



Green University of Bangladesh

*Department of Computer Science and Engineering (CSE)
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Bank Management System

*Course Title: Database System Lab
Course Code: CSE 210
Section: 221 D1*

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<u>Lab Project Status</u>	
Marks:	Signature:
Comments:	Date:

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Chapter 1

Introduction

1.1 Overview

The Bank Management System is a comprehensive software solution crafted to revolutionize the operational efficiency of financial institutions. This system integrates a set of modules to automate and optimize key banking processes, ranging from customer management to transaction processing. By leveraging technology, the system aims to enhance accuracy, speed, and security in handling diverse financial transactions.

1.2 Motivation

•**Relevance to Industry Trends:** The banking sector is undergoing a digital transformation, and a Bank Management System project aligns with current industry trends.

•**Practical Application of Knowledge:** Provides a practical application of programming, database management, and system design concepts learned in coursework.

•**Career Readiness:** Developing expertise in building financial systems enhances my career readiness for roles in software development, fintech, or the broader IT industry.

•**Problem-Solving and Innovation:** Think critically and innovatively about how to address existing issues in traditional banking systems..

•**Interdisciplinary Learning:** The project inherently involves understanding both technical and financial aspects, fostering interdisciplinary learning.

•**Social Impact:** Enhancing banking processes contribute o the broader goal of financial inclusion and accessibility..

•**Project Management Skills:** Provides an opportunity to enhance project management skills.

•**Portfolio Development:** Adds a significant and tangible item to your portfolio..

•**Learning from Industry Challenges:** Helps me to understand the practical constraints and demands of real-world applications.

Educational Growth: Academic requirements and contributes to your personal and educational growth. [?].

1.3 Problem Definition

1.3.1 Problem Statement

The existing banking systems often face challenges related to manual processes, data redundancies, and a lack of centralized control. These issues can lead to errors, security vulnerabilities, and prolonged service delivery times. The need for a more streamlined and integrated approach to bank management is evident. Inefficient customer onboarding, time-consuming transaction processing, and difficulty in managing employee workflows are some of the key problems that the Bank Management System project seeks to address. The project aims to provide a solution that not only automates routine tasks but also enhances the overall management and security of banking operations. By identifying and defining these problems, the project sets the stage for the development of a comprehensive system that will revolutionize how banks operate, ensuring a smoother and more efficient experience for both customers and employees.

1.3.2 Complex Engineering Problem

Table 1.1: Summary of the attributes touched by the projects

Name of the P Attributes	Explain how to address
P1: Depth of knowledge required	Computer Science and Software Development DBMS (e.g., MySQL, MongoDB) to build a robust system.
P2: Range of conflicting requirements	—
P3: Depth of analysis required	Data Analytics and Decision-Making
P4: Familiarity of issues	Finance and Banking Operations
P5: Extent of applicable codes	Industry Standards and Regulations
P6: Extent of stakeholder involvement and conflicting requirements	Collaboration and Communication
P7: Interdependence	Integrated System Components

1.4 Design Goals/Objectives

- Efficiency Enhancement • User-Friendly Interfaces
- Data Security and Compliance
- Scalability and Adaptability
- Comprehensive Transaction Tracking
- Automation of Routine Tasks
- Integration of Emerging Technologies
- Enhanced Customer Service
- Facilitation of Reporting and Analytic

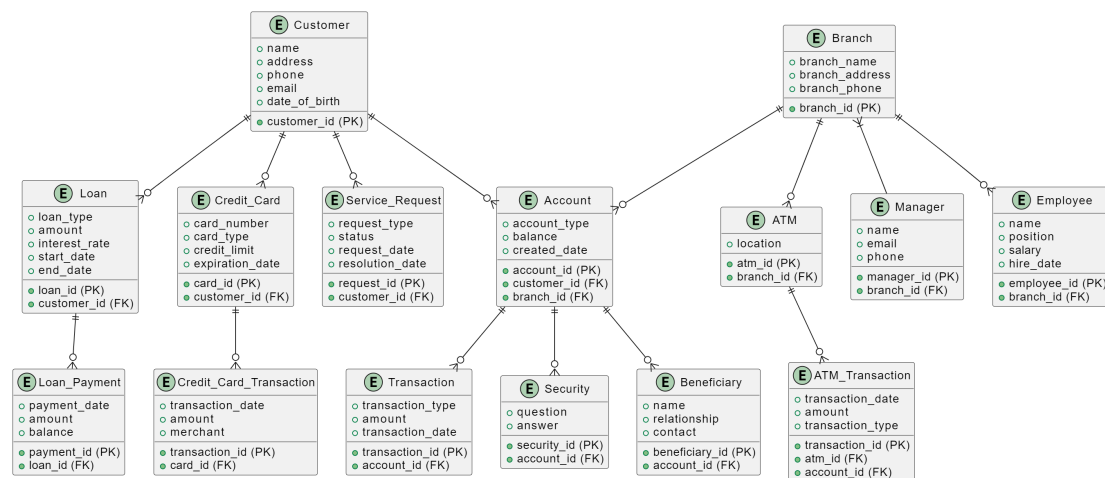


Figure 1.1: Schema Diagram

1.5 Application

Modernizing Banking Operations.