### **Bank Management System**

### **Submitted By**

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#### 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'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                          |                      |
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### **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  | <b>Develop</b> solutions for real-world complex problems <b>applying</b> 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,<br>P3 | KP4 | EP1, EP3 |

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

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### Introduction

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

#### 1.1 Introduction

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

#### 1.2 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.

### 1.3 Objectives

Enumerate the objectives in clear and specific terms.

### 1.4 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].

### 1.5 Gap Analysis

Here summaries the gap where you intend to work.

### 1.6 Project Outcome

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

### **Proposed Methodology/Architecture**

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

- 2.1 Requirement Analysis & Design Specification
- 2.1.1 Overview
- 2.1.2 Proposed Methodology/ System Design

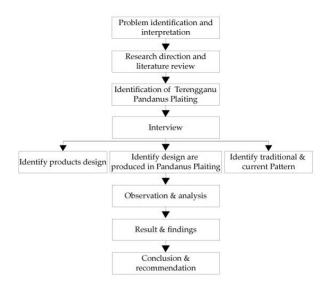


Figure 2.1: This is a sample diagram

- 2.1.3 UI Design
- 2.2 Overall Project Plan

# Implementation and Results

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

- 3.1 Implementation
- 3.2 Performance Analysis
- 3.3 Results and Discussion

### **Engineering Standards and Mapping**

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

#### 4.1 Impact on Society, Environment and Sustainability

- 4.1.1 Impact on Life
- 4.1.2 Impact on Society & Environment
- 4.1.3 Ethical Aspects
- 4.1.4 Sustainability Plan

### 4.2 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.

#### 4.3 Complex Engineering Problem

#### 4.3.1 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 |

#### 4.3.2 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). For P1, you need to put another mapping with

Knowledge profile and rational thereof.

Table 4.2: Mapping with complex problem solving.

| EP1 Dept of Knowledge | EP2 Range of Conflicting Requiremen ts | EP3 Depth of Analysis | EP4 Familiarity of Issues | EP5 Extent of Applicable Codes | EP6 Extent Of Stakeholder Involvement | EP7 Inter- dependence |
|-----------------------|--|-----------------------|---------------------------|--------------------------------|---------------------------------------|-----------------------|
|                       |  |                       |                           |                                |                                       |                       |

### 4.3.3 Engineering Activities

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

Table 4.3: Mapping with complex engineering activities.

| EA1 Range of resources  EA2 Level of Interaction |  | EA3 Innovation | EA4 Consequences for society and environment | <b>EA5</b><br>Familiarity |
|--|--|----------------|--|---------------------------|
|  |  |                |  |                           |

### **Conclusion**

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

- 5.1 Summary
- 5.2 Limitation
- **5.3** Future Work

# References

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