****

**TOPIC: BANK MANAGEMENT SYSTEM**

|  |  |
| --- | --- |
| **UNAIZA ASIF** | **59268** |

**TOPIC: BANK MANAGEMENT SYSTEM**

**INTRODUCTION:-**

**Project Overview**

A Bank Management System is a software application that helps in managing various activities of a bank, such as opening accounts, managing deposits and withdrawals, viewing account details, updating account information, and deleting accounts. It can be a part of a larger banking system where customers can access their accounts, perform transactions, and manage their finances.

**Objectives**

* Its objectives include ensuring smooth management of accounts, facilitating secure transactions, enhancing customer service, complying with regulatory standards, and integrating modern banking technologies
* The system also helps banks streamline their internal operations and stay competitive in an increasingly digital and globalized financial environment.

**Stakeholders**

* **Customers:** Are responsible for securely managing their account information and using services like deposits, withdrawals, account updates, etc.
* **Bank Employees:** are responsible for operating the system, assisting customers, and managing internal processes.
* **Bank Management/Executives**: They are responsible for the overall performance and success of the banking system, making decisions related to system upgrades, security, compliance, and customer service.

Functional Requirements

* **Account Management**: Account Creation deletion and update
* **Transaction Management**: Deposits, Withdrawals, Transaction History.
* **Balance Inquiry and Reporting** Allow customers to check the available balance in their accounts in real-time.
* **User Authentication and Authorization**: The system must have a secure login process where users can authenticate using their usernames, passwords

Non-Functional Requirements

**Performance**

* The system should provide a fast response to user interactions.
* The system should be able to handle high volumes of transactions, especially during peak hours

**Reliability**

* The system should be available 24/7 with minimal downtime for maintenance, ensuring continuous service availability for customers.
* In the event of a failure, the system should be able to recover within 30 minute

**Security**

* Sensitive data (e.g., customer personal details, account balance, transaction information) should be encrypted
* The system should support multi-factor authentication for both customers and bank employees.

System Constraints

**Technological Constraints**

System Constraints refer to the limitations or restrictions that may affect the design, development, and implementation of a system. For a Bank Management System (BMS), these constraints can be categorized into several areas, such as technical, operational, legal, and business limitations.