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**KULLIYYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE**

**FINAL YEAR PROGRESS REPORT**

**PROJECT ID**

YOUR PROJECT ID

**PROJECT TITLE**

YOUR PROJECT TITLE

**STUDENT(S)**

1. STUDENT NAME 1 (MATRIC NO. 1)
2. STUDENT NAME 2 (MATRIC NO. 2)

**SUPERVISOR**

SUPERVISOR’S NAME

JANUARY 2024

SEMESTER 1 2024/2025

**FINAL YEAR PROGRESS REPORT**

**PROJECT ID**

YOUR PROJECT ID

**PROJECT TITLE**

YOUR PROJECT TITLE

**PROJECT CATEGORY**

YOUR PROJECT CATEGORY

by

1. STUDENT NAME 1 (MATRIC NO. 1)
2. STUDENT NAME 2 (MATRIC NO. 2)

SUPERVISED BY

SUPERVISOR’S NAME

In partial fulfillment of the requirement for the

Bachelor of Computer Science

Kuliyyah of Information and Communication Technology

International Islamic University Malaysia

**ACKNOWLEDGEMENTS**

All praise to Allah SWT

# ABSTRACT

Many of us have faced floods in our life in Malaysia.

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CSS Cascading Style Sheets

# CHAPTER ONE

# INTRODUCTION (Research Project)

## 1.1 Background of Study

Explains the general context of the research and its importance. Identifies the problem area and the motivation for the study.

## 1.2 Problem Statement

Clearly outlines the specific issue or problem the research is addressing.

## 1.3 Research Objectives

Lists the key objectives that the research aims to achieve.

## 1.4 Research Questions

Presents the questions the research will answer.

## 1.5 Significance of the Study

Highlights the importance of the study, including its contributions to the field.

## 1.6 Scope of the Study

Defines the boundaries and limitations of the research.

## 1.7 Structure of the Report

Provides a brief overview of the report’s structure.

# CHAPTER ONE

# INTRODUCTION (System Development Project)

## Background of the Study

## Provides an overview of the problem or opportunity the system is designed to address.

## Problem Description

Clearly define the problem or challenge the system aims to solve and provide a rationale for its necessity.

## Project Objectives

Lists the goals or specific outcomes expected from the system development project.

## Scope of the Project

1. Scope
2. Target Audience
3. Specific Platform

## Constraints

This section outlines any limitations or restrictions that might affect the project. Constraints could relate to time, budget, technology, or resource availability. Understanding these limitations helps set realistic expectations and plan accordingly.

## Project Stages

This section breaks down the key phases or stages of the project. It provides a roadmap from the start to the completion of the system development. Each stage typically includes requirement gathering, design, development, testing, and deployment.

## Significance of the Project

This section discusses the importance and impact of the project. It explains why the project is necessary and what benefits it will bring to the intended users, stakeholders, or industry. The significance may include cost savings, efficiency improvements, or innovative solutions.

## Summary

The summary briefly summarises the key points discussed in Chapter 1. It ties together the problem statement, objectives, scope, and significance, setting the stage for the next chapters.

# CHAPTER TWO

# REVIEW OF PREVIOUS WORK (Research Project)

## 2.1 Introduction

An overview of the purpose of the literature review.

## 2.2 Theoretical Framework (if any)

Describes relevant theories or models that underpin the research.

## 2.3 Review of Related Studies

This section discusses existing research related to the study, summarizing and analyzing prior work. It also identifies gaps in the literature that the current research aims to address. Supervisors should ensure that the number of articles reviewed is adequate to support meaningful research progress within one semester.

## 2.4 Conceptual Framework (if any)

This section presents a conceptual framework based on the literature, showing how the study's variables or ideas are linked.

## 2.5 Summary

Concludes the chapter by summarizing key points and linking the review to the current study.

# CHAPTER TWO

# REVIEW OF PREVIOUS WORK (System Development Project)

## Introduction

## The introduction provides an overview of the chapter and outlines the importance of reviewing existing systems, technologies, and frameworks related to the project.

## Overview of Related Systems

Reviews existing systems or technologies like the one being developed.

1. Advantage
2. Disadvantage

## Discussion

Provides a review of the system's technologies, programming languages, tools, and frameworks. Explain why these technologies were chosen over others, considering efficiency, scalability, and compatibility factors.

## Summary

Summarize the key points from the literature and explain how the findings will influence the development of the system.

# CHAPTER THREE

# METHODOLOGY (Research Project)

## 3.1 Research Design

Describe the overall approach or strategy of the research (qualitative, quantitative, or a combination of qualitative and quantitative methods).

## 3.2 Population and Sample:

Defines the population, sampling method, and sample size.

## 3.3 Data Collection Methods:

Describe the tools, techniques, or instruments used to collect data (e.g., surveys, interviews, experiments).

## 3.4 Data Analysis Methods:

Explain how the data will be analyzed (e.g., statistical techniques, content analysis).

## 3.5 Ethical Considerations (if any):

Discuss any ethical concerns and how they will be addressed (e.g., consent, confidentiality).

# CHAPTER THREE

# METHODOLOGY (System Development Project)

## 3.1 Introduction

This section provides an overview of the methodology being used in the system development project. It outlines the methodology's purpose and sets the stage for how the system will be developed, tested, and deployed.

## 3.2 Development Approach

This section describes the specific model being used for the project. Depending on the project's nature, the model may be Agile, Waterfall, or another approach. It explains how the system will be built in stages, including planning, design, coding, testing, and deployment. Justify the chosen development approach and how it fits the project's needs and constraints.

## 3.3 Requirements Specification

Describes the methods used to gather system requirements, such as stakeholder interviews, questionnaires, or requirement analysis sessions.

## 3.4 Logical Design

Provides an overview of the pre-production phase of preparing system design documents. Includes preliminary design diagrams such as:

1. System Analysis and Design Diagram
2. Data Flow Diagram (if any)

## 3.5 Database Design (if applicable)

Explaining the initial database structure, such as entity-relationship diagrams (ERD).

## Prototype or Wireframes:

This section provides the system's initial design through high-fidelity prototypes or wireframes visually representing the user interface (UI) and main functionalities.

## Summary

The summary briefly overviews the methodology chapter, emphasizing the development approach, the prototyping process, and the rationale behind key decisions.

# CHAPTER FOUR

# RESULT AND DISCUSSION (Research Project)

## 4.1 Introduction

Overview of Results: Provides a summary of the data collected, including relevant figures, tables, and charts. Each result should be linked to the research objectives or questions.

## 4.2 Interpretation of Findings

Discusses the results in depth, interpreting their meaning and significance. Explain how the results address the research questions or objectives.

## 4.3 Comparison with Existing Literature

Compare your findings with previous studies to identify similarities, differences, or new contributions to the field. Highlight whether your results support, contradict, or expand upon existing literature.

## 4.4 Implications of the Findings

Discusses the research's practical, theoretical, or policy implications. Explains the relevance and potential applications of the findings in real-world scenarios or future research.

## 4.5 Limitations

Acknowledges any limitations of the study that could have affected the results or the interpretation of findings—suggestions for overcoming these limitations in future research.

# CHAPTER FOUR

# RESULT AND DISCUSSION (System Development Project)

## 4.1 System Development Process (Implementation)

This section should document how the system was implemented, including the tools, frameworks, and methods used throughout the development phase. The goal is to explain how the system progressed from design to a fully functional product.

## Implementation Steps

1. Frontend Implementation: Discuss how the frontend was developed, focusing on the user interface (UI) and user experience (UX).
2. Backend Implementation: Describe how the backend logic was implemented. This could include data handling, API development, business logic, and integration with external services.
3. Integration: Explain how different system components (e.g., frontend, backend, and database) were integrated to form a cohesive and functional system.

## Types of Testing

1. Unit Testing: Explain the testing of individual components or modules. Describe how functions, classes, or methods were tested to ensure they behave correctly in isolation.
2. Integration Testing: Discuss how integrated components were tested to ensure they work together as expected.
3. System Testing: Describe the testing of the complete system to verify that it meets the specified requirements.
4. User Acceptance Testing (UAT): If applicable, describe how end users tested the system to ensure it meets their expectations.

## Test Cases

Provide specific test cases designed to verify the functionality and performance of the system. For each test case, include:

1. What test case is designed to verify (e.g., login functionality, data retrieval accuracy)?
2. Steps: A step-by-step explanation of how the test was conducted.
3. Expected Outcome: What was expected to happen after executing the test?
4. Actual Outcome: What happened after the test was run?
5. Pass/Fail: Whether the test passed or failed based on comparing expected and actual outcomes.

# CHAPTER FIVE

# CONCLUSION (Research Project)

## 5.1 Summary of the Study

Recapitulates the overall research process, including the research problem, objectives, methodology, and key findings.

## 5.2 Key Contributions

Highlights the main contributions of the research to the field or to practice.

## 5.3 Future Work

Provides actionable recommendations for industry practitioners, policymakers, or future researchers. Suggests areas for further research based on the findings and limitations of the current study.

## 5.4 Final Remarks

Concludes the report with closing thoughts, reflecting on the research journey and the significance of the study’s outcomes.

# CHAPTER FIVE

# CONCLUSION (System Development Project)

## 5.1 Summary of System Development

Provide a brief overview of the system development process. Mention key milestones in the development lifecycle, including design, implementation, and testing phases. Highlight significant achievements such as successfully integrating complex features, overcoming technical challenges, or achieving performance targets.

## 5.2 Evaluation of Project Success

This section evaluates how the project achieved its goals and delivered on the proposed functionalities.

1. Achievements: Discuss the successful implementation of key features and how well the system meets user needs.
2. Challenges Overcome: Acknowledge any technical or operational hurdles resolved during development.
3. Project Goals Met: State whether the original goals were fully or partially achieved.

## 5.3 Limitations of the System

Acknowledge any limitations or constraints of the system. This section is important for honestly evaluating the project’s shortcomings. It may include technical limitations, incomplete features, or areas that require further optimization.

## 5.4 Recommendations for Future Work

Suggest further development or work that could enhance the system. This is a forward-looking section where you discuss how the project can be extended, improved, or optimized. This could involve adding new features, improving performance, or addressing limitations identified during testing.

# REFERENCES

Fei, L. S. (2015, April). Assessment of Flood Hazard Risk Based on Catastrophe Theory in Flood Detention Basins. Retrieved December 20, 2022, from <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5774402&tag=1>

Fauziana, A., Tomoki, U., & Takahiro, S. (2017). Determination of Z-R Relationship and Inundation Analysis for Kuantan River. Research Publication No. 2, 1–39.Retrieved from

<http://www.met.gov.my/data/research/researchpapers/2017/researchpaper_201702.pdf>

**APPENDICES (Research Project)**

1. **GANTT CHART**

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**Figure 14:** Gantt Chart of Flood Forecasting System Development

1. **RESEARCH INSTRUMENT (IF ANY).**

Includes any survey, interview, or data collection instruments used in the study.

1. **DIVISION OF WORK (FOR GROUP PROJECTS).**

A breakdown of each group member's tasks and responsibilities.

**APPENDICES (System Development Project)**

1. **GANTT CHART**

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**Figure 14:** Gantt Chart of Flood Forecasting System Development

1. **DIVISION OF WORK (FOR GROUP PROJECTS).**

A breakdown of each group member's tasks and responsibilities.