

CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE

Faculty of Economics and Management

Evaluation of the Diploma Thesis by supervisor

Thesis Title **Design of a smart baby cradle prototype: A case of the traditional Uzbek Beshik cradle**

Name of the student **Bc. Tokhirjon Sirojiddinov, BSc**

Thesis supervisor **Ing. Miloš Ulman, Ph.D.**

Department **Department of Information Technologies**

Logical process being used, work with data and information	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The structure of paragraphs and chapters	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formal presentation of the work, the overall impression	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Formulation of objectives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Choice of appropriate methods and methodology used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Professional contribution of the work and its practical usage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work with scientific literature (quotations, norms)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clarity and professionalism of expression in the work	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Author's stance and approach to the addressed problems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Summary and key-words comply with the content the thesis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fulfillment of objectives	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Author's co-operation with supervisor and department	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Theoretical background of an author	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Comprehensibility of the text and level of language	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formulation of conclusions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluation of the work by grade (1, 2, 3, 4)				2

Evaluation: 1 = the best

Date 26/04/2023

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Other comments or suggestions:

The author aimed to develop a prototype of the Uzbek Beshik cradle with enhanced sensor-based features controlled via a mobile application.

The literature review briefly introduces the history of the traditional Uzbek Beshik cradle, provides an overview of intelligent devices for infants, integration of electronic components, and mobile application development. The author cited only 21 sources of literature, including peer-reviewed research papers, which is at a borderline. The author referred to a similar prototype of the Beshik cradle made in Uzbekistan and summarized the key findings of the literature review. However, a more profound overview of the state of the art of using smart devices for infant care is missing.

The practical part accounts for user requirements analysis, functional analysis, design of the cradle 3D model and integration of electronic components, testing, and prototype evaluation. The questions formulated at the beginning of the section are survey questions, not research questions. The author interviewed the potential target users and summarized the main requirements but did not state how many respondents answered the questions. The 3D model of the cradle and sketches of the circuit diagram and connection between the mobile app and electronic control board are presented. Sections 6 and 7 should be incorporated as subsections of section 5.

The author uses "I" in several text passages, which is unusual for a thesis. The text lacks proofreading. The thesis objectives and methodology align with the approved thesis assignment in the UIS despite the copy of the thesis assignment being accidentally omitted in the document.

The author presented his work at the Department's Diploma Seminar on 2 March 2023 and got approval to finish the thesis in the regular term.

Despite the abovementioned deficiencies, I recommend the thesis for final defense.

Plagiarism control: The system Theses.cz has not assessed the thesis as suspicious.

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