

## **Software Requirement Engineering (SE-301-A)**

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Topic:

**Project Proposal (Banking Application)**

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**BS Software Engineering (III)**

**GIFT University, Gujranwala**

Our project aims to revolutionize modern banking by introducing an innovative banking application. In response to the evolving needs of users, we're dedicated to crafting a secure, intuitive, and efficient platform. This proposal outlines our vision to redefine the banking experience through cutting-edge software engineering.

### **Purpose:**

Our project aims to develop a comprehensive banking application that offers efficient, secure, and user-friendly banking services to customers.

### **Project description:**

This project involves the development of a user-centric banking application equipped with essential features, providing a seamless and secure platform for banking transactions and services.

### **Key Features:**

- **Account Management:** Allows users to create, manage, and monitor their accounts easily.
- **Transaction Processing:** Enables seamless and secure fund transfers, bill payments, and transaction history tracking.
- **Security Measures:** Implements robust security protocols to safeguard user data and transactions.
- **User Interface:** Offers an intuitive and user-friendly interface for smooth navigation.

### **Benefits for Users:**

The software project aims to revolutionize the banking experience by offering:

- **Convenience:** Access banking services anytime, anywhere.
- **Security:** Ensuring the safety of users' financial information.
- **Efficiency:** Streamlining banking transactions and processes for enhanced user experience.

### **Functional Requirements**

#### **1. User Authentication and Authorization:**

- The system should authenticate users securely through methods like password authentication, biometrics, or two-factor authentication.
- Users should have different access levels based on roles (admin, customer) with appropriate permissions.

#### **2. Account Management:**

- Users should be able to create, modify, and delete their accounts.
- Account details should include account type, account number, balance, and transaction history.

**3. Funds Transfer & Payment:**

- The system must allow users to transfer funds between their own accounts or to other users.
- It should facilitate bill payments to registered billers or utilities.

**4. Transaction History:**

- The system should maintain a comprehensive transaction log detailing all financial activities.

**5. Notifications & Alerts:**

- Users should receive notifications for successful transactions, balance updates, or any security-related alerts.

**6. Security Measures:**

- Encryption of sensitive data during transmission and storage.
- Regular security audits and updates to ensure system robustness.

**7. Customer Support:**

- The system should feature a customer support module allowing users to contact the bank for assistance or queries.
- It should include options for live chat, email support, or a helpline.

**8. Multi-Currency Support:**

- For international transactions, the system should support multiple currencies and provide real-time exchange rates.
- It should allow users to view balances and conduct transactions in various currencies.