Banking Application

A platform for managing bank accounts, transferring funds, checking balances, and viewing transaction history.

Customer

Basic Level Requirements:

1. User Registration: Customers must register to create an account for banking services.

2. Account Overview: Customers should view an overview of their account balances and recent transactions.

3. Fund Transfer: Customers must initiate transfers between their accounts and to other users.

Medium Level Requirements:

1. Transaction Categorization: The system should automatically categorize transactions (e.g., groceries, utilities) for better tracking of expenses.

2. Budget Creation Tools: Customers should create and manage budgets, receiving alerts when they approach their spending limits.

3. Bill Payment Reminders: The system must send reminders for upcoming bill payments based on customer preferences.

Hard Level Requirements:

1. Fraud Detection Alerts: The system should implement a monitoring mechanism to detect unusual transaction patterns and alert customers of potential fraud.

2. Investment Recommendations: Customers must receive personalized investment suggestions based on their financial goals and risk tolerance, with a focus on transparency.

3. Integrated Financial Health Assessment: The system should provide customers with a comprehensive assessment of their financial health, integrating various metrics and suggestions for improvement.

Admin

Basic Level Requirements:

1. Admin Login: Admins must log in securely to manage the banking application.

2. **User Management:** Admins should manage customer accounts, including verification and support.

3. **View Overall Account Statistics:** Admins must view statistics on account openings, transaction volumes, and customer engagement.

Medium Level Requirements:

1. **Fraud Monitoring Tools:** Admins must monitor transactions for fraudulent activities, utilizing systems to flag suspicious behavior.

2. **Advanced Reporting Mechanism:** Admins should generate detailed reports on account activity, transaction trends, and customer behavior.

3. **Policy Enforcement:** Admins should enforce banking policies, managing disputes and ensuring compliance with regulatory requirements.

Hard Level Requirements:

1. **Multi-Layered Security Framework:** The system must incorporate advanced security measures to protect user data, including encryption and biometric authentication.

2. **Compliance Auditing Tools:** Admins should implement tools for auditing compliance with financial regulations, ensuring thorough documentation and reporting.

3. **Dynamic System Adjustments:** Admins must be able to adjust system parameters in response to real-time data and user feedback, optimizing banking services continually.

Other Requirements

1. **Notification System:** The system should notify users about transaction alerts, balance updates, and important account changes.

2. **Logging Mechanism:** All actions within the platform must be logged for future reference and troubleshooting.

3. **Error Handling:** The system should provide clear and actionable error messages to users for any input or connectivity issues without revealing sensitive information.