МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ

НАЦІОНАЛЬНИЙ ТЕХНІЧНИЙ УНІВЕРСИТЕТ

“ХАРКІВСЬКИЙ ПОЛІТЕХНІЧНИЙ ІНСТИТУТ”

Кафедра “Автоматизовані системи управління”

КУРСОВА РОБОТА

«Проектування та реалізація програмного забезпечення для представлення та взаємодії елементів гри “Fifteen” використанням бібліотеки C++».

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[ Coursework Report ]

Analyzing Business Processes, Software Design and Technology Stack Selection, Design and Development of a Software Audit System, System Deployment, and System Functioning

Introduction

-Briefly introduce the purpose of the coursework report.

-Provide an overview of the topics covered: analyzing business processes, software design and technology stack selection, design and development of a software audit system, system deployment, and system functioning.

Analyzing Business Processes

-Explain the importance of analyzing business processes in software development.

-Describe the methods used to analyze business processes, such as interviews, process mapping, and data analysis.

-Present a case study or example to illustrate the process analysis.

Software Design and Technology Stack Selection

-Discuss the significance of software design in developing an effective software system.

-Explain the factors to consider when selecting a technology stack, including scalability, security, performance, and compatibility.

-Present a case study or example showcasing the process of technology stack selection.

Design and Development of a Software Audit System

-Provide an overview of a software audit system and its purpose.

-Describe the key components and features of a software audit system.

-Explain the software development methodologies used for designing and developing the system (e.g., Agile, Waterfall).

-Illustrate the system design and development process with a case study or example.

System Deployment

-Discuss the process of deploying a software system, including installation, configuration, and testing.

-Explain the challenges and considerations in deploying a software system.

-Outline the steps involved in deploying the software audit system developed in the previous section.

-Highlight any specific tools or technologies used for system deployment.

System Functioning and Tuning

-Describe the concept of system functioning and its importance in software development.

-Explain the techniques and strategies for monitoring and optimizing system performance.

-Discuss the process of system tuning, including identifying bottlenecks and implementing performance improvements.

-Present a case study or example demonstrating system functioning and tuning.

Conclusion

-Summarize the key points discussed in the coursework report.

-Emphasize the importance of analyzing business processes, software design, and system deployment for successful software development.

-Highlight the significance of system functioning and tuning in maintaining an efficient software system.

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