



# Mobile application development and testing

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# Overview

- Mainly this thesis gives information about the mobile application development on android platform.
- How user can develop a mobile application on android platform and what are the key components that user required to develop an application..
- Thesis trying to cover almost all the possible information about android platform that helps user to understand more about android and the components that are used for developing an application.
- Information covered such as What is android, Need for android, Android versions and symbols, Key android components like SDK and software stack, Overview and comparison of other types of mobile applications, What is activity in android, Activity types and activity life cycles, Different file types in android like Manifest or Java or XML, Various UI components, Types of Layouts, Different Menus, Containers for android, Android notifications, Intents, Different data storages like shared preferences, sqlite, sql databases and more.



- Thesis has practical part which is just an example application which is created to understand the theory of android application development.
- The example application is working prototype and it is created for the user to understand the android concepts as well as how user can start developing application according their individual ideas.
- The idea of developed example application is fire safety which is created to provide help in any fire emergency where user can book nearby fire vehicle and get instant help by mobile application.
- Thesis also contains the testing part which gives some basic information about the testing of an android applications.



# Objectives of thesis

- The goal of this thesis is to provide information about mobile application development on android platform.
- Also for more understanding of concepts analyze and develop a mobile phone application on android platform related with the fire safety.
- The main idea of the application will be safety in the fire situation.
- User can just login to application and directly go via map and find the available fire vehicle and book it for them in fire emergency.
- Application will automatically take a geo position of a user and show in on the map. User can find available vehicle and book it. Moreover, a booking user also will be able to see the navigation of the fire vehicle to the user's location. By this idea user can easily get help in any fire emergencies.

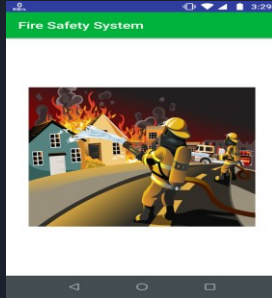


# Summary

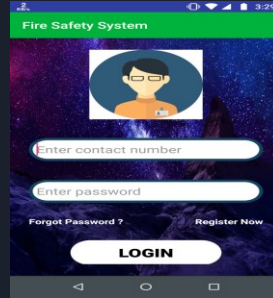
- This thesis is conducted the information about the mobile application development on android platform.
- How development of application process works and what are the different components that needs to be covered for developing any application.
- Also thesis has a practical example application which is working prototype and it is developed for the user reference and better understanding.
- Thesis covered the information about the testing of the android application.
- Thesis try to provide some information about how user can test the developed application and what is the common process do test any application.



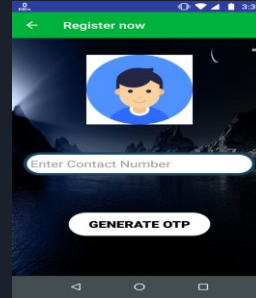
# Practical example application



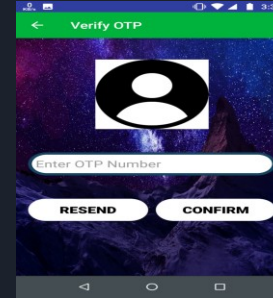
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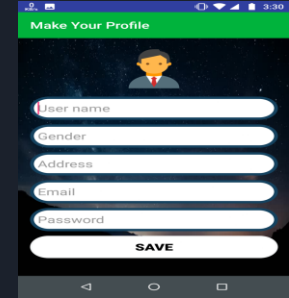
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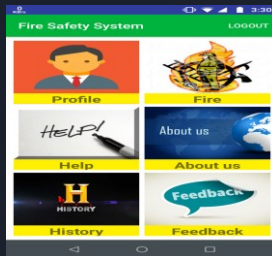
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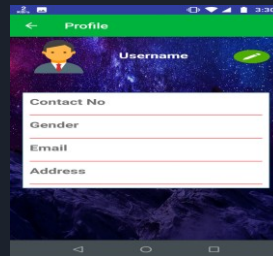
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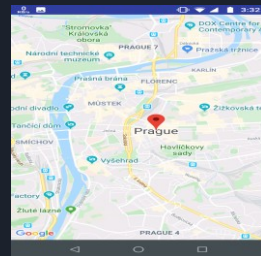
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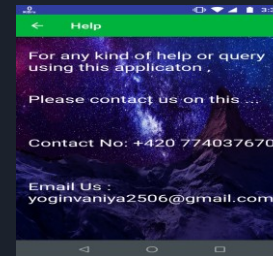
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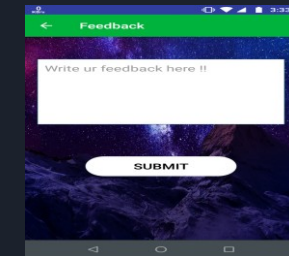
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Fire



Help

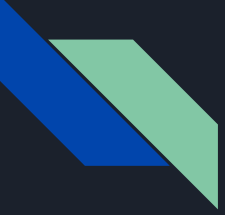


Feedback



# Conclusion

- The goal of the thesis was to provide the information about android mobile application development with a practical example which makes easy for user to imagine the real view of an application.
- This thesis have covered almost every concepts that involved in the android mobile application development.
- In this thesis, there was brief information about the every essential components used in the application development which helps user to understand the application development from the basic level and helps user to easily start developing mobile application on android platform.
- The practical example application was working prototype and provide some basic functionality that any application needs and the application was trying to satisfy the idea of developing an application about the fire safety.



**Thank you!**

