**Title of Your Mini Lab Project**

### Submitted By

|  |  |
| --- | --- |
| **Student Name** | **Student ID** |
| Student-1 Name | Student-1 ID |
| Student-2 Name | Student-2 ID |
| Student-3 Name | Student-3 ID |
| Student-4 Name | Student-4 ID |
| Student-5 Name | Student-5 ID |

**MINI LAB PROJECT REPORT**

This Report Presented in Partial Fulfillment of the course **CSEXXX: Subject Name in the Computer Science and Engineering Department**



### DAFFODIL INTERNATIONAL UNIVERSITY

**Dhaka, Bangladesh**

**November 2, 2024**

## DECLARATION

We hereby declare that this lab project has been done by us under the supervision of **Name of the course teacher**, **course teacher’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 as lab projects.

**Submitted To:**



**Course Teacher’s Name**

Designation

Department of Computer Science and Engineering Daffodil International University

**Submitted by**

|  |  |
| --- | --- |
| Student Name Student ID:  Dept. of CSE, DIU | |
| Student Name Student ID:  Dept. of CSE, DIU | Student Name Student ID:  Dept. of CSE, DIU |
| Student Name Student ID:  Dept. of CSE, DIU | Student Name Student ID:  Dept. of CSE, DIU |

## COURSE & PROGRAM OUTCOME

The following course have course outcomes as following:.

Table 1: Course Outcome Statements

|  |  |
| --- | --- |
| **CO’s** | **Statements** |
| CO1 | **Define** and **Relate** classes, objects, members of the class, and relationships among  them needed for solving specific problems |
| CO2 | **Formulate** knowledge of object-oriented programming and Java in problem solving |
| CO3 | **Analyze** Unified Modeling Language (UML) models to **Present** a specific problem |
| CO4 | **Develop** solutions for real-world complex problems **applying** OOP concepts while  evaluating their effectiveness based on industry standards. |

Table 2: Mapping of CO, PO, Blooms, KP and CEP

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CO** | **PO** | **Blooms** | **KP** | **CEP** |
| CO1 | PO1 | C1, C2 | KP3 | EP1, EP3 |
| CO2 | PO2 | C2 | KP3 | EP1, EP3 |
| CO3 | PO3 | C4, A1 | KP3 | EP1, EP2 |
| CO4 | PO3 | C3, C6, A3,  P3 | KP4 | EP1, EP3 |

The mapping justification of this table is provided in section **4.3.1**, **4.3.2** and **4.3.3**.

# Table of Contents

**Declaration** [**i**](#_30j0zll)

**Course & Program Outcome** [**ii**](#_3znysh7)

1. **Introduction** [**1**](#_2et92p0)
   1. Introduction [1](#_tyjcwt)
   2. Motivation [1](#_3dy6vkm)
   3. Objectives [1](#_1t3h5sf)
   4. Feasibility Study [1](#_4d34og8)
   5. Gap Analysis [1](#_2s8eyo1)
   6. Project Outcome [1](#_17dp8vu)
2. **Proposed Methodology/Architecture** [**2**](#_3rdcrjn)
   1. Requirement Analysis & Design Specification [2](#_26in1rg)
      1. Overview [2](#_lnxbz9)
      2. Proposed Methodology/ System Design [2](#_35nkun2)
      3. UI Design [2](#_1ksv4uv)
   2. Overall Project Plan [2](#_44sinio)
3. **Implementation and Results** [**3**](#_2jxsxqh)
   1. Implementation [3](#_z337ya)
   2. Performance Analysis [3](#_3j2qqm3)
   3. Results and Discussion [3](#_1y810tw)
4. **Engineering Standards and Mapping** [**4**](#_4i7ojhp)
   1. Impact on Society, Environment and Sustainability [4](#_2xcytpi)
      1. Impact on Life [4](#_1ci93xb)
      2. Impact on Society & Environment [4](#_3whwml4)
      3. Ethical Aspects [4](#_2bn6wsx)
      4. Sustainability Plan [4](#_qsh70q)
   2. Project Management and Team Work [4](#_3as4poj)
   3. Complex Engineering Problem [4](#_1pxezwc)
      1. Mapping of Program Outcome [4](#_49x2ik5)
      2. Complex Problem Solving [4](#_2p2csry)
      3. Engineering Activities [5](#_147n2zr)

Table of Contents Table of Contents

1. **Conclusion** [**6**](#_3o7alnk)
   1. Summary [6](#_23ckvvd)
   2. Limitation [6](#_ihv636)
   3. Future Work [6](#_32hioqz)

**References** [**6**](#_32hioqz)

**Chapter 1**

# Introduction

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.

Ami je project ta banassi setar somporke kisu line

### 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.

Amr ei project er benefit ki , lok joner er ki kaj e asbe

### Objectives

Enumerate the objectives in clear and specific terms.

1-2 liner er moddhe amr project er moddhe(to build a automated system & online add and remove admission)

### Feasibility Study

Put a summary of similar research study, case study, methodological contribution of existing projects, web applications, and mobile apps similar to your work [[1].](#_3l18frh)

Amr requirement ase kina , egula amr sob facilites ke fulfil kore kina

### Gap Analysis

Here summaries the gap where you intend to work.

Onno project e je gap ta ase , seta r je onsho niye ei project e kaj korsi

### Project Outcome

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

Project er result ki asha kori ba ki ki kaj korte partesi

**Chapter 2**

# Proposed Methodology/Architecture

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

### Requirement Analysis & Design Specification

#### Overview

Starting discussion

#### Proposed Methodology/ System Design

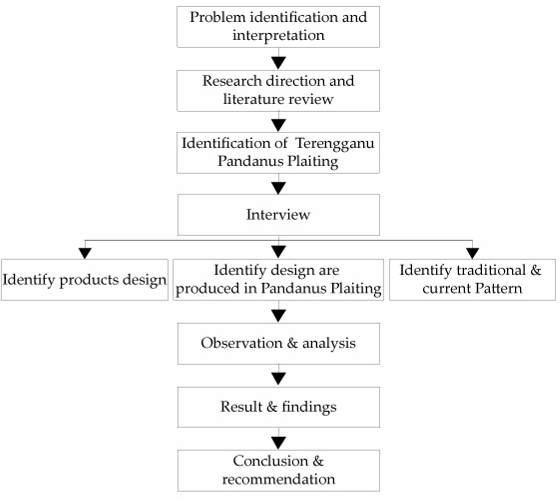


Figure 2.1: This is a sample diagram

#### UI Design

Amr UI ta dekhte kmn hobe seta point akare likhe dibo

### Overall Project Plan

Pre discussion of the project

**Chapter 3**

# Implementation and Results

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

### Implementation

Amr ei project ta kothay implement kora jbe ? ba kothay kaje laagano jabe

### Performance Analysis

1. Not applicable for this project

### Results and Discussion

1. Result and discussion (result er ss gula dibo)

**Chapter 4**

# Engineering Standards and Mapping

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

### Impact on Society, Environment and Sustainability

#### Impact on Life

#### Impact on Society & Environment

#### Ethical Aspects

#### Sustainability Plan

My plan about my project in above sector

### Project Management and Team Work

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

Our management of the project and distribution of work among team members.

### Complex Engineering Problem

#### Mapping of Program Outcome

In this section, provide a mapping of the problem and provided solution with targeted Program Outcomes (PO’s).

Table 4.1: Justification of Program Outcomes

|  |  |
| --- | --- |
| **PO’s** | **Justification** |
| PO1 | Justification of PO1 attainment |
| PO2 | Justification of PO2 attainment |
| PO3 | Justification of PO3 attainment |

#### Complex Problem Solving

In this section, provide a mapping with problem solving categories. For each mapping add subsections to put rationale (Use Table [4.2).](#_2r0uhxc) For P1, you need to put another mapping with

Chapter 4. Engineering Standards and Mapping 4.3. Complex Engineering Problem

Knowledge profile and rational thereof.

Table 4.2: 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 Stakeholder Involvement | **EP7**  Inter- dependence |
|  |  |  |  |  |  |  |

#### Engineering Activities

In this section, provide a mapping with engineering activities. For each mapping add subsections to put rationale (Use Table [4.3).](#_3q5sasy)

Table 4.3: Mapping with complex engineering activities.

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

**Chapter 5**

# Conclusion

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

### Summary

### Limitation

### Future Work

# References

[1] Jon Kleinberg and Eva Tardos. *Algorithm design*. Pearson Education India, 2006.