**Title of Your**

**Final Year Design Project**

**By**

**Student-1 Name**

**Student-1 ID**

**Student-2 Name**

**Student-2 ID**

**FINAL YEAR DESIGN PROJECT REPORT**

This Report Presented in Partial Fulfillment of the Requirements for the **Degree of Bachelor of Science in Computer Science and Engineering**

### Supervised by

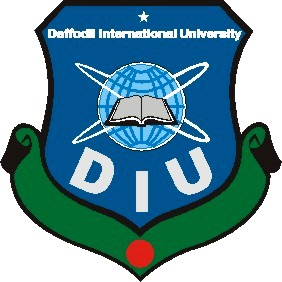
#### Supervisor Name Designation

Department of Computer Science and Engineering Daffodil International University

### Co-Supervised by

#### Co-Supervisor Name Designation

Department of Computer Science and Engineering Daffodil International University



### DAFFODIL INTERNATIONAL UNIVERSITY

**Dhaka, Bangladesh**

**November 12, 2024**

**APPROVAL**

This Project titled “**Write Your Title Here**,” submitted by [**write your name**] and [**write your group member’s name (if any)**] to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on **26-01-2024**.

**BOARD OF EXAMINERS**

**Name**

**Board Chairman**

Designation, Department of CSE, FSIT Daffodil International University

**Name**

**Internal Examiner 1**

Designation, Department of CSE, FSIT Daffodil International University

**Name**

**Internal Examiner 2**

Designation, Department of CSE, FSIT Daffodil International University

**Name**

**External Examiner**

Designation, Department of CSE, FSIT Daffodil International University

## DECLARATION

We hereby declare that this project has been done by us under the supervision of **Name of the Supervisor**, **Supervisor’s Designation**, Department of Computer Science and Engineering, Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for the award of any degree or diploma.

**Supervised by:**

**Supervisor Name**

Designation

Department of Computer Science and Engineering Daffodil International University

**Co-Supervised by:**

**Co-Supervisor Name**

Designation

Department of Computer Science and Engineering Daffodil International University

**Submitted by:**

**Team Member 1 Name**

Student ID:

Department of Computer Science and Engineering Daffodil International University

**Team Member 2 Name (if any)**

Student ID:

Department of Computer Science and Engineering Daffodil University

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We are grateful and wish our profound indebtedness to **Supervisor Name**, **Supervisor’s Designation**, Department of Computer Science and Engineering, Daffodil International University, Dhaka, Bangladesh. Deep knowledge and keen interest of our supervisor in the field of **Write the field name here** to carry out this project. His endless pa- tience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts, and correcting them at all stages have made it possible to complete this project.

We would like to express our heartfelt gratitude to the Head of the Department of Com- puter Science and Engineering, for his kind help in finishing our project and also to other faculty members and the staff of the Department of Computer Science and Engineering, Daffodil International University.

We would like to thank our entire course-mates at Daffodil International University, who took part in this discussion while completing the coursework.

Finally, we must acknowledge with due respect the constant support and patience of our parents.

## ABSTRACT

The abstract should contain a summary of the work presented in this report in **a single paragraph**. An abstract is a concise, well-developed paragraph typically between **100 and 300 words**, often adhering to a strict word limit. Its purpose is to provide a brief overview of all key aspects of the paper, giving readers a snapshot of the content. A strong abstract is succinct yet impactful, offering enough detail to convey the main points without unnecessary elaboration. To craft an effective abstract, it is essential to ensure that every word serves a purpose, efficiently summarizing the research while highlighting its relevance, methodology, findings, and conclusions. The goal is to give readers a clear understanding of the paper’s value in a minimal amount of space. The paragraph should provide a general background of the problem, methodology, results, and implication.

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**Chapter 1**

# Introduction

**[*Must be present in Phase-1 Progress Report and also in the Final Report* ] Every chapter should start with 1-2 sentences on the outline of the chapter.**

### Introduction

This section should present the background and a problem statement that your project aims to solve.

### Motivation

The computational motivation that encourages you to solve the problem should be stated here clearly. In addition, you can mention why solving this problem will benefit you.

### Objectives

Enumerate the objectives in clear and specific terms.

### Methodology

Here you put a summary of the methodology.

### Project Outcome

What are or could be the possible outcomes of your work?

### Organization of the Report

Here put a chapter-wise structure of the report in narrative form.

**Chapter 2**

# Background

**[*Must be present in Phase-1 progress Report and also in the Final Report* ] Every chapter should start with 1-2 sentences on the outline of the chapter.**

### Introduction

In this section, you have to provide the necessary background knowledge to understand the rest of the report [[1].](#_bookmark62)

### Literature Review

This section will contain your literature review. [[2]](#_bookmark63) You can use the following table.

Table 2.1: Summary of Literature Reviewed.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Author (s)** | **Year** | **Title** | **Methodology** | **Key Findings** |
| Doe et al. | 2020 | A Comprehensive  Study on Data Science | Qualitative Anal-  ysis | Found significant  trends in data science applications. |
| Smith | 2018 | Machine Learning  in Healthcare | Survey-based | Highlighted the ma-  jor algorithms used in healthcare for predic- tion. |
| Johnson et  al. | 2019 | AI for Financial  Forecasting | Quantitative  Analysis | Demonstrated the  effectiveness of AI in improving financial decision-making. |
| Williams  [[3]](#_bookmark64) | 2021 | Blockchain in  Supply Chain Management | Case Study | Showcased the poten-  tial of blockchain to enhance supply chain transparency. |

Chapter 2. Background 2.3. Gap Analysis

#### Similar Applications

Put a summary of similar research study, case study, methodological contribution of other papers, web applications, and mobile apps similar to your work.

#### Related Research

Here is the summary of the investigation of the research literature.

### Gap Analysis

Here summaries the gap where you intend to work.

*Sample Table*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Features** | **TechLandbd** | **Ryans** | **Computer Village** | **StarTech** | **Paragon-Computer bd** | **Proposed system** |
| Like or dislike to products | No | No | No | No | No | Yes |
| Filtering liked and disliked products | No | No | No | No | No | Yes |
| Add to favorite or wishlist | Yes | Yes | Yes | Yes | Yes | Yes |
| Search option of products | Yes | Yes | Yes | Yes | Yes | Yes |
| Detailed descriptions of products | Yes | Yes | Yes | Yes | Yes | Yes |
| Offers collection | Yes | Yes | Yes | Yes | Yes | Yes |
| Customer reviews and ratings | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiple payment options | Yes | Yes | Yes | Yes | Yes | Yes |
| FAQs option | No | Yes | Yes | Yes | No | Yes |
| Chatting option | Yes | Yes | Yes | No | Yes | No |
| Recommendations or filtering latest products | Yes | Yes | Yes | Yes | Yes | Yes |
| Product add to cart | Yes | Yes | Yes | Yes | Yes | Yes |
| PC Builder | Yes | Yes | Yes | Yes | No | Yes |
| Quick view | Yes | Yes | No | No | Yes | Yes |

### Summary

Provide a brief summary of this section here.

**Chapter 3**

# Research Methodology

**[Must be present in Phase-1 Progress Report and also in The Final Report] Every chapter should start with 1-2 sentences on the outline of the chapter.**

### Methodology/Requirement Analysis & Design Specifi cation

#### Overview

#### Proposed Methodology/ System Design

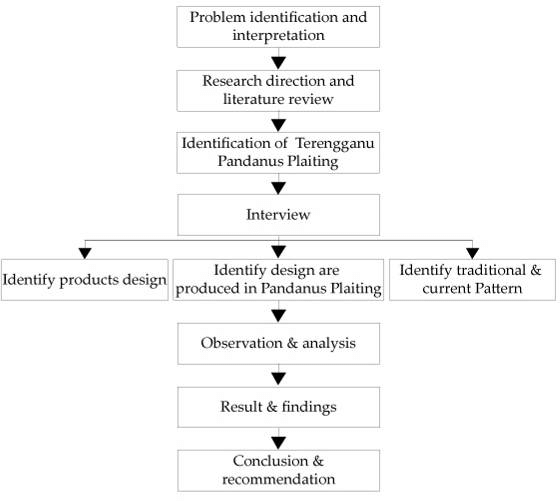


Figure 3.1: This is a sample diagram

Chapter 3. Research Methodology 3.2. Detailed Methodology and Design

#### Functional and Nonfunctional Requirements

#### Context Diagram

#### Data Flow Diagram Level 1

#### UI Design

### Detailed Methodology and Design

You have to mention alternate solutions that you have considered. Why you have selected the specific solution, etc.

### Project Plan

### Task Allocation

### Summary

Provide a brief summary of this section here.

**Chapter 4**

# Implementation and Results

[Must be present in the Final Report. Incomplete version might be included in Phase-1 Progress Report, however it is optional.]

Every chapter should start with 1-2 sentences on the outline of the chapter.

### Environment Setup

### Testing and Evaluation/Performance/ Comparative Anal ysis

### Results and Discussion

### Summary

Provide a brief summary of this section here.

**Chapter 5**

# Engineering Standards and Design Challenges

[Must be present in Phase-1 Progress Report and also in Final Report] Every chapter should start with 1-2 sentences on the outline of the chapter.

### Compliance with the Standards

Only mention the standards that are related to your project. This list is not complete. For each of the standards discuss the alternates with pros and cons and rationale of selection.

#### Software Standards

#### Hardware Standards

#### Communication Standards

### Impact on Society, Environment and Sustainability

#### Impact on Life

#### Impact on Society & Environment

#### Ethical Aspects

#### Sustainability Plan

### Project Management and Financial Analysis

Provide a cost analysis in terms of budget required and revenue model. In case of budget, you must show an alternate budget and rationales.

Chapter 5. Engineering Standards and Design Challe5n.4g.esComplex Engineering Problem

### Complex Engineering Problem

#### Complex Problem Solving

In this section, provide a mapping with problem solving categories. For each mapping add subsections to put rationale (Use Table [5.1).](#_bookmark52) For P1, you need to put another mapping with Knowledge profile and rational thereof.

Table 5.1: Mapping with complex problem solving.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| EP1  Dept of Knowledge | EP2  Range  Of Conflicting Requirements | EP3  Depth of Analysis | EP4  Familiarity of Issues | EP5  Extent of Applicable Codes | EP6  Extent  Of Stake- holder Involvement | EP7  Interdependence |
|  |  |  |  |  |  |  |

**Mapping with Knowledge Profile for EP1**

This table [5.2)](#_bookmark53) is designed to map the EP1 to the Knowledge Profile.

Table 5.2: Mapping with knowledge Profile.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| K3  Engineering Fundamentals | K4  Specialist Knowledge | K5  Engineering Design | K6  Engineering Practice | K8  Research Literature |
|  |  |  |  |  |

#### Engineering Activities

In this section, provide a mapping with engineering activities. For each mapping add subsections to put rationale (Use Table [5.3).](#_bookmark56)

### Summary

Chapter 5. Engineering Standards and Design Challenges 5.5. Summary

Table 5.3: Mapping with complex engineering activities.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EA1  Range of re- sources | EA2  Level of Interaction | EA3  Innovation | EA4  Consequences for society and environment | EA5  Familiarity |
|  |  |  |  |  |

**Chapter 6**

# Conclusion

**[Must be present in Phase-1 Progress Report and also in the Final Report. Might be incomplete in FYDP-1 Report.]**

**Every chapter should start with 1-2 sentences on the outline of the chapter.**

### Summary

### Limitation

### Future Work

# References

*[References should be in IEEE format]*

1. Jon Kleinberg and Eva Tardos. *Algorithm design*. Pearson Education India, 2006.
2. First Author and Second. Article title. *Journal Name*, Volume Number(Issue Num- ber):Start Page–End Page, Year of Publication.
3. John Smith and Jane Doe. The impact of climate change on coastal ecosystems. *Nature Climate Change*, 13(2):123–145, 2023.