

# **Software Requirements Specification (SRS) for Banking Management System**

## **1. Introduction**

### **PURPOSE**

Explain the need for the Banking Management System (BMS), addressing the need for efficient customer management, secure transaction processing, and streamlined banking operations.

### **SCOPE**

Define the functionalities the BMS will cover, such as account management, loan processing, transaction history, and customer service. Mention the integration with ATMs, online banking, and mobile banking.

### **OVERVIEW**

Provide a brief description of how the BMS will improve banking operations, enhance customer experience, and ensure data security.

## **2. General Description**

### **FUNCTIONS**

Outline the core functions, such as customer account creation, deposit and withdrawal processing, loan management, and report generation.

### **USER COMMUNITY**

Identify the users, including bank staff (tellers, managers), customers, administrators, and IT support personnel.

## **3. Functional Requirements**

### **POSSIBLE OUTCOMES**

List the desired outcomes, such as successful account creation, transaction approval or denial, balance updates, and generation of transaction receipts.

## **RANKED ORDER**

Prioritize functions based on importance, with core banking functions (like transactions and account management) as high priority and additional features (like personalized recommendations) as lower priority.

## **INPUT-OUTPUT RELATIONSHIP**

Describe how inputs (e.g., deposit amount, withdrawal request) correspond to outputs (e.g., updated balance, transaction confirmation).

## **4. User Interface Requirements**

### **SOFTWARE REQUIREMENTS**

Describe interfaces that will connect the BMS to other systems like payment gateways, ATM networks, and online banking platforms.

### **EXAMPLES**

Provide examples of UI screens for login, account management, transaction details, and reporting. Ensure that the interfaces are intuitive for different types of users, including tellers and customers.

## **5. Performance Requirements**

### **RESPONSE TIME**

Define acceptable response times for key operations, such as login (under 2 seconds), transaction processing (under 1 second), and report generation (under 3 seconds).

## **THROUGHOUT**

Specify the number of concurrent transactions the system should handle without lag, especially during peak times.

## **SCALABILITY**

Ensure the BMS can handle increased users and transactions as the bank grows, supporting expansion to new branches and integration with new services.

# **6. Non-Functional Attributes**

## **USABILITY**

Ensure the system is user-friendly, with minimal training required for bank staff and clear navigation for customers.

## **RELIABILITY**

The system should have minimal downtime, with redundancy measures to protect data and operations.

## **SECURITY**

Emphasize strong security, including encryption, secure access controls, and data protection to prevent unauthorized access or fraud.

# **7. Schedule and Budget**

## **TIMELINE**

Outline the phases of development, testing, deployment, and maintenance, with specific timelines for each phase.

## **COST ESTIMATE**

Provide an estimated budget for development, hardware, maintenance, and upgrades.

## **8. Appendices**

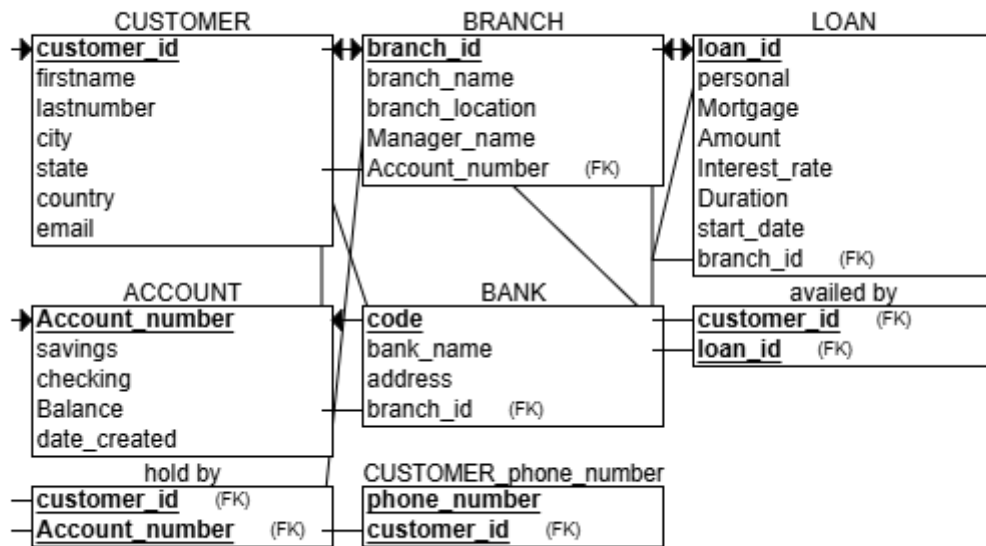
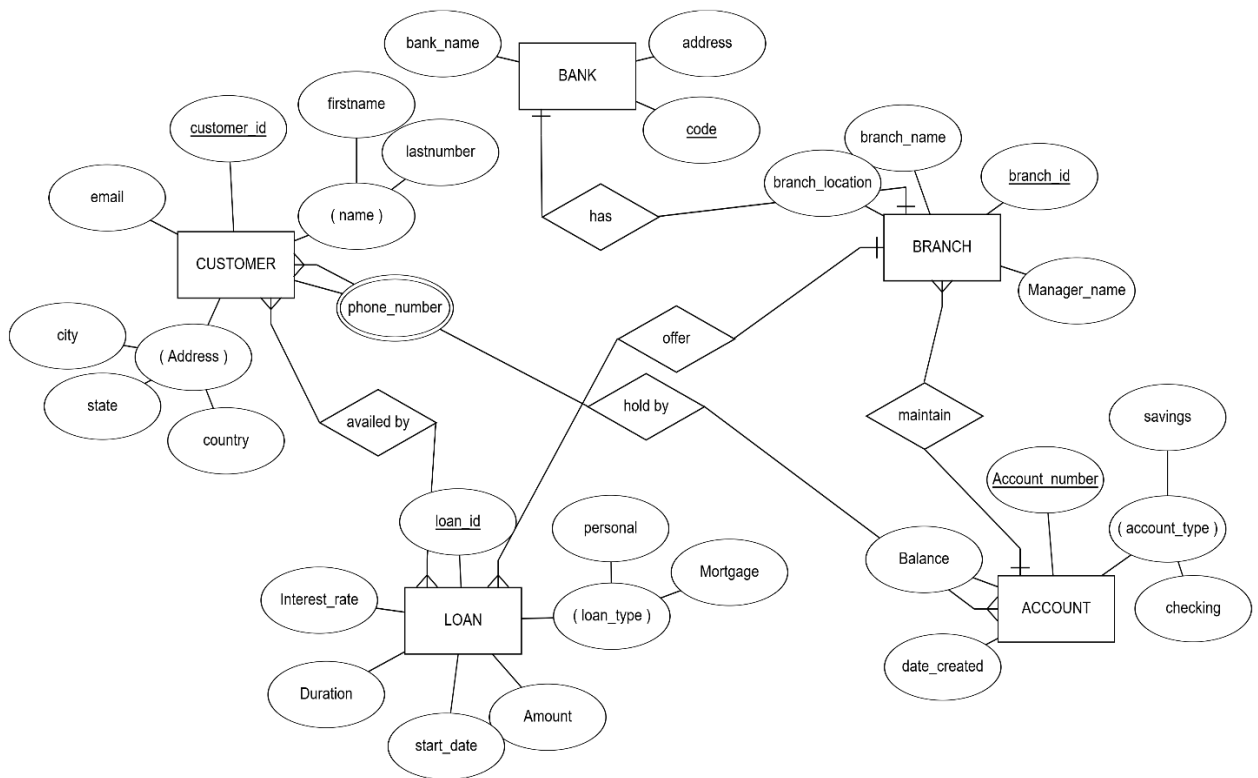
### **SUPPLEMENTARY INFORMATION**

Include references to banking regulations, standards for financial transactions, and system requirements.

### **GLOSSARY**

Define key terms, such as "KYC" (Know Your Customer), "AML" (Anti-Money Laundering), and "SWIFT" (international transaction standard).

This SRS structure helps define clear requirements for a Banking Management System, ensuring that all aspects of functionality, performance, and security are covered.



## Banking System Use Case Diagram

