## **1. Planning**

### **Objective**

To develop a secure and efficient Bank Management System that allows employees to manage customer accounts, check balances, transfer funds, and close accounts.

### **Key Considerations**

* Security & Compliance (Authentication, Authorization)
* Performance & Scalability
* User Experience
* Data Integrity

### **Stakeholders**

* Bank Managers
* IT Team (Developers, QA, DevOps)
* End-users (Bank Employees)

## **2. Requirement Analysis**

### **Functional Requirements**

1. **Bank Employee Login** – Employees must log in using unique credentials.
2. **Account Creation** – Ability to create new customer accounts with basic details.
3. **Check Account Balance** – View current account balance.
4. **Money Transfer** – Transfer funds from one account to another.
5. **Deduct Money** – Withdraw or debit money from an account.
6. **Close Account** – Permanently delete an account after verification.

### **Non-Functional Requirements**

* The system should have a response time of < 3 seconds.
* Multi-factor authentication (MFA) for security.
* Support up to 10,000 concurrent users.

## **3. Testing**

### **Types of Testing:**

* **Unit Testing:** Individual functions like login, check balance, transfer funds.

## **4. Maintenance**

* **Bug Fixes**
* **Security Updates**
* **Performance Optimization**

## **5. flow chart**

