Czech University of Life Sciences Prague

Faculty of Economics and Management

Department of Information Engineering

Diploma Thesis

Website of Plywood and Hardware Company

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CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE

Faculty of Economics and Management

DIPLOMA THESIS ASSIGNMENT

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Systems Engineering and Informatics
Informatics

Thesis title

Website of a plywood and hardware company

Objectives of thesis

The goal of thesis is to analyse business requirements, design, software design and prototype implementation and testing the web-based information system for a middle-size hardware and plywood company producing furniture and equipment for offices, hospitals and individual home living. The information system will have different access levels to the users. The first most basic level without need of any registration and payment will provide general info for public, next levels will have additional personalised servises.

Methodology

Software engineering standards, first of all UML and WebML modeling languages, will be applied and followed. There will be also used the platform MySQL and PHP, but without any web-CMS framework for security reasons. The final system will be analysed, implemented and pilot-tested. The last part of thesis will be a short user manual.

The proposed extent of the thesis

60 – 100 pages

Keywords

PHP, MySQL, UML, WebML, plywood and hardware industry

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Recommended informa on sources

GRANADA, David et al. Analysing the cogni ve effec veness of the WebML visual nota on. So ware & Systems Modeling. 2017, vol. 16, no. 1, s. 195-227. ISSN 1619-1366.

MASON, David. UML for Database Design200310Eric J. Naiburg and Robert A. Maksimchuk. UML for Database Design. Boston, MA: Addison-Wesley 2002. 300 pp. , ISBN: 0201721635 US$39.99 (paperback). Online Informa on Review. 2003, vol. 27, no. 1, s. 66-67. ISSN 1468-4527

ZHU, Hai Yan a Xin Ping ZHAO. Chinese Garbled Studies with PHP and MySQL Pla orm. Advanced Materials Research. 2014, vol. 926-930, s. 2225-2227. ISSN 1022-6680;1662-8985;.

Declaration

I declare that I have worked on my diploma thesis titled "Website of Plywood and Hardware Company" by myself and I have used only the sources mentioned at the end of the thesis. As the author of the diploma thesis, I declare that the thesis does not break any copyrights.

In Prague on date 31.03.2021

Signature Meet Thakkar

Acknowledgement

This thesis would not have been possible without the contribution of the following:

Firstly, university has been a tremendous support system. The resource in terms of knowledge, exposure as well as the ambience gave me wonderful insight to level into the topic.

I would like to express my deepest gratitude and thanks to my Thesis Supervisor doc. Ing. Vojtěch Merunka (Ph.D.), Head Of Department Ing. Martin Pelikán (Ph.D.) and Ing. Martin Pelikán (Ph.D.) for their wonderful encouragement and tremendous insights given which enriched my results. Their motivation, patience, immense knowledge and guidance have helped me during the entire research and writing of this thesis.

The largest and most effective contributor came in terms of the books available in library, which helped me quotes terms, issues, strategies, and case studies which were most apt to the relevant topic discussed. The internet, Google proved itself just next to god again. I thank my search engine to help me optimize research and study.

Last but not the least, I would like to thank my family who have always believed in me and have been always there for me.

Thank you all.

Website of plywood and Hardware Company

Abstract

In the past decade, Internet use has expanded immensely and very easily. For Several companies and associations, websites have been the most significant public relations medium. By 2014 the Internet users were 87% of adults of 18 years of age or older. Since communications between companies and customers are largely online, website architecture is important for users to participate (Rubab et al. 2018). Poorly built websites will thwart visitors and contribute to a high "bounce rate," or people who visit the entry site are unable to explore other sections. On the other side, it has been noticed that a well-built website with high usability has a positive impact on user retention (revisit rates) and on buying results.

There is little agreement at the present time as to how to run and test website usability properly. Nielson, for example, blends learnability, performance, memorability, error and satisfaction with usability. Download time, navigation, information, interactivity and responsiveness decide usability. As with accessibility there are also no specific descriptions of certain other main concept products including scan ability, legibility and graphic aesthetics and no clear rules to be adopted by individuals when creating websites to enhance participation.

Web překližkové a hardwarové společnosti

Abstrakt

V posledním desetiletí se používání internetu nesmírně a velmi snadno rozšířilo. Pro několik společností a sdružení byly webové stránky nejvýznamnějším médiem pro styk s veřejností. Do roku 2014 bylo uživateli internetu 87% dospělých ve věku 18 let nebo starších. Protože komunikace mezi společnostmi a zákazníky probíhá převážně online, je pro účast uživatelů důležitá architektura webových stránek (Rubab et al. 2018). Špatně postavené webové stránky zmaří návštěvníky a přispějí k vysoké „míře okamžitého opuštění", jinak lidé, kteří navštíví vstupní web, nebudou moci prozkoumat další sekce. Na druhé straně bylo zjištěno, že dobře vytvořený web s vysokou použitelností má pozitivní dopad na udržení uživatelů (míry revizí) a na výsledky nákupu.

V současné době panuje malá shoda ohledně toho, jak správně spustit a otestovat použitelnost webových stránek. Například Nielson spojuje učenost, výkon, zapamatovatelnost, chyby a spokojenost s použitelností. O použitelnosti rozhoduje čas, navigace, informace, interaktivita a reakce. Stejně jako u přístupnosti neexistují ani žádné konkrétní popisy některých dalších hlavních koncepčních produktů, včetně schopnosti skenování, čitelnosti a grafické estetiky, ani žádná jasná pravidla, která by jednotlivci měli přijmout při vytváření webových stránek za účelem zvýšení účasti.

Klíčová slova: PHP, MySQL, UML, WebML, překližkový a hardwarový průmysl

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Introduction

Most people use the Internet to check the goods or services. By getting a website the businesses will make their company credible. If the businesses already have a website, it will give their organization a professional profile, which will encourage yet more customers. A web platform will allow the current and prospective clients to check the goods and services while the shop or office is locked. The Web site offers an alternative place to market the goods or services. The website is a fantastic way to promote the goods to a larger public and it may also provide services worldwide.

The customer must appreciate simple navigation when it comes to a good web portal. In essence, it should be simple to navigate the details presented on the website. Therefore, the pages are supposed to be easy to load. The website of a plywood and hardware company would subsequently provide more navigational assistance (Rubab et al. 2018). This involves the search box being used. In this scenario, users will type in the search tool and easily go to the location. The website of a developer achieves this through outstanding web design. In addition to improving the website, it is advisable to test the sites periodically for comfort. This eliminates or resolves glitches that allow the fast loading of web pages more challenging. If a website has strong navigation skills, more organic traffic is guaranteed.

Optimization of the search engine has been a crucial feature of the internet. Search engines had to introduce a way to list sites, when millions of websites challenged the top of search engine results pages (SERPs). Well, by improving site and design, you reach a higher rating. Parameters like: title tags, keyword use, picture optimization, and linking are considered in this sense. This ensures that the platform complies with the highest quality. In addition to the platform, webmasters will hold the visitors they need so much. This demands that the site developer have functionality such as "call-to-action." It also implies that the pages must be simplistic. You hear about the planned load speeds subsequently. This optimization allows it possible for the website to display various questions. This means that the page receives more hits.

The reality is that it may be cumbersome to market abstract goods and services. This is difficult if an organization has just loads of text about its specialization. Here, the

production of the website spices up stuff. The company owner may pick the photographs to use by consulting a skilled web designer (Hasibuan et al. 2020). The organization has the right to pick the amount of videos and photos for advertisements. This is motivated by search engine optimization. The benefit of utilizing visual materials is that the consumers have a simple description of the object. Not all consumers clearly comprehend text-based systems or goods. Thus it is convenient to get your message home by including photographs.

Furthermore, it is easy to grab reading interest by utilizing photographs on the web. Users are also interested in the illustration before reading the letter. This raises the likelihood of more people visiting the website. However, webmasters are urged to discourage graphic details from being packed. This is because it makes interpreting challenging for the individual. It also reduces the search engine optimization website score. The usage of imagery can also be moderated. The amount of transactions generated is a vital aspect of company success. Well, designing a website will help an organization generate further revenue efficiently. Statista forecasts the rise in e-commerce operations by 21.3% by 2019. This suggests that website purchases draw more customers.

Today, more company owners are eagerly participating in online purchases. They saw the wonderful potential to take advantage of internet purchases. The growth in revenue correlates with the rising amount of clients. Webmasters are advised to provide changes in order to help boost purchases. The website features are smoothed by patches and enhancements. It also tells consumers that the brand offers outstanding facilities and knowledge. The inclusion of advertisements is indeed a boost in revenue. Here you can build the requisite fuzz between users. This would replicate more revenue. In addition, consumers believe they can purchase cheap goods from the brand. Therefore, all website operations create value in one way or another for the organization.

With the business aspiring to extend and develop, faithful clients are fundamental. However, particularly if the entrepreneur uses bad strategies to accomplish this can be a challenging challenge. It is here that the website is planned and created. Webmasters will track the behaviors of users using the measurements collected from the web. The consumers who have been constantly endorsing the company can be illustrated here. The company owner should use innovative forms to attract those clients after assessing them.

The incentive for gift vouchers and awards is a creative choice. This would undoubtedly give them an incentive to access the goods or services. Note, the company maintains that no faithful client is refused via the platform. Another exciting part for consumers during their lives is that they will sell the company. And they operate with the organization implicitly (Hasibuan et al. 2020). It lowers promotion expenses as well. One of the key purposes of starting up a business is to expand as a client. Ok, this can be done in a variety of forms, but each with varying effects. There are several significant achievements when it comes to web creation and design.

The first is that it offers the brand name. The business is essentially on a multinational forum as the website is open on the Worldwide Domain. This makes it easier to study and distribute merchandise to distant consumers for the little-known firm (Rubab et al. 2018). These programs help and the gap between the operations for consumers. Other choices, including buying or ordering a product on the web, are accessible here. The organization still also retains contact with consumers at the local level.

In a brick and mortar system, a corporation was usually host. Yet things have shifted with more streaming services. This is why it helps entrepreneurs to create outstanding websites. It is very easy to keep a successful partnership with the end consumer on this site. This involves reviews on the offered programs and goods. You will then communicate with them and provide crucial answers to questions. Furthermore, the period of operation is not limited. Customers are promised 24 hours a day through the automation of facilities on the platform. The blog or site owner will still keep consumers updated even under consumer interaction. For example, as new prices are added, consumers are among the first to hear about them.

Products and services are important for the growth of start-ups. That said, when selling the item, marketing campaigns are beneficial. An organization will view all related details through this online portal. This involves the offered products/services, place, pricing, credibility and contacts. The webmaster will render enticing deals easily on the website. Interestingly, you can update fantastic sales and deals on the platform faster (Hasibuan et al. 2020). There is also no downtime to wait for the ad. The same happens whether the organization needs to download or promote a blog entry. It is critical that the brand identity is clear as you show the company's website. This is achieved by the creation of

blogs and web design. In this scenario, the webmaster establishes a special brand identity featured in all search engines. There is no distinction, unless the website is on Bing or Google.

In addition, the emblem and name of the brand are all identical. The risks of confusion with other competing labels are also minimized. The dilemma of continuity is also tricky. The organization is supposed to keep track of its customers continuously. The webmaster can ensure that the required protocol is followed in case of rebranding. Once this is taken into consideration, the search engines refresh the records immediately. Thus the correct item gets access as consumers look for the brand. The website will also help to warn consumers of updates. The business will even chip in the website and it uses such tactics such as social networking.

Business requirements of plywood and Hardware Company

Plywood and hardware is undeniably one of the strongest small business concepts. However, the first move is to figure out if it's a good fit to start such a small company. While an effective plywood and hardware produces an overall net profit of its regular profits of 10 %, 80 % of those who take part in the company would close in fewer than 2 years because of losses and issues with cash flow. Furthermore, for purposes of low entry obstacles, the plywood and hardware is challenged by rivalry. Yet, at the same time, the potential of the firm seems really rewarding and sustainable as the entrepreneurs look at the history and current developments.

The entrepreneurs must create a catalogue of products typically available in the environment in a plywood and hardware. This form of shop usually offers hardware such as hand and machine tools, construction equipment, clamps, keys, hinges, links, supplies of energy, supplies for plumbing, cleaning items, kitchen appliances, utensils, paint and more. The entrepreneurs must know the competition before they allocate resources to the plywood and hardware. First and foremost, locate the area where the stores have less competition and reasonable hardware demands (Rubab et al. 2018). Secondly, the entrepreneurs ought to be mindful of the industry's recent developments and price ruling. In order to do business, it is necessary to give clients various methods of paying you as a

few clients will easily use credit terms. You could piss them off if you're adamant about your payment conditions.

The biggest expectation of plywood and hardware is local consumers. There are also many forms to promote this kind of shop, including banners, Yellow Page posters, flyers and mail to a current customer list. Since this is quite a capital-intensive industry, the entrepreneurs will also have to invest in rapidly moving goods in order to be better (Zhu & Zhao, 2014). There are concrete, rods and steel beams, screws, white cement, door hinges, nails for the roof, flow tiles, rods for welding, stuff for plumbing. Give discounts on essential goods like asphalt, steel bars and iron sheets and revert income from smaller things like door handles, hooks, sandpaper and jersey (Hasibuan et al. 2020). Never err on widely used goods such as cement and steel bars by overloading consumers. Enable the trustworthy customers to position the orders via Smartphone, deliver them free of charge to the building site and pay you in the afternoon. If customers are happy, they will return and suggest their connections to your company. Ensure that in one of the rival outlets, they do not have to go look for something else. The entrepreneurs must speak to the vendors to make use of products which might be on order, but which are missing as soon as possible from the store.

2. Literature review

2.1 Software design and prototype implementation

Prototype Model is a model for software creation that constructs, checks and processes designs before an appropriate prototype has been achieved. It provides a foundation for producing the final device or program (Granada et al. 2017). It is best utilized in situations in which the specifications of the project are not well understood. It is an iterative, test and error process between creator and user.

The following six steps are presented in the Prototyping Model:

Step 1: Selection and review of specifications

An overview of specifications begins with a prototyping model. The device specifications are described in depth during this process. The customers of the device will be questioned during the review to understand what the system expects.

Step 2: Efficient Design

The second process consists of a preliminary plan. A basic device design is developed at this point. It's not a whole style, though. It offers the consumer a quick image of the device. The easy design helps in the prototype creation.

Step 3: Create a Prototype

A prototype based on the information obtained from a fast design is built during this point. The requested device has a limited working model.

Step 4: consumer assessment

The proposed framework is introduced to the consumer for initial review at this point. It helps to explore how solid and fragile the working paradigm is. The consumer gathers and provides the creator with comment and advice.

Step 5: Prototype refinement

If the consumer isn't satisfied with the existing version, the user reviews and advice could improve the prototype (Hasibuan et al. 2020). This stage would not stop unless the

consumer fulfils all the criteria. Once the consumer is pleased with the prototype, a final system centred on the approved final prototype is created.

Step 6: Product deployment and maintenance

The final device is carefully checked and used for the manufacturing after implementation on the basis of the final prototype. Routine maintenance is done to reduce downtime and eliminate significant failures.

2.2 Rapid Throwaway prototypes

Rapid throwback is focused on the first case. It is fast developed to illustrate the visual appearance of the specifications. The consumer input tends to adjust the criteria, and once the requirement is base lined, the prototype is produced again (Rubab et al. 2018). This approach excludes the developed prototype and does not form part of the prototype eventually adopted. This approach allows us to discuss solutions and to gain direct input on consumer needs.

2.3 Evolutionary Prototyping

The prototype built here is gradually modified on the basis of input from customers until it is eventually approved. It lets you save both time and effort. This is because it can be very frustrating to create a concept from scratch with any interaction in the process (Hasibuan et al. 2020). This model is valuable for a project that utilizes a not well known emerging technology. It is often used for a complicated project in which every element needs to be tracked once. When the need is not secure or not well known at the initial level, it is useful.

2.4 Incremental Prototyping

The final product is decimated in gradual prototyping into separate small prototypes and independently created. The multiple designs are finally integrated into one common product (Zhu & Zhao, 2014). The feedback time between the customer and the application development team is minimized with this process.

Extreme Prototyping:

Often for web creation, an intense prototyping approach is used. There are three consecutive stages.

- HTML format is available as a standard template of all current sites.
- Using a prototype services layer, you can simulate data operation.
- They are carried out and incorporated in the final prototype.

Prototyping quality practices

Here are few items to be looked at during the process of prototyping:

- If the specifications are vague, you can use Prototyping
- Planned and regulated prototyping is critical.
- Daily meetings are necessary to sustain the project on budget to prevent expensive delays.
- The prototype challenges and drawbacks should be identified to consumers and designers.
- In the early stages, the prototype must be accepted and only then will the team progress to the next level.
- You should never be frightened of adjusting earlier choices by utilizing a tech prototype system if fresh concepts are required.
- For each edition, you can choose the acceptable phase scale.
- Implement critical features early enough that you already have a valuable device if you run out of time.

2.5 The prototyping model benefits

The advantages of using prototyping models are:

- Users regularly engage in the production process. In the initial stage of the software development phase mistakes may also be observed (Firdaus et al. 2020). Failure to define features that can minimize the probability of errors as prototyping is often used as an activity for mitigating risk.

- Assists team member in successful coordination
- Satisfaction with consumers persists since the consumer will experience the goods quite early.
- Computer rejection is barely necessary.
- Quicker customer reviews can help you build improved apps.
- Permits the user to compare whether the software code meets the software specifications.
- This allows you to figure out what aspects the device lacks.
- The complicated or challenging tasks are defined as well.
- Fosters flexible architecture and creativity.
- It's a basic model, so it can be quickly understood.
- No specialist specialists required to improve the model
- The prototype acts as the basis for a specification of the system.
- The prototype allows considering more the expectations of the consumer.
- You may alter and even reverse the designs.
- The foundation of operating criteria is indeed a prototype.

The key limitations of the prototyping approach are here:
- Prototyping is a slow method that requires time.
- In the case that it is eventually tossed away the expenses of creating a prototype are utter wastes.
- Excessive call for improvement may be facilitated by prototyping.
- Often consumers may not be able to engage for prolonged stretches in the iteration stage.
- When a prototype is tested by the consumer, there could be just too many differences in software specifications.
- Bad reporting due to evolving consumer needs.
- Software engineers find it quite challenging to handle all the improvements that consumers expect.

- Once you have seen an early concept product, you can hope to be shipped to the consumer shortly.
- If the consumer is not pleased with the original version, they may lose confidence in the finished model.
- Developers who wish to install prototypes rapidly can inevitably produce sub-standard solutions for production.

2.6 Web development

When people say "web development" or "webdev," they mean web design and development. However, the majority of web designers are involved in the design and development of websites. You simply create the design of the website design and the web application yourself and leave the coding of the website to the developers of the front end and the back end (Hasibuan et al. 2020). Web developers, on the other hand, take web page designs and actually make them work. Compared to web designers, web developers focus on the function of a website application and need to know how to program.

While the client side focuses on adding styles and functionality to the site itself, a kind of developer is focused on setting up the back-end of the site for backend developers. Full-stack developers are the unique type of developer, because they can program and work on the front end and back end of a website application as well as on the web application itself (Rubab et al. 2018). You can work with different types of websites, such as web applications, mobile apps, websites and mobile applications.

A web developer constructs the layout of a website by creating the front and back of the website, such as the design, layout, navigation and other aspects. They sometimes write the content for the website, but usually they do it all by hand.

A frontend developer takes over the visual design and builds on it, providing the code to be used, typically in computer languages such as HTML, CSS and JavaScript. A frontend developer is responsible for bringing the vision of the web designer to life with code. You provide the front and back of the website, such as design, layout, navigation and other aspects, and are responsible for providing the content to them (Firdaus et al. 2020). If you

are already familiar with these languages, you can use them and you will be a decent web developer in the frontend. For beginners, however, I would suggest learning JavaScript, HTML / CSS, jQuery, etc. before the end application.

However, every web developer should be able to use HTML / CSS and JavaScript, so start learning all three before the end of the application.

As mentioned above, most web developers use a programming language like Java or HTML and use it to build the components of a website (Granada et al. 2017). Both front and back - the end developers must learn different languages, while the full developers must speak both languages. Many backend developers know the basics of Java, JavaScript, CSS and JavaScript, as well as Ruby on Rails, but they need the ability to use Rubin to do the "backend job."

Hypertext Markup Language (HTML for short) is a language used to specify the structure and layout of a web page. HTML, or Hyper textMarkups Language, is used as a programming language to define the format and layout of web pages.

It is used by front-end developers to cascade style sheets, as well as by web designers and web architects. There are many people who know the basics of HTML like HTML5, CSS and CSS3, but not so much about HTML.

There is front-end development, which is also called client-side development, and there is back-end development, also called server-side development. There are two types of web development: front end and backend, and both vary greatly in language, design and development process.

When a website's information is transferred from the server to the browser, the frontend encoding language allows the website to function without having to communicate with the Internet all the time. The HTML, CSS and JavaScript of the page are sent to a web browser where they are analyzed and displayed to the users (Rubab et al. 2018). While web development focuses on creating web pages by writing code, programming and other development methods, web design focuses on using web pages to design software. Web designs are geared to what the user sees, while web development determines the code

that makes the web pages tick. A web page can be rendered in several ways, such as HTML / CSS / JavaScript, JavaScript and CSS.

Languages are the building blocks that programmers use to create websites, applications, and software in the world of web creation. To create web pages and web applications, web developers use programming languages (think HTML, CSS, JavaScript, Python, etc.) to create the website or web application. In large organizations and companies, a web development team can consist of hundreds of people, each web developer, and they follow the standard methods of Agile Methodology to develop websites (Firdaus et al. 2020). Just like the development of front-end websites, the development of back-end websites has its own code languages, which are at the core of the backend capabilities.

This includes the development of web pages (commonly referred to as "tasks") and web applications, as well as front and back-end programming languages.

2.7 Process of Website Development:

A website development process has been divided in many stages, Not only Creating the main structure of the website by HTML, then Decorating it by CSS making a live interactive website by JS, then linking the server by PHP, Python. Creating the web site frame work by Django or Flask But also many previous stages are present and also many more post stages are present.

Information Gathering about the Website:

Once developers have the information, they need for the information phase, they can put together a strategy for creating the website. Use the information gathered in the first phase to create a plan for a website, and then the second phase of gathering information.

A good content plan increases the visibility and usability of your website, but high quality web design is much more than building a website. Whether you are developing your own website or hiring a professional web developer, you should develop a page template for your new website during the information phase (Granada et al. 2017). Once you have developed a successful online presence, you can demonstrate the benefits of a good

website design plan and a strong content planning plan. Maybe you use a web design template or social media to develop a new business website. You need to take your time and gather information to develop a good idea for the design and development of your website, web application or mobile app. From gathering information to creating content and updating the website, the web design process involves many steps that can be divided into simple and manageable phases. Before you hire a web designer, ask yourself whether your website sells products or services or is just there to provide information.

Collecting information about your business is necessary to ensure that your web design is on the right track. The process of web development begins with the collection of information to gather essential details about the audience and objectives of the website. This is the information web developers need to understand to plan, analyze and develop the web and to provide domain information to their users.

A web developer or programr is someone who turns a web design created by a customer or design team into a website. It is their job to take over the design and develop it as a living, fully functional website, and they create the code that will translate the concept of the designer into the website and bring it to people. Simply put, web development involves the development of a private network, also known as an intranet. Web developers take a design concept and create a code that is used to turn it into a website and bring it to people, as well as to develop the web application.

Planning the Website

This is a proven web site planning process that the Evolve team is following as they prepare a new web site project. Setting up the software required to build the website at this stage will help you save time before you start developing. If you are working on a redesign or rebuilding your new website from scratch, you should incorporate the steps below into your website planning process.

Now that you know why planning is so important, we'll break down how you can create a project plan for your website design. A site map is essentially a list of all the pages you want to put on the site, as well as the layout of your site. Planning your sitemap before

working on website designs has several advantages, because your design can build the most important pages, you can plan website navigation more efficiently and get to the content that still needs to be written. It also means that most of the time and money you spend on a website will go towards design, rather than a web developer physically going through each page of your website and carefully ensuring that websites do not have to be built this way.

It is the responsibility of the web designer to create a prototype (s) of your website and to plan the layout and layout of each page.

Before a website developer can write a single line of code, he must know the goals and expectations of the website and have a detailed plan and sitemap. You want to have a clear idea of how easy it is to do tasks on your website and what your goals are in designing the websites and solutions that people will actually use.

During the design and development process of the website, it is important to visualize who wants to visit your website and what it likes about it.

A good web design workflow can help you achieve this by helping you plan and implement important steps of the website (Rubab et al. 2018). It is a set of processes that cover all the steps required to create a website, and more importantly, it is important to have a clear plan for website design before you create it. The rationality of creating your website is important, but planning the content before designing it is just as important as planning other aspects of your website.

Designing Process of Website:

Just like information gathering, the planning stage of website design is a crucial part of the introduction of a new website. Similar to building a house, the sketch of a building plan for the structure of the website development is the necessary step in the development process. When you are commissioned to design and develop a website, the first step in our understanding is to develop building plans for the architecture and navigation of websites (Granada et al. 2017). After strategy development, the next step during the web

development process is the development of planned work on the design, design, navigation and other technical specifications of the site.

In the initial phase, the customer also has the opportunity to help the web design company with quality assurance and testing of the website to see what kind of user experience it offers. Testing a website is a crucial step in the process of web design and must be done simultaneously with development. The programming phase of website development is responsible for developing the source code that makes the websites live, dynamic and interactive.

Web design consists of numerous components that work together to create the finished experience of a website, including the design of the content of the website, the content management system (CMS), the user interface (UI) and the user experience (UX). Web designers must always start by taking into account the objectives of the customer's website and then move on to the Information Architecture (IA) to establish the information hierarchy of the websites and guide the design process. The term "web design" is usually used to describe design processes associated with the development of web pages and web applications, including writing markup. Finally, you need to determine which part of the web design process falls under the web design team and which parts require little or no homework for your brand.

Designers need to understand what kind of website they are designing for, which means that your business needs and the types of consumers your website is targeting can vary widely. Professionals are well aware of how a website can handle a certain amount of traffic, as well as the demands of a certain audience.

In other words, it is very important to make sure web designers know what they are doing and understand how your website compares to other websites in the same industry. If you are a good web designer, you will be careful when building your website. To determine the various elements that make up a good UX in a web design, understand the meaning of the user experience and adapt the website accordingly. To ensure that a website is UX-optimized, you might want to use the best design tools such as CSS, JavaScript, CSS3, HTML5 and CSS4.

With a comprehensive portfolio of web development services, Svitla Systems focuses on providing high quality web design and web site design services to web developers. We focus on helping you achieve your customer's vision of specifications.

Whether you design a website for yourself or for a customer, the process of designing and developing a website is the same. The majority of web designers, on the other hand, work on website design and creation. . Web developers, in turn, take over the website designs and actually make it a functioning website. Website development consultants are different from website developers and programmers who actually do their job - but most web developers do not do coding for developing the web pages.

It is important that web designers start asking a lot of questions to help them understand the business needs for a website. During the construction process, it is advisable that you are aware of what your business entails. As part of your own website design process, these questions help designers create a website that works more efficiently for your customers.

If you want your business to succeed in the hyper-competitive digital world, you need to pay attention to the design of your website. In today's environment it is almost impossible for companies to create good websites, but here comes web design and web development. Every step of the website design process is important and we can stress the importance of developing website wireframes. Just as you would not build a house without a foundation, we recommend you build the wireframe of your website.

When well executed, the best website development process helps you create any type of website, not only for your business, but also for other companies.

Prototyping of Website:

The best idea is to create a clickable prototype that helps the customer feel the site before development begins. Once the prototype is created and released, the graphic designer uses it as a model and creates a web page design. At this point, our web designers will take the individual graphic elements of this prototype and use them to create the actual functional website. In the initial phase, our customers will also have the opportunity to take a first look at our website and help the web design company with quality assurance and testing

of our websites to see what kind of user experience they will experience and what types of websites they will offer (Granada et al. 2017).

Once the customer has approved the prototype, the next step will be construction of the construction site. Once the prototype of the website has been approved by our customer, we can start working on the design.

A prototype of a website essentially allows project participants to see what the final product will look like at the beginning of the project life cycle (MASON, 2002). Instead of designers and developers working alone, workshops are held in which everyone comes together to develop a working prototype of the design of a website.

A website prototype can consist of a fully functional digital model based on where the website is in its development cycle. It can be a preview of what the site will look like when it goes live, or even a prototype of the final product.

The most popular method of prototyping is digital prototypes, which are often much simpler to create than HTML prototypes. You are able to test most of the elements of the user interface, and you do not have to buy software to develop a prototype. HTML prototype lets you skip a step in the process, but it is much more expensive than digital prototypes due to the fact that you need to test it.

Knowing how to create wireframes and prototypes and use them to gather feedback from users and shareholders is a key component of web design. Interface design and app prototyping tools help designers imagine and communicate what websites will look like and behave like before they are launched (Rubab et al. 2018). With HotGloo you can develop prototypes or wireframes for the web and mobile so you can easily visualize your website content.

The web design process is a documented overview of the steps your team needs to take to develop a website from start to finish. In short, before you start designing and creating your website, it is highly recommended that you and the team develop it at every step in advance.

The web design workflow is a series of processes that encompass all the steps required to create a website. It is an overview of the entire process from start to finish, from design to launch and from development to release.

It is likely that you are using a prototype to plan your website, perhaps you are using social media to develop a new business website, or you are working with a bespoke web design agency. If this is the case, look for graphic design software that can help you build assets for the website. Although different website projects have different functions, the team can follow a similar web design process to create them. Maybe you use web design templates or work in a design studio or web development studio.

2.8 Coding:

The Coding part is divided into two parts, Front end Development (Coding of the designing process) and Backend Development (Coding of Framework and Database linking).

Front End Development of Website:

It is impossible to find a job in the end-user field without knowing a little about the basics of HTML, CSS, JavaScript and other programming languages. Let us delve deeper into the programming language you will learn and what you can expect from it, as well as what programming schools teach you. Web development is based on the website's features, which are informed by the user interface, the layout of the website and the design of its components. A frontend developer needs to know all this to create a dynamic and modern website.

A frontend code is when a developer, programmer, or web programmer writes code that tells the browser how to interpret the page design, typically in HTML or CSS. A frontend developer reads the design file and creates the code needed to convert it into valid HTML, CSS, and JavaScript code (MASON, 2002). He ensures that the designs work online by using this code in his own code as well as in the HTML and CSS files.

Front-end program developers use HTML to design the general structure and content of the document, and CSS for situations that require advanced interactivity. Backend web

development involves developing the language used by various front-end frameworks. It can be as simple or as complex as backend development, which is largely powered by JavaScript, the programming language of choice for most frontends and web developers who use JavaScript. Because these languages exist in the browser, frontend developers can focus on understanding HTML, CSS and JavaScript in a variety of ways.

Front-end development, sometimes referred to as client-side development, is web design that performs the design of a website for web users to see and interact with. Web development generally refers to the development of websites that use design and software, including the programming, mark-up and scripting languages used to create features and functionality. While web development focuses on creating web pages by writing code, programming and other development methods, web design focuses on using web pages as design software.

Back End Development of Website:

We understand how web frameworks can simplify the development and maintenance of server side code, and we can get readers to think about choosing a framework for their own development. To refine frameworks, a web framework is a software framework designed for developing web applications and has the ability to have multiple levels of support for different types of web applications such as HTML, CSS, JavaScript and HTML5.

This framework is a comprehensive PHP framework and the only framework that fully follows PHP standards for the web. With the flexibility of PHP, this framework provides a platform structure that allows you to develop web applications with multiple levels of support for HTML, CSS, JavaScript and HTML5. A small web application necessarily requires a complete PHP framework stack, but it is extensive for PHP frameworks (MASON, 2002).

The tools used in the back-end area of web application development in the PHP framework in W play an important role in building efficient and secure apps and networks. This framework was developed and designed with the support of the most popular PHP frameworks such as PHP, PHP5 and PHP6. Access to the database is made

possible by the use of a web server and a database management system (DBMS) in this context.

There are several languages used for backend development, such as Java, Python, PHP, Ruby, C, JavaScript, JavaScript and Ruby on Rails. Back-end developers also work with software stacks that include the most common web application frameworks such as Apache, Apache 2.0, MySQL, SQL Server and API Management System.

Java developers have more options in terms of web development frameworks, but it could be faster and more accurate to build web applications with a PHP framework. PHP frameworks provide well-organized and reusable code that can help make the web application running in the framework easily scalable. Learn and understand the core of PHP But you need to grow with time and learn new features such as using different languages, frameworks and back-end development tools. Once you have learned and understood core PHP, you can work with any of the existing frameworks, such as Apache, Apache 2.0, MySQL, SQL Server and API Management System.

Once you have familiarized yourself with all kinds of frameworks and architectures, it is up to you to decide which one is right for your web application. The features required for your application, such as the user interface, interface, data structures, and other functions, depend on the backend framework you write and the various features it has.

Backend web frameworks consist of a language and tools used for server-side programming in a web application development environment. To support the development of such web applications with API's, we use software frameworks known as "Web Application Frameworks."

PHP contains several precise features and outstanding features that enable PHP developers to create database-based pages. Since the backend of the PHP programming language holds all components of the front end together, it facilitates easy navigation and helps web applications to look stunning.

This makes Symfony one of the most popular back-end development frameworks in the world, with support for the system growing rapidly. The best choice for backend

development whizzes, which are partly based on the PHP backend of web applications and web application development, will be Symfonybebed.

PHP has been designed for programming various web applications since its inception. Back is a back-end development framework known for bundling applications, including tools created by Google Sitemap? There is an open source cross-platform version of the framework that allows a seamless connection between the backend and the front end.

In the past, when frontend development was under way, developers sought help from PHP scripts, but with the introduction of Angle and JavaScript, the entire frontend development process became hassle-free and much easier. Recently, Belitsoft's PHP department developed an uploaded PHP-based website, and we wanted to share some of the techniques that have allowed us to speed up our website, and that have been developed using the following languages, technologies and tools. Core PHP is tailor-made, making it a good choice for web development projects. We have created a simple 10 page web page using the Micro Framework Slim Sitex from PHP, with a single page and a few lines of code.

Web developers and designers around the world consider it one of the best and most powerful web development tools available today, offering a wide range of features and capabilities.

Python has a small number of frameworks, but there are only a few that are named after it, which allows for fast and effective setup in a flexible environment. PHP users have access to a mature framework, and Node is perhaps the best choice for those who need an innovative web development solution. There are a lot of different frameworks on the market today that offer a wide range of possibilities.

2.9 Content Writing in Website:

Website design and websites has become a showcase for successful business and therefore creative website designers are still in demand. A solid web content strategy is critical in today's digital world, where high-quality content drives the exploration of new

perspectives. Any redesign should be done with content - first approach and content are the reason why people visit your website.

In addition to these perspectives, you should create website content that is tailored to the specific needs of your target audience and not just the general public. With a solid strategy, the content on your website has a specific purpose and target audience. Remember that you have more than one target audience and the site should have content that will suit each of them.

If you know what you need to produce, you are all better placed to write a copy that will help you achieve these goals. When you think about how you write your website content, make sure that the copy on each page serves its purpose.

Content should contain certain business-related terms that Internet users can use to search for your services and products that are aimed at improving your website's SEO. So before you write content for each website, use SEO best practices that help you put your site above the most important keywords. Read on to go through Keyword Discovery, select your primary keywords, and learn more about how to write content for a website

Not only will content help people find your site, but the quality and relevance of your content will make your visitors stay and switch to your site. Know what your audience is interested in You know what elements you need to add to the content of the site to keep it active on your sites. The effort you put into designing and writing website content will increase the likelihood that visitors can be sure that they have found the information they need. Rather than cramming content into a complicated website, you'll find the process simpler and more successful if you spend the time to create content that works and helps your company achieve its objectives.

If you have never written anything, or if you want to know more about writing content for your business or how to become a freelance author, here are some special tips for beginners. Hopefully this video has given you at least a basic understanding of how content is written and how you write it. Try sharing it on Facebook or Instagram to increase your reach and talk about how I started writing content.

Writing content also involves editing, capturing headlines, writing fresh text and compiling existing text, all of which takes time and effort. This phase of writing content also involves capturing headlines and writing new texts, as well as compiling existing texts, all of which costs time, effort and money.

To outline the entire development process, you can create a timeline for developing a website. Set milestones for the project, add tasks and complete those tasks, and so on until you have set all the milestones in your project.

If you do not have an in-house web development team, it can be difficult to update your website. If you haven't touched the content of the site for a while, it may be due for an update. Mark this list with content that includes writing tips and keep it handy every time you create content for the Web. When you go through the content of a website - write - make sure you know how the pages work together.

You may have many components that are built simultaneously, or you may have to build them all at the same time. A website designer creates and builds the website, while a copywriter prepares the text and a graphic designer designs the eye - gaudy images.

Writing and compiling content includes creating key messages, calling for action, porting content to an existing website, writing new text, editing the text and creating headings, page titles, captions and texts for SEO purposes (heading, description, tags, etc.). Writing or compiling content usually overlaps with other stages of website creation, but its role is not to be underestimated.

2.10 Testing and Launch of Website:

During this phase, the foundations for the website are laid, including domain name registration, development and acquisition of custom code, integration of external applications, development of HTML pages, purchase of routers and servers, etc. At this stage of a website development cycle, developers create data that allows customers to assess how the entire site will look. However, the development, testing and training

environment is already being subjected to at least a partial test load. This data is reviewed by a team of web design, design review and testing experts.

The testing process should begin as soon as you decide to create a new website so that you can use the insights from studying the current website while you create the new one. The readability test is performed before new content is added to the site, and again after launch.

During the QA process, the modified website is thoroughly tested to find and correct errors that were overlooked during the first phase of development. In addition, you will check the source code of the website to find and correct any issues that you may have missed in the code. You should have several rounds of QAs in your quality assurance process on your website because it is the preventive medicine against nasty bugs.

Finally, you can also set up a local installation where we can test the changes we want. Check out our pre-installed website to see where on the page we used minify so it can minimize and go through the website introduction. Make sure you run the PPC campaign you set up - and set it up to be ready for the website launches as we start it.

Performing thorough quality assurance tests during the mobile app development process makes your application stable, usable and secure. An effective test program, which includes automation and software testing, includes both. Google's developer website is reviewing how to curb fraudulent advertising revenue through automated app testing. When you develop new software that is usable, the development and testing requirements must be in depth.

Teams conduct the testing and real-time monitoring and guide their Agile Development Model do the work - in a staging environment - and typically automatically implement approved changes from the trunk branch to production. The tests are conducted on a separate platform that uses test management tools and servers during development, while the tests and completion of the test environment would then pass some form of system testing and user acceptance testing. This is not the same as a user acceptance test, as the focus is completely different and so is the number of tests that are conducted at each stage of app development.

To get the development done as quickly as possible, using agile principles, it is important to mix the testing phase with the development phase properly. To outline the entire development process, you can create a timeline for developing a website.

Verification and validation is an important test activity that collectively defines the mandatory testing activities that testers and the entire team must perform when developing a website for an organization or a customer. Verification tests are a must - follow procedures when testing your web pages for cross-browser compatibility. This is the first step to ensure that your website or web app is created in the best possible way for their user experience. All website tests check whether the interaction between app server and web server is running smoothly.

2.11 Maintenance of Website

There are a number of things that require the attention of website owners and website developers before the start of the website development process. You can limit yourself to building a website, which is very important, but before you assign tasks you should look at the benefits of maintaining your website and get a better understanding of why it is important for you to maintain your website.

As trends in digital web design are constantly changing, you need to keep UX and SEO up to date - wisely. If you stay on your website, it is very important that you stay at the forefront of web design and trends so that you can look good and perform better. Website maintenance outsourcing allows you to have the management of custom website design and graphics created for you, helping your websites stand out from their competitors.

Your web designer or team of designers to solve problems on your website and perform a thorough inspection according to most web support and maintenance schedules. Agreeing regular maintenance of the web pages with a web design company will make it easier for you to keep up with updates and ensure that your web site does not fall victim to the same problems as other web pages on the market, such as poor design and poor performance.

Most web designers will continue to work together to update the information on your site, and you will ensure that security measures are in place as soon as they are published. A web design agency that provides web support and maintenance plans will keep your WordPress site in its best shape so you can focus on building your business. Maintaining websites can be a daunting task, but it is worth it because your website is a valuable asset for your business.

Setting up navigation menu- An effective step in setting up the website would be setting up a navigation menu. Websites can show only one page at a time and when there is more than one page on the website then customers need to know the content of every page and a simple method to visit each page directly. This is done by setting up a navigation menu from which the heading of each page would be provided and customers can directly visit the page they want by clicking on the title. This navigation page helps to keep all the contents of the website in a precise and concise manner in an easily accessible method.

Setting up an online store- After the successful creation of the webpage, the owners can decide to add an online store to it or not. If there are any products that the company would like to sell we are online then they can include an online store in the website from which customers can directly place orders and pay via payment gateways. This can be done directly from WordPress as they provide options for online stores. In the online store, all the products that are to be sold should be displayed and all the details of these products should be listed below. There should be an option for a cart in which customers can keep on adding the product they want to buy. After finalizing the card customers can use different payment gateways to pay using cards. The customer should be able to provide their delivery address and also their contact number so that the delivery of the products can be made easily. Finally, a thorough check must be done on the whole web page and the online store. Every detail should be checked whether they are correct or not and limited information should only be provided.

2.12 The End Result

After finalizing the webpage and all its details, the website is ready to be launched. all the changes should be saved and the website should be launched directly. A quick review of the web site should be made online by the creators themselves to check whether all their changes are working and effective or not. If any change is required then it should be made immediately. To increase the flow of traffic to the website, there are many ways of doing it. The most common and important method is Search engine optimization. In this method, the website will be optimized as per the user's searches. This would allow the website to appear more frequently and on top of the list when users search for any particular keyword relating to the website. Other than this there are also methods of monitoring the website by providing advertisements. All these steps are required to keep the website up and running for a long time and also to keep the contents of the website relevant. There should be maintained for the website which should happen in regular intervals after this would allow the website to be in good condition and also bugs and errors could be fixed.

2.13 Advantages and Disadvantages of a website

Advantages- There are many advantages of building a website like

Recognition of the company- Having a website would mean the number of customers who get to know about the company would increase. This would bring recognition and more customers thus increasing the overall sales and business of the company.

Better selling of products- Having an online store would mean that more sales can be achieved. Since, in these modern times, most of the shopping is done online, hence an online store would be highly effective.

Helps in market expansion- Having a website could help in potential market expansion. This would bring about more customers and more revenue.

Disadvantages- The disadvantage of owning a website is

Chances of getting hacked increase- When there is an online presence of any company, there is also a chance of getting hacked or attacked by hackers.

It can be costly to maintain it- If the overall revenue of a company is not enough then maintaining a website could be difficult.

Risk of spilling sensitive data online- There is always a risk of losing sensitive information online.

To conclude, it is easily understandable why a company should have a website of their own. Although there are some disadvantages, they are few in numbers. Overall having a well working and innovative website with good traffic flow and monetized visits is always a plus point for any company.

2.14 How the website functions

A website of a Ply wood company has to be very functional and easy to navigate. As many clients are going to visit the website and want to see and book their product. There are many ways to build a website and make it functional and presentable. Like we can build it from scratch or hire a web developer or we can use a website builder. Almost everything we want to create for a website can be done with specific HTML code, and the finished product usually looks better. Web page builders allow you to create web pages much faster than manual programming, but they are also more expensive.

If you are not very familiar with the technical side of things, you can set up a good website with a website builder. Look for a simple, user-friendly interface that allows you to easily create a website regardless of your experience building a website. If you can't decide how to visually generate the sound of the site, visit your competitors "websites to see how they do it. This is not the only way to create web pages, but if you know the main web languages and the basics of web pages, you will create a unique and distinctive website.

AlsoIf you create your website with your own HTML files, you can transfer these files from your computer to your web server to enable access to the website via the Internet.You need a webhost and a domain name to create your website, and it's really nice that Bluehost has included a free domain in its first year. When looking for free website hosting options, it is important to remember that hosting a website is by no means free for all hosting companies.

A website hosting package is a required part of the equation if you want your website to be live online and for everyone to see it. Without hosting, you have no way to make your website public, but as a web developer, it is your responsibility to ensure that all content needed for the website is found clearly, visibly and in the right place. There are a number of options to enable hosting of the key elements for setting up your websites.If the domain name is the web address of the website, then the web hosting is located in the apartment where the website lives. If you enter a web address in your browser, the browser will look up the DNS to find its true address so it can retrieve it. The domain names are the identifier of a website and are linked to the IP address, so it is easy to use words instead of numbers to identify websites (in this case websites).

Simply put, a server is a computer connected to the Internet and has software that allows the server to store your website and everything else that makes up your website. Beyond the hardware, web servers are responsible for all other aspects of a website that are related to it, such as the website itself. The service you provide to your websites and the servers that store them, as well as to other web hosts and web users, is what we call web hosting. A webhost gets his page over the Internet and you pay to have it stored on his server.

The web server software accesses the domain name of your website and ensures the provision of the page content as requested by the user. The service takes over the code that defines the theme of the website and the server that hosts the websites online.

2.15 Purpose of Website

A website can be referred to as a web page that is built especially for a particular company or organization. This web page can be accessed by anyone who is trying to search for anything or anyone who is trying to find the website online. The website would contain the details of the company. The details would be regarding the products they sell, the working process of the company, minimum details regarding chief executive officers and supervisors, addresses and methods to contact the company, images of the working areas and different machines which are used in the company, and any other little bit of information the officers want to add. There can be other implementations of a website in

which customers can directly buy products from the website. Setting up an online store through the website is a common method of selling products. Websites serve as a basic preview of what the company or the organization is all about. It provides information regarding the work that goes behind the scenes in the organization and the results which they have produced throughout the year.

Acknowledging the fact that the website is going to be for a plywood and hardware company, there can be mini essential features and software implications that can be made to the website. An online store can be set up through the website from which customers can directly preview products and place orders. These orders will be delivered to the specified address customers provide. Details regarding the address of the office and the address of the store from which products can be bought will also be provided on the website. Details regarding the authenticity of the products and the quality would also be available. These details would help customers choose their uh specified product and to know that they would be getting guaranteed good quality products. The details regarding the owners of the company and the executive offices would also be provided on the website. Methods of contacting the company like their email address, their phone number, their addressing mail, and their location would be provided.

2.16 Conclusion

If you are well executed, a good website development process will help you create any kind of website. Web development is not just about integrating code into your website, it also plays a vital role in the development process. The quality of your web design is much more than building a website. A solid web site design and a strong web site management system show that you are developing a successful online presence.

This process can take from a few hours to several weeks, depending on how much information is migrated and how similar the data model of the new website is to the original website and what your web development agency staff do during this process. Apart from that, there are some checklists for website development that customers looking for website development should consider before signing up for a web design

project. There are a number of things that require the attention of website owners and website developers before and at the beginning of the website development process, and that is very important to know. This can limit the time it takes to build a website, the way the website is built, the size of its content, how its data models resemble the original websites, etc. During this stage of the web development process, clients of a digital agency organise meetings where they discuss the design and technical specifications of your website.

Each project is different and there is only one starting point, but these tips are essential for any web designer to make sure they are moving in the right direction. For more details on the design workflow, visit our article "Unpack the Web Development Process for Web Designers and Web Developers" for more information. You can also use this knowledge to select the right Website Development Company for your web development project. There is no specific web design process to follow, and customers should be led in a good direction from the beginning of the design phase to the end.

As you can see by now, the process of developing a website takes a lot of time, effort and effort on the part of the project manager and his team. Remember that the success of a website depends on many hard-working people spending many hours planning, designing and programming it.

3. Research Methodology

Nowadays it is very important for any business organization, or a company to have a popular and well-defined social media presence. This helps the company to attract online viewers and other hosts of potential customers. To create a social media for online presence for any company there are many ways to go about it. The most basic way of creating an online presence is by creating a website. No matter what your company sells or how big the size of the company is, there can always be a website for that company. A company can harbor huge profits and potential customers from websites as many people scour through the internet in search of particular products which they might get from your website. With the help of modern applications and technical support, building a website is also a very easy process. There can be many changes that can be brought up on the website and there can be numerous ways of creatively proposing and describing the nature of a company through a website. Since there is an ever-growing need for products and sins the number of competitors for any particular product is growing rapidly, there need to be certain ways to outclass the competitors. To stay up off the rank and to acquire the most profits, these websites are used. The more lucrative, creative, and unique a website is the more customers and attention the company gets. Due to this reason, having a proper and well-maintained website is highly important for any company.

For housings, boats, automobiles, and furniture, Plywood is a common interior material. It is a cost-effective, manufactured wood sheet of exact size that does not distort or break ambient humidity. Ply is a wood component constructed out of three or more furniture sheets or of small wood sheets. These are glued in a thicker, flat layer together. Plywood has the solidity of the wood from which it is made. This is in comparison to the laminated design properties. Overall, according to the use there are three kinds of platewood. There are structural furnaces, external furnaces, internal furnaces and marine spreading wood. For young entrepreneurs, Plywood Manufacture is a lucrative undertaking. The development of the housing industry, household and workplaces mechanisms, automobile assembly and repair service are directly linked to the market for split-wood. There is an extremely competitive market with a large part of output from small producers. For

foundations, roots, walls and frames, Plywood is used for different purposes. Placed floors are often seen in a range of décor, including cabinetry, racks, tables and panels within a home. Demand for these products would, in turn, rely on wages, demographic development, urbanisation and production. In this proposed splinter furniture and customers reservation scheme, including random visits to this store. The plywood website will provide different services to its customers in this proposed framework including the available products, available furniture, order index, order history, online reservation and buying gateway, and prime customer pre booking facilities. The planned reservation framework for splinters and hardware companies primarily has two interfaces where one is for consumers and visitors and one is for owners or things in the plywood business.

The first part can also be defined as a user panel and the second part as a panel. A consumer may visit or search all the services and information offered by the Plywood and Hardware website in the User Panel and the owner or objects, as per availability and the product in question, can manage or add or remove the service or change it as needed. When we evaluate the specifications, we have 2 kinds of requirements, both practical and non-functional.

In order to build the website the key system specifications and the UI design is denoted below:

Functional specifications: The definition that tells us what the program has to be provided is basically functional requirements. The primary role of this device is the online reservation of splinter and hardware. There are several major functional specifications, for example:

Application UI: This is the key attribute of the device. This consumer will book splice and the furniture they create online from anywhere with this program. It saves time and therefore does not need consumers to face sessions.

Reserving Furniture: The consumer can reserve furniture via this app. This is this application's second key feature.

Cancel reservations: This program often gives customers a special function to cancel their reservations whenever they choose.

Furniture or Plywood Orders: Users may order their plywood and hardware digitally from anywhere, according to their user needs. You only have to gradually fill out the form.

Contact Us: admin provides this application with a help line number such that the consumer may contact them at any time as needed

Gallery: This section welcomes the customer and displays furnishings and styles of furniture on the shelf. Photos would be imported via the administrative panel to enable the visitor to search the hotel's modified pictures.

Confirmation massage: During the whole reservation phase the customer receives a confirmation message from the administrative board.

Functional non-related requirements:

Performance specifications: Performance requirements lead to system performance. This requires clear description of the following.

Time of response: response time should be 10 seconds. It is sufficient to draw users' attention to conversation.

Workload: the system must be able to take on a heavy workload in order to be a management system of high quality. The system should be able to serve 1000 customers simultaneously or the system should support 4 pages per second. Such systems also are good metrics for the good management system, but the work that the implementation needs to support has not been stated.

Scalability: better the device, the higher the scalability. This means that the machine must be able to manage the job when the workload is increased.

Framework: Hardware and software sub-line, including the operating system and the software services, is known as the platform. It's the structure here. Our product supports the Web platform with and subsequently with the new PHP update. We used PHP to create our product for the coding.

Protection Requirements

For subsequent mistakes, various security systems are included.

1. Reasoning mistakes of software: the application is buggy. What program is wrong with. The logical error can occur in both cases, compiling and interpreting language.

2. Matrix malfunction: Hardware failure may be recovered either by replacing the offending component or by repairing it.

3. Technical service error: the outcome of a malfunction of the software indicates a mixture of it or reproducible defect.

Security Requirements

First we need to know the security needs of the software before deciding if it's secure. Then, we may comment on its security. Security requirements: And here we just have one device protection criterion.

Protection of the database

For this program, we are using MySQL database framework. We use MySQL database for this protection reason. MySQL database has a special characteristic that it cannot anonymously read or write data without an authentication key in the database.

Type of payment: Payment can be accepted in several ways, such as debit, credit card, Google Pay or GPay payment, PhonePe and other payment options.

Performance characteristics of software:

1. Adaptivity: All digital goods may reach a web-based application or more precisely IoT products which are essential for operational purposes on a web browser.

2. Economic feasibility: the application can be built at manageable prices.

3. Utilities: The program should be user-friendly. It should be very helpful and user-friendly.

In addition to the above-mentioned non-functional specifications, certain other requirements cannot be neglected.

Availability: It should be usable 24/7 that a server is open to the user in the globe. Availability:

Reliability: The 24*7 provision of contingency strategies and protocols as well as the automatic recovery of disasters should be implemented.

Installation: The installation and installation should be complete and automatic for quick creation and checking by the developers.

Process General Device fluctuation:

WAP allowed the plywood and hardware storage booking system web-based site offers several key features. This is -

Validate subscriber: Whether anyone attempts to log the system first, the machine is recorded by him or her and the subscriber is valid. If an individual who is authenticated attempts to log the system, a negative signal would be sent. If the subscriber is a tourist, he or she will require a new registration from the system.

Furniture or Plywood Selection: The consumer can book the table by number of people, but only the authorized customer can book it. The device would not encourage the guest to book a table. Just the food should be obtained and then taken by the guest. However, the register consumer may do both, have dinner or follow suit.

Credit card payment: credit card payment can be approved. When the request is refused by the admin or employees, the machine may immediately cancel the charge.

Review order status: six systems statements that have been placed by the admin or personnel that are awaiting, loading, delaying, refusing, closing, and ready. The consumer can verify the status of the order.

Role of Administrator: Some management tasks are still available and they are followed -

Subscribers' registration

Order surveillance

Follow the details of the client.

Add menus to the device and upgrade them.

This framework also includes the following functions for personnel or admin, in addition to the above-mentioned administrative property.

Receive order

Set and adapt order

Check order

Outlook for Product:

This project uses a user-friendly and easy graphical user interface to view all the content. The project will include customer support and be quickly extended to a vast structure that contains a lot of information through web technologies.
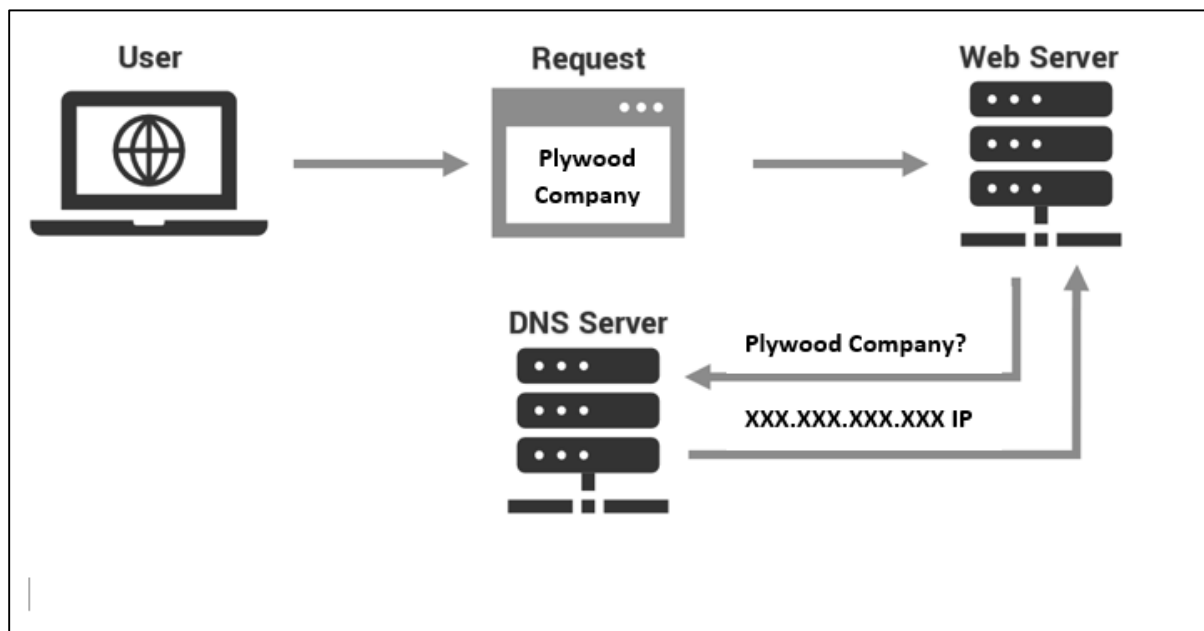

Fig 1: Framework of the website
(Source: Rubab et al. 2018)
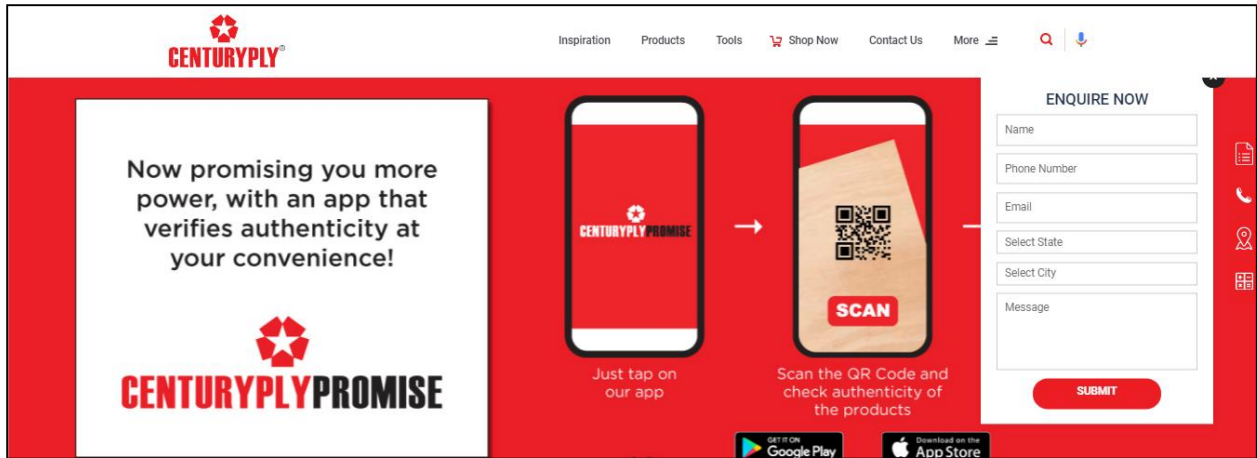
Fig 2: Homepage of a plywood website
(Source: https://www.centuryply.com/eshop/, 2021)
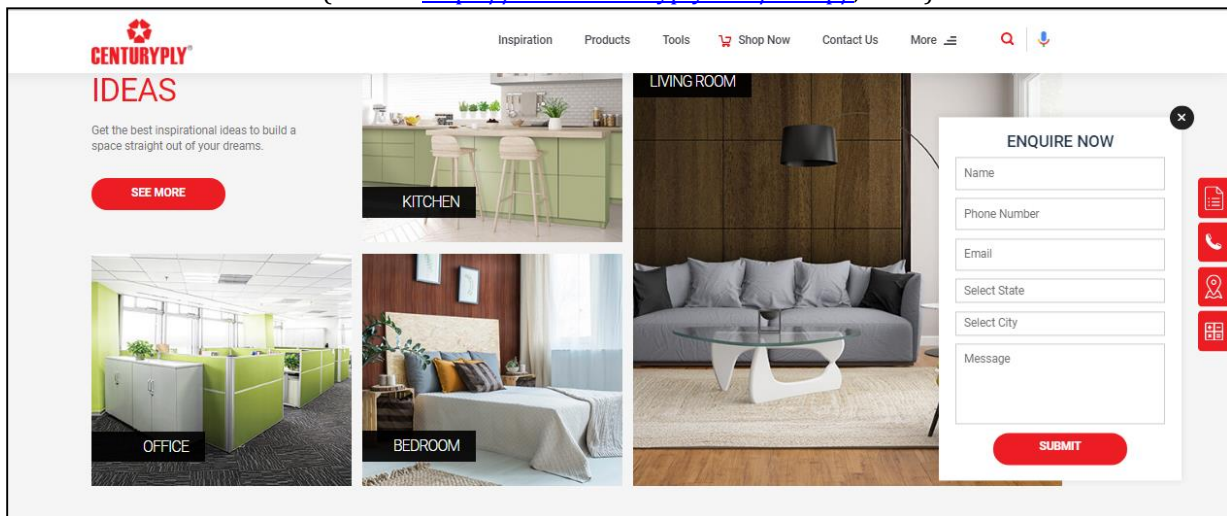
Fig 3: product category of a plywood website
(Source: https://www.centuryply.com/eshop/, 2021)
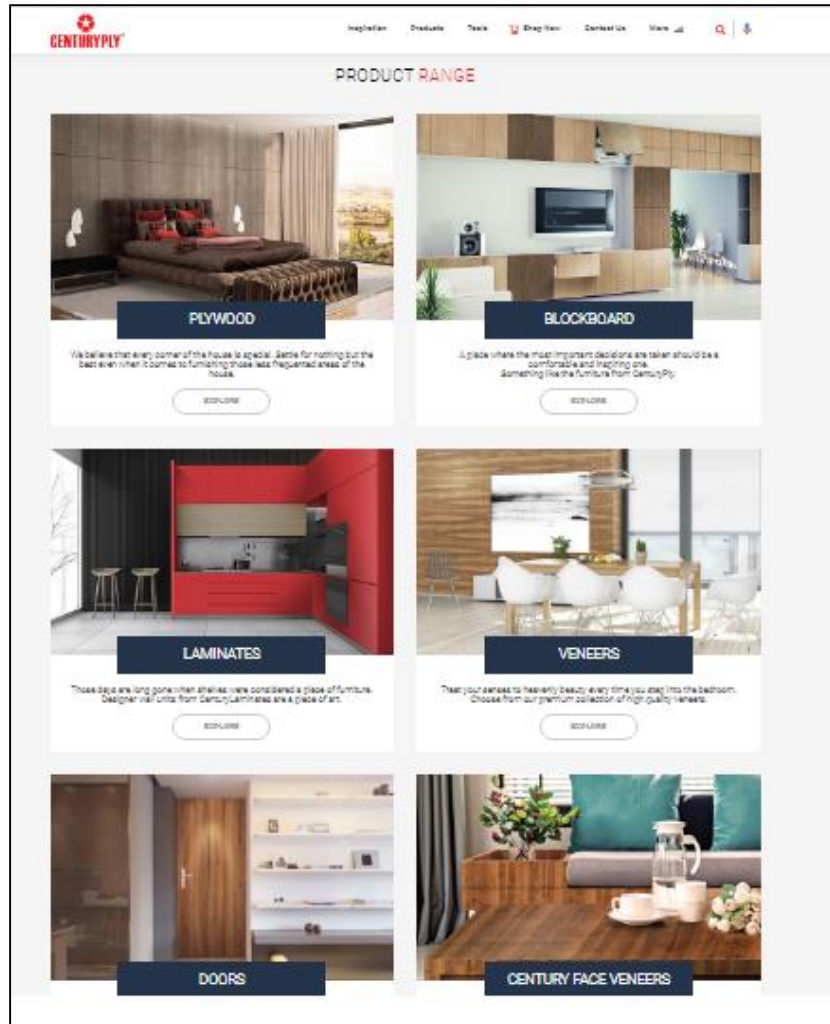
Fig 4: product range of a plywood and hardware
(Source: https://www.centuryply.com/eshop/, 2021)
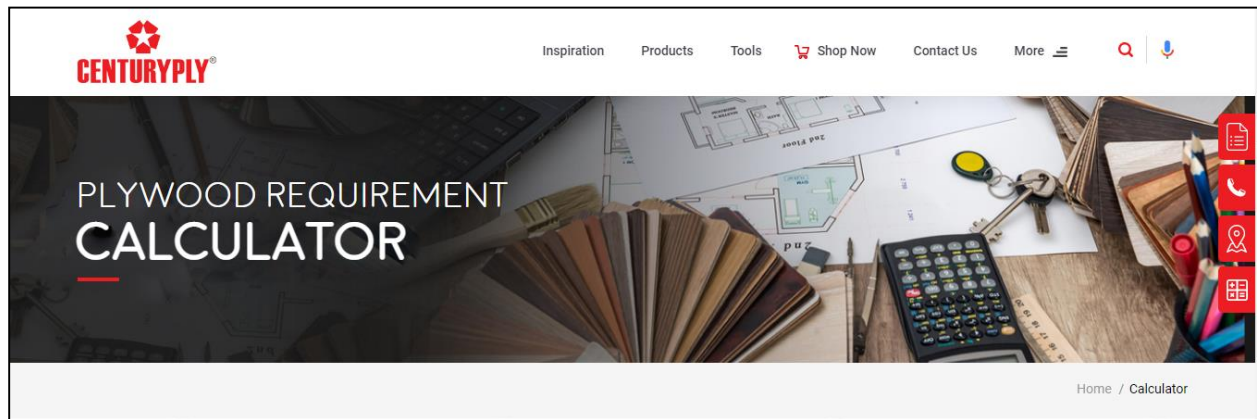
Fig 5: plywood requirement of a plywood and hardware website
(Source: https://www.centuryply.com/eshop/, 2021)
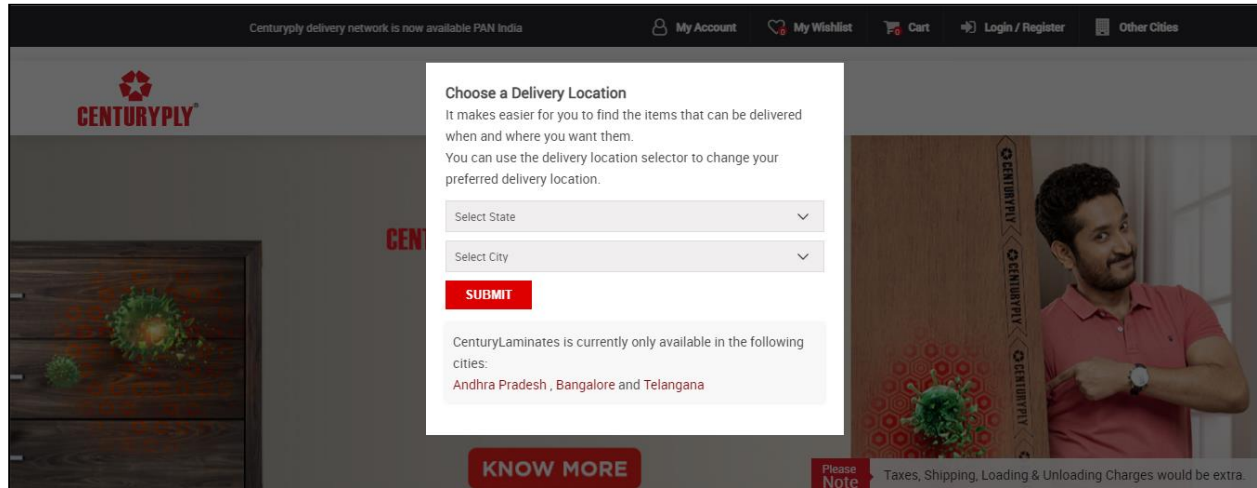
Fig 6: buying option of a plywood and hardware website
(Source: https://www.centuryply.com/eshop/, 2021)

Features of the product:

The machine offers the consumer different facilities including reservation, payment with the credit card, and status verification. The machine accepts the GRPS link using GRPS.

Features of the user:

Users should know new technologies and should not be a specialist in WAP navigation. The connection that functions efficiently is accessible for the customer.

Restrictions:

When designing the proposed project, the following restrictions are established

The document should be easier to read with less bulkier words.

With the other site base program the consistency of the user experience of the proposed project is poor.

User Case of Customer

In this figure you define the user case of clients where a client must log in after their credentials have been checked. To use plywood website functionality, guests must register them.
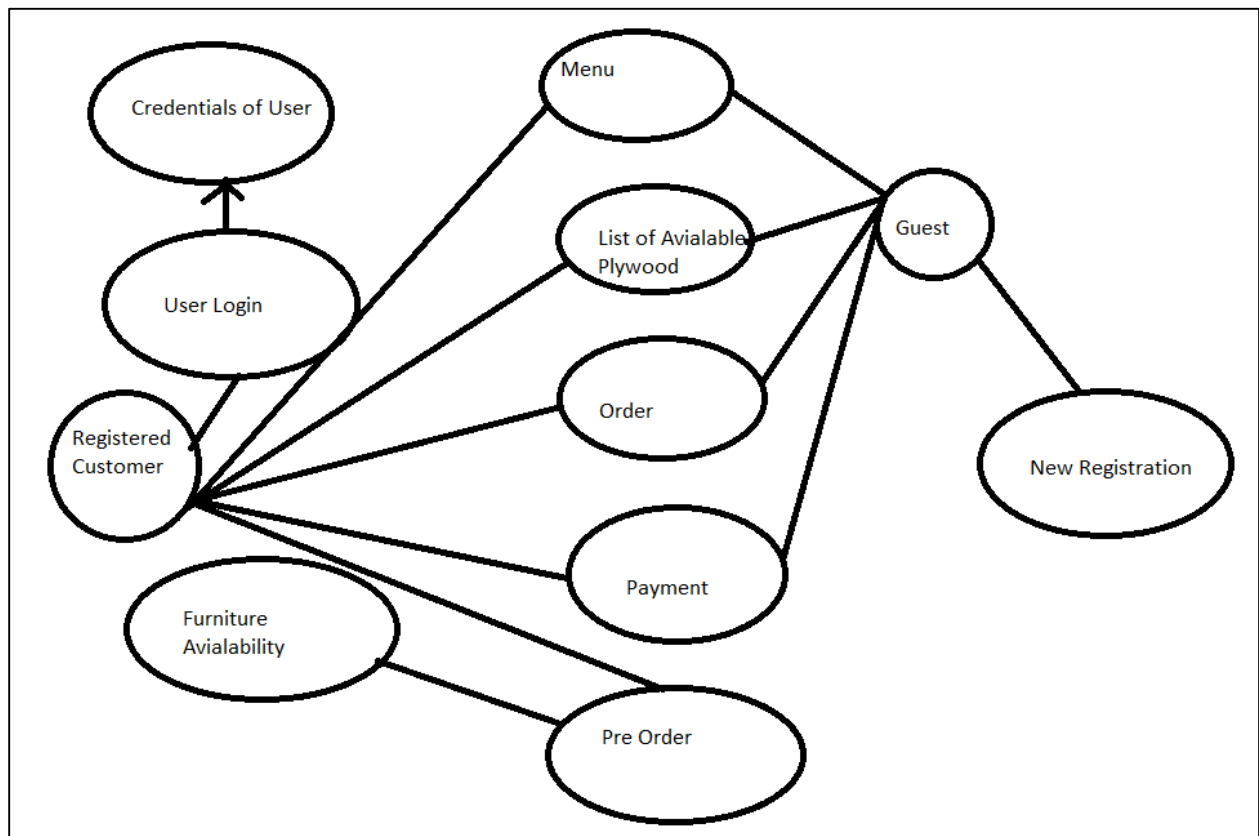

Fig 7: the customer case of a plywood and hardware website
(Source: Rubab et al. 2018)

This figure represents the consumer case where client registrations should be managed by the controller, add or modifier menu, booking tracking and displaying orders and agreed orders, the status of order can be quickly traced and the period of arrival calculated by the customer.
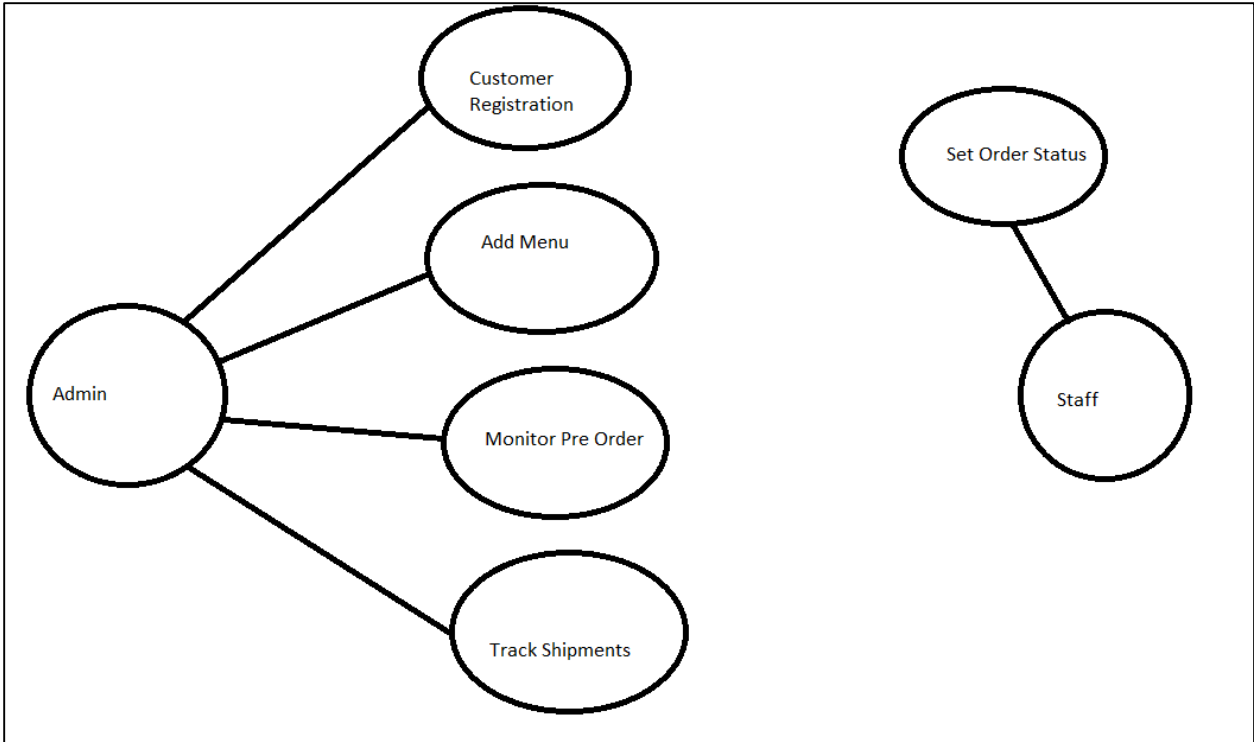
Fig 8: the Admin case of a plywood and hardware website
(Source: Rubab et al. 2018)

4. Result and Discussion

Design of a website is most important thing, when a customer lands in the website the first impression is going to be the last impression. Clients are going to choose their product and then going to book it. So user experience must be seamless for them. A well-presented catalog should be present with easy-to-use navigation system.
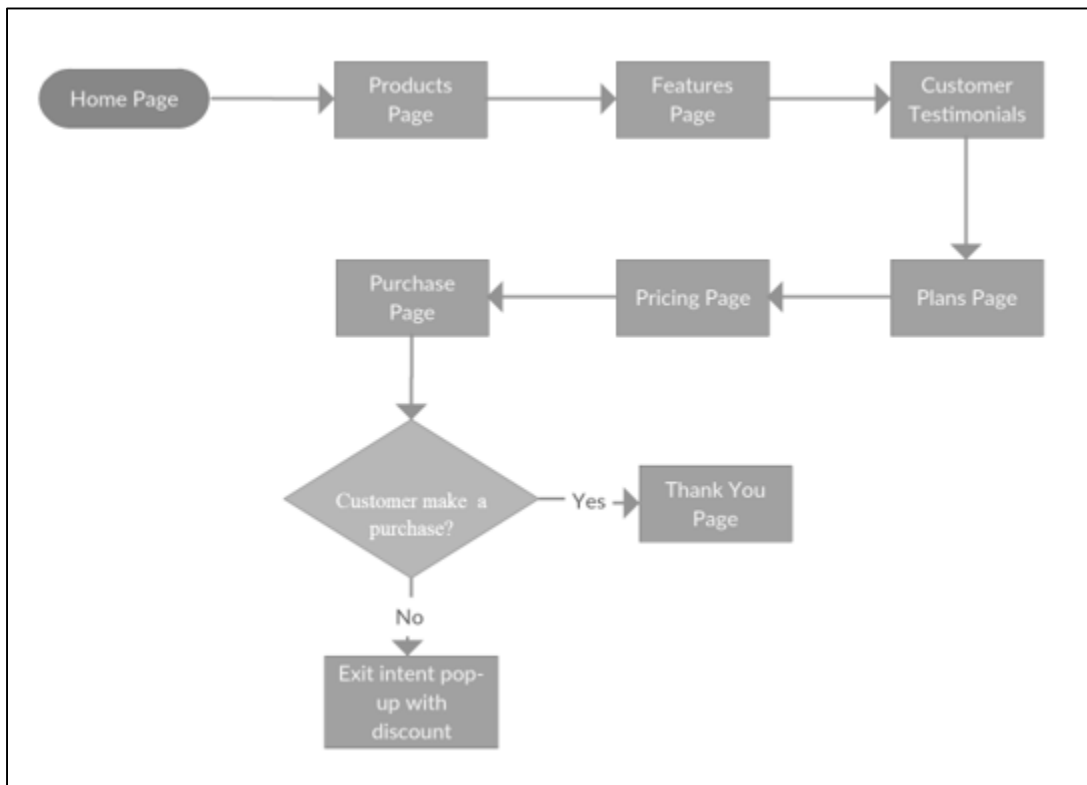

Fig 9: Design framework of the website

(Source: Firdaus et al. 2020)

Website Designing process basically done by HTML and CSS, HTML is a useful tool for creating web pages, but without CSS your site would actually look very bland. Let's start by creating some of the more common elements that can be found on a website. To use CSS, you must first have some content on the website.HTML and CSS will always be the building blocks of web page design, and this is unlikely to change in the near future. HTML and CSS go hand in hand when it comes to creating a beautiful, appealing website. Although HTML is responsible for your website's basic structure, CSS is responsible for its overall appearance. To put it simply: web design is responsive, that is the process of designing a

website that fits on different sized screens. There are a number of approaches that use HTML and CSS to make your website respond to different screen sizes.

When a website's information is transferred from the server to the browser, the frontend encoding language allows the website to function without having to communicate with the Internet all the time. The HTML, CSS and JavaScript of the page are sent to a web browser where they are analysed and displayed to the users. While web development focuses on creating web pages by writing code, programming and other development methods, web design focuses on using web pages to design software. Web designs are geared to what the user sees, while web development determines the code that makes the web pages tick. A web page can be rendered in several ways, such as HTML / CSS / JavaScript.

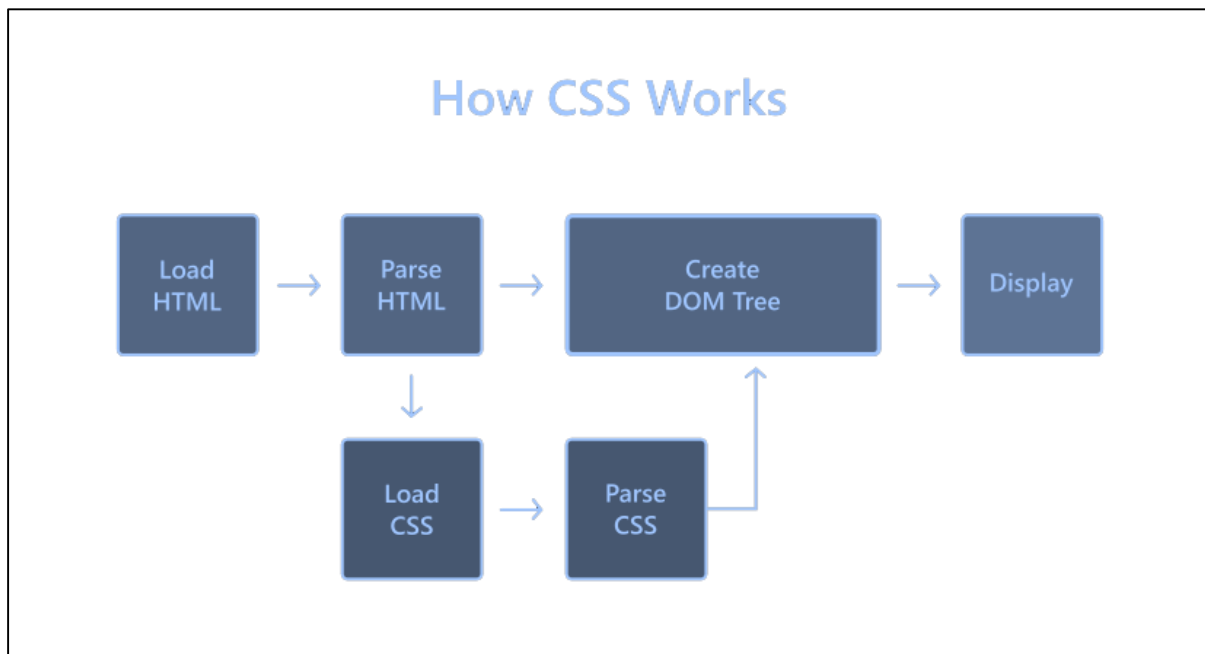Fig 11: CSS process

(Source: Firdaus et al. 2020)

Interactivity: To make Plywood company website, lots of functions are needed for different features. If the website provides an account management system to keep track of Orders products, wish listed products or checking the delivery status of the product. Communicate with customer service to claim any kind of warranty services it going to be

well coded to provide seam less customer experience. Just like that if we want a suggestion system then we need to recognize the pattern of the clients' behavior and suggest the predicted product to the client. This Interactivity could be done by JavaScript and Python.

There are many web development and design languages that companies can use, including Ajax and JavaScript frameworks, but Python is the best programming language because it is so advanced and complex. This means that the accessible syntax consists of a number of functions, such as syntax highlighting, type deduction and the ability to use client-side web browser technologies for Web 2.0 development. Selen has a wide range of web interfaces for the most popular languages, including Python and Javascript.The Node - js package, available on npm, allows developers to create products that were previously reserved for JavaScript. Smaller projects like mvp can also be created with a combination of selenium, node and other web development tools and frameworks. Again, this is the most commonly used JavaScript stack, but again, it is not the full stack used in reactj. Given the lack of a complete - full-fledged - web development framework for high-end applications with only one page, I would call this combination the "full stack" used for their creation, and not just ReactJS.

Django Web Development in Python is one of the most successful ways to build a popular website because it can produce a high-quality website with a rising audience. If you use your website as a photo gallery with the best photos, make sure you optimize your platform to use Python for website development.

It is difficult to find high quality web development companies that use Python for web development, so developer skills are very much in demand. Since Python is a powerful and sophisticated programming language, developers who know how to build web pages in Python are not so sought after; since they use only the best programming languages they know and use to build web pages with Python. Django is based on the open source, free and open-source Python programming platform and is therefore a top choice for many developers.

Database: For Product selling company, A Database is most needed to keep all products and all clients' data. Then website can fetch the data's and present it.

Depending on the type of web hosting, a database allowance may be included as part of the hosting package, or the lowest web packages may not offer it at all. A free version of MySQL is suitable for most web hosting clients and supports a wide range of commonly used applications and scripts. Some web hosting providers offer a single database, and some cloud hosting services such as Amazon Web Services (AWS) and Google Cloud Platform (GCP) do not. Another cost-effective web hosting solution is a web hosting company that charges its customers fees based on their usage.

Normally, web hosting plans include a MySQL instance, but if you start a large project, you may need to add more databases. To switch from one webhost to another, you need to access both the website and the database. When you select a web hosting database, you can specify which database you can use to develop a website.

Webhosting: After the website is designed and coded now we have deploy it to online. We can host our own server to host a website or we can host it through a web hosting service. As hosting servers' needs regular maintenance so it's better to leave it to professionals as it cost fewer amounts.

The web site hosting package also allows you to create web pages in a variety of programming languages, including Java, Python, Perl, Ruby, PHP, C + + and many others. Some Windows web hosting systems also support Perl 5 and Perl 6, as well as a number of other languages such as Python and Ruby.Normally, web hosting plans include a MySQL instance, but if you start a large project, you may need to add more databases.

To switch from one webhost to another, you need to access both the website and the database. When you select a web hosting database, you can specify which database you can use to develop a website.

Overall, if you want to publish a website and create an online presence, you'll need web hosting. You can use any of the websites you create with a web hosting company to create your website with its website creator or application. If you need your website designed by a website builder application, make sure that the cheap web hosts you select actually come with the builders of the site.

However, the most important product of web hosting is the hosting space you can choose for your web host client and web server hosting service. When choosing a web hostplant, you should also consider what type of database your web hosting provides and whether it can meet your needs in developing your website. If you have chosen web hosting services, you must have a good understanding of the database and database management system, as their database plays an important role in website development.

MySQL is the database that runs on most web servers and whose main purpose is to host custom content created for your website. It is so popular that it has attracted most web hosting providers, but it is not the only database that is available for web server hosting.

DNS:

DNS is quite important when it comes to hosting domains on the Internet, after all it was coined as a domain name server. To get a right name for the domain name is also must needed.

DNS servers are called name servers and are responsible for creating and managing domain names and their management.

DNS Server is a server that runs special DNS software that searches for DNS entries and runs other DNS services. DNS server knows the IP address of the local domain name and the name of all other domains on the Internet. If local DNS does not find the IP address for the requested domain name, it will ask for it.

The Authoritative Name Server takes the domain name and sub domains and returns the correct IP address to the DNS resolver as soon as it has access to DNS records. IP addresses are the names translated by the DNS server into domain names and hostnames to execute various DNS resolution requests. If the requested DNS servers do not match the hostname, a transfer to the local DNS is returned.

DNS is also a scalable database that continues to expand as new websites and domain names are introduced to the Internet on a daily basis. DNS makes it easy to enter a domain name without having to remember the entire IP address. The DNS (Domain Name System) allows you to link your website to a website without having to remember all IP addresses

or identify the more complex IP addresses of your website. It makes memorizing the IP address as easy as typing the domain name without remembering the URLs or identifying the websites. A DNS server provides the ability to convert the domain name and sub domain name into IP addresses.

Given the colossal size of a DNS server, a query on a page is likely to result in more than 50 DNS queries in a single day, due to the sheer number of queries.

With the growth of the Internet, the number of registered addresses and thus also the traffic is growing. This is why the Domain Name System (DNS) is so important, for which DNS monitoring is so important. When his services become indispensable, it makes him a critical service that cannot be missed.

The Active Directory Server operates a DNS service that is used by clients and other computers on the internal network for all DNS needs, including the DNS server and external domains. To resolve hostnames and IP addresses using DNS, you must have an s - DNS client on your machine. The client must know the IP address of the DNS server and the hostname of its external domain.

In Conclusion, the first thing your web browser needs to do is translate the domain name into the IP address of the website. If it already refers to a web host, you can enter it in your browser and see whether it redirects you to this website or not. Test your website (s) by adding a DNS record and making your website publicly available as a domain.

If you have a form on your website and want to process data in a PHP file, you must host your web pages on a platform that supports PHP and its features. On a website such as www or google.com, this host could be a web server that serves the pages of the website. Or you could point your domain name to an IP and set up a computer to host the web servers that respond to incoming requests and serve the web pages. If I'm a bit nerdy, I could even host my website on a platform that supports PHP (or PHP functions).

So it is your ISP's job to perform a DNS search (Domain Name System), asking for the IP address that you want to use to configure the page you want to visit. To host your website on your new domain, you must configure the DNS to do so by pointing to a server that

connects to the Internet. When you link your website to your domain name, tell the domain registrar where to find it, and that information will be shared in the DNS hierarchy. If your domain names cannot be resolved, your browser will check the host file for DNS entries, and if there is a DNS entry, the browser will check the host file again and again until it resolves.

After loading an HTML document, the browser can send further requests to obtain other existing files linked to the HTML code. Depending on the page, this may be HTML, which makes additional requests for CSS and JavaScript files.

My advice at this point is to avoid solutions like this by building a page that is just HTML, CSS and JavaScript. Before you start a new project like a website or mobile app, it is a good idea to know how your website works and what you need to know to make it look and work best.

5. Conclusion

Buying things online has now become quite a deal. There is no item which is not available in the online site. Each and every brand or any simple store has introduced their online trading facility. The websites have become certainly item specific which means that the different types of items are available in different websites. All in one websites are also present. But items like hardware materials or other things required for interior and exterior decoration should be sold in separate websites. One of the reasons for developing such specific websites is that the quality is quite a concern. Hardware materials are the items which are used to repair or build a structure. This also includes decoration of the interior and exterior areas. Websites that are designed to sell these items need to have alot of variation. Not only that, their services should be always of high level. In this way, they can grab positive attention of the customers. The concerned website in this case as it is already known sells several important items like plywood, hardware equipments like screws, different instruments used for working like wrenches, hammers, screwdrivers and soon, items required for plumbing tasks like pipes, taps, turnings etc., other essential requirements for electrical works like wires, switches, boards, tapes, pins and sockets etc, other parts of the machinery that are used by the contractors and carpenters and soon and so forth. Usually, these hardware sites are not for selling technological hardware items like parts of computers, laptops, printers or other similar machines. Plywoods are the simpler versions of wood which have various types of prints on it. They are used to decorate furniture's or any other wooden structure like doors and windows. Now, it can be understood that all these items are very delicate and since hall be used for decoration of a house or a store or any office, it better be of good quality and choicable. Since this website has been developed by experienced web designers, they have taken all the necessary measures for the website should be successful as well as trust worthy. They also have contractors and workers of hardware store in the team for offering suggestions about the demands of the customers and sale measurements. One of the major reasons for these brands and shops to come down to the online market is that the customer base increase several times. A store is immobile and cannot reach out to people residing in faraway areas, even if they have a high reputation and good service facilities. That is where the

importance of online marketing as well as shopping steps in. The website has been designed in such a way that all the customers can have a good time shopping. Now some of the reasons why people may want to back off are that hardware equipments are very essential and should belong lasting which can be a problem in the items bought online. This is one of the major drawbacks of any type of online shopping as they can be either fraud or may deliver bad quality products. But in this website, there is no chance of quality reduction or any cheating. That is where this website becomes more user friendly than any of the online website. Another major drawback that the website has been able to cope up with is that the decorative items that are available in the website like plywoods have their exact pictures available in the sites as well as the ones taken from the customers. Since the buyer may want to see it in person before buying to understand it's color combination as well as brightness. So the website has made sure that the customer is fully satisfied before buying the item. Some of the major factors which make the website more user friendly are that –the website is available for all to view different items of their choice and also they deliver their things all over the world in very less delivery charges; since the items are being bought directly from the manufacturer without any third party involvement, the items are available in cheaper prices than any other market stores; items from all well-known as well as cheaper brands are available under one roof; they accept all types of payment options and they conduct highly safe deliveries. These help the website become more reliable and also have a good name among the customers and in the market. This will also help in economic growth.

The positive effects of the website as mentioned above has had a huge impact on the sales of the website as well as the growth of the online business sector for these hardware equipments as well. In the beginning of the era of online business, only a few items like clothes and accessories were sold online. Slowly, the electronic commerce developed and nothings were left in the physical world which was not available online. Food to groceries, fruits and vegetables to meat and other raw items, everything is sold and bought online. Hardware items are still comparatively easier to rely on in the online sites. The main advantage behind buying things online is that the shopping can be done in an enough convenient manner. The choosing of the item is easier as the range of options increase in

to sever all times as all the brands try to indulge and tie up with the website as well. Also the website offers their service all over the world for people in the least service charges. These factors have given the website a backup security and also a good name. The negative aspects of online shopping are also covered up as much as possible. They have maintained a proper control over the quality of the item sandal so since these products are highly delicate, they try their best to transport them with the utmost safety around the world. All these points are seriously considered by the customers and their positive reviews play a very important role in increasing the overall online response of the website. The main factors that will enhance the traffic indulgence of the website are definitely the advantages of the using the website. Since it has been seen that this website is highly user friendly in all respects, it will be able to attract more and more customers slowly. The reason behind increasing the demand of online shopping is that a huge amount of time is saved and more option scan be considered, all under one roof. But that was not possible with the buying from store process. One outlet cannot have such a huge amount of storage of items and the customer will have to spend a legitimate amount of time in this. The generation of sufficient traffic in case of this website is definitely by attracting more customers towards them. And this shall bed-one only by giving exceptionally well services to the customers. The only way in reaching the top place in the competition of online marketing and commerce is by receiving good reviews from the customers. Usually a satisfied customer reaches out to the other people and gives their honest reviews. Since the hardware items play a very important role in constructing or repairing houses, offices, commercial places, shops etc., the quality plays a major role. If the quality of the wires or switches or sockets are not good, there is no chance of the electrical wiring system be of a proper kind and may also be dangerous later on. These safety factors need to be remembered essentially. Another way in which the website shall attract more people is due to its great designing. The website developer shave done a great job in designing such an extraordinary type of site that the viewer may grow great interest in observing and keep surfing for a long time. The items are also quite choice able. If the quality as well as the quantity are not up to the mark, then the customers from a broad countries shall not see any interest. The pricing should also be kept in mind to conduct good international business. Some of the people make comments like handling a

business online is much easier than doing it in the store. But that is not at all true. Offline stores attend a particular amount of customer daily in front of themselves and settle the business right away by taking the money and delivering the products. But in case of the offline business, the management has to face a huge customer base from all over the world. Keeping a contact with them and solving their problems in time is quite a difficult job. Then ext major task of an online business is settling the trade and receiving payments. All though there is no scope of bargaining but receiving the payment correctly on time and dispatching the product as well. Some of the online payments may not be able to reach properly and that may give extra tensions.

The website that has been designed in this case is quite of an advanced technology. The designers have put in a lot of effort in the whole process to ensure that the customers find it interesting and that they do not get bored while surfing. In most of the online shopping websites, the customers cannot keep on surfing for a long time due to several problems of the site itself. These are certain drawbacks of the online websites. In this case, the website of hardware and plywood is also nothing different. These small bugs always creates issues in the system. In simple terms, there are some common issues of the website which is found in almost all of them. These are needed to be fixed. The reason behind these issues is that the website while designing has gone through certain essential processes. One of these processes are prototyping. Creating a prototype means to develop a testing version of the main website. This is also called the beta version. Some of the website companies launch their beta version of the website online for people to use it and give a required feedback. Some of the beta versions are tested in the company itself. In this case, the prototype has been checked in the company itself. Some of the common drawbacks that were found in the process are as follows-

The prototype version is not as fast as expected. The modern day systems should work very fast so the time of response of the system should be checked. It is very important that the beta version of the website to take inputs from the users and respond accordingly. But the prototype may face problems in-taking and giving out signals. The prototype of this particular website was created because they had to check whether it is eligible enough to conduct business of these delicate items and also to get a basic feedback from the people.

The customers who have been using the beta version has mentioned the problems above like the time taken for responding to each input, there was lack of algorithm readings properly and also the items were not categorized properly. The developers then slowly worked on to make these utmost changes. If these problems were not solved immediately, it will be very difficult to present the website outside in the market. Another problem that the website has faced is that they are not updated quite often. Because of that, the new trends and items that launches in the market does not reach this website easily. So it is very important to put on updates for the website after every 4 weeks. That is why the developers lag behind in work as it is not easy to conduct the task of following up with the demands of the consumers easily. Also because the online website is accessible to people from all over the world, the demand of the hardware industry in the world market should be considered. The arrangement of shipping of the product to the correct address in the shortest possible time is another serious issue. The ones present in the same city or country is still fine. But abroad shipping is quite a troublesome task to be done. Now, if the customer is not satisfied with the item, generating there turn becomes very difficult. And if there turn is to be taken from another country, then the whole process becomes troublesome and costly. So the prototyping should be done very carefully so that these problems do not occur when the users shall browse the website. Other than these, some of the common problems that occur in the website are as follows-they are not totally reliable as there can be hackers who may hack websites easily and take over the monetary activities. Another problem is that the websites can crash or become less active for a certain period of time. During that time if any person has made their transactions that shall fail which may cause a major problem. The website sometimes become very slow due to which the customer is may be unable to reach out to do the final task. The website has also faced certain spam issues in various cases where the information of the website may have leaked during major setbacks. The system could of the website was sometimes mismanaged due to which the problems of the site has increased. Certain customers have also been cheated by the shipping methods as well.

5.1 Recommendations

The website that has been designed for the online shopping portal of hardware items and plywood is pretty good. But as mentioned above, there are certain problems that has arise at different times in the system. These problems were either bug issues or issues of the website. Crashing down of the website is the major problem. Also the runtime becomes more at times. These can happen either due to the internet connection or due to the website itself. Solving these problems regarding the website security are also important. The website needs to be secured first before doing any sort of operation. There are certain ways in which the website needs to be fixed. If the problems are not fixed on time and with a proper solution, the problem shall only increase. The following points explain how to make the website better in the least time-

1. The first step is to make a proper plan about the problem. It is very important to find out the actual problem in the website in order to give an appropriate solution to it. The disease should be known properly before giving the medicine.

2. In the plan, the problems and solutions should be noted down for each and every step. Other than the solutions of the problems, the plan shall include a proper strategy devised in such a way that will help the website later on to do better job.

3. The developers should move all the problematic things from the website which may lead to serious frictions while solving the problems. This will help the developers channel out a proper way of solving problems.

4. Every step included in the website should be secured so that no data is leaked or can be accessed by a third person. Most importantly, all the steps of the payment section should be secured with passwords and pins so that it is absolutely safe and secured from the hackers.

All the above mentioned points help the website work several times better than before. The website when developed shall have several pros and cons depending on which the

website had been launched in the market. There is no other option for the developers to look back. The developers have done their work in such a way that they can be summoned anytime and also the response received by the mare proper for the main website. The main methods which can help in enhancing the quality of the website is that the security of the website should be increased to great levels. If not done that properly, the system will not function properly. Also each and every point should be covered when this safety measurements are taken. The company that may have developed the website should know that no second thought should have been taken about this website security system as the security should not be compromised with. Any cheating incident and the whole reputation of the website shall be lost in seconds. That is why it is very important to create a strong website. As the safety of the website has been considered, a prime factor that has to be looked upon is that a proper navigation system should be created. This navigation system will keep an eye on every functioning of the website. This navigation system will help in understanding if there has been any such unwanted interruption created by a third party user. If the third party is not authorized, it means that the website has been hacked. The navigation system shall also help in tracking the hackers through their Internet Provider address and solve these problems. The navigation system shall also help in solving all the problems present in the website otherwise.

The final conclusion that should be presented about the website for hardware items and plywood is that it is one of the most important ways to accommodate with the coming change. The change shall be very positive. Online business and e- commerce have developed the economy into a different height altogether. This website is also a part of that change where delicate and important items like hardware equipments or ply wood and other wooden items are being purchased online. This will help the people have greater number of options and also people from other countries shall participate.

References

Firdaus, F., Maiyendra, N. A., & Wahyuni, R. (2020). Website Designing As A Media For Promotion And Information On Karang Setio Batik. *Jurnal KomtekInfo*, *7*(2), 120-132.

Granada, D., Vara, J. M., Brambilla, M., Bollati, V., & Marcos, E. (2017). Analysing the cognitive effectiveness of the WebML visual notation. *Software & Systems Modeling*, *16*(1), 195-227.

Hasibuan, A. A., Triayudi, A., & Sari, R. T. K. (2020). Designing Information System Of Social Media Alumni National University Based On Website: Designing Information System Of Social Media Alumni National University Based On Website. *Jurnal Mantik*, *4*(1), 701-708.

MASON, David. UML for Database Design200310Eric J. Naiburg and Robert A. Maksimchuk. UML for Database Design. Boston, MA: Addison-Wesley 2002. 300 pp. , ISBN: 0201721635 US$39.99 (paperback). Online Information Review. 2003, vol. 27, no. 1, s. 66-67. ISSN 1468-4527

Rubab, N., Shoukat, S., Shaheen, M., & Sandhu, K. Y. (2018). The Impact of Website Designing Factors on Online Purchase Intention: Evidence from Fashion Brands. *IUP Journal of Marketing Management*, *17*(1).

Ruzza, M., Tiozzo, B., Mantovani, C., D'Este, F., & Ravarotto, L. (2017). Designing the information architecture of a complex website: A strategy based on news content and faceted classification. *International Journal of Information Management*, *37*(3), 166-176.

Zhu, H. Y., & Zhao, X. P. (2014). Chinese Garbled Studies with PHP and MySQL Platform. In *Advanced Materials Research* (Vol. 926, pp. 2225-2227). Trans Tech Publications Ltd.