**Minimum Viable Product (MVP) Scope:**

**Phases of Development**

To ensure we deliver a functional mobile banking app within the given 12-hour timeframe, we will develop the application in three phases:

**Phase 1: Core Features**

* **User Authentication** (Login/Signup)
* **Dashboard** (Overview of account balance, recent transactions)
* **Transactions** (View transaction history, search and filter options)
* **Payments** (Transfer money between accounts, pay bills)

**Phase 2: Enhancements**

* **Real-time Data Updates** (Live transaction updates, sync with the bank database)
* **Push Notifications** (Alerts for transactions, security updates, promotional offers)

**Phase 3: Advanced Features**

* **AI-based Analytics** (Spending trends, personalized insights)
* **Budgeting Tools** (Set spending limits, track expenses by category)

**User Stories**

**Phase 1: Core Features**

1. **User Authentication**
   * As a user, I want to log in securely using my email and password so that I can access my account.
   * As a user, I want to reset my password if I forget it so that I can regain access to my account.
2. **Dashboard**
   * As a user, I want to see my account balance and recent transactions on the dashboard so that I can quickly check my financial status.
3. **Transactions**
   * As a user, I want to view my past transactions so that I can track my spending habits.
   * As a user, I want to filter transactions by date and category so that I can find specific transactions easily.
4. **Payments**
   * As a user, I want to transfer money to another account so that I can complete transactions easily.
   * As a user, I want to pay my bills online so that I don’t have to visit a payment center.

**Phase 2: Enhancements**

1. **Real-time Data Updates**
   * As a user, I want my transaction history to update automatically so that I don’t have to refresh manually.
2. **Push Notifications**
   * As a user, I want to receive alerts for transactions so that I can stay informed about my account activity.

**Phase 3: Advanced Features**

1. **AI-based Analytics**
   * As a user, I want to see insights into my spending habits so that I can make better financial decisions.
2. **Budgeting Tools**
   * As a user, I want to set monthly spending limits so that I can control my expenses.

**Acceptance Criteria**

**Phase 1: Core Features**

1. **User Authentication**
   * Given I enter my email and password correctly,
   * When I click "Login",
   * Then I should be redirected to the dashboard.
   * Given I forget my password,
   * When I request a password reset,
   * Then I should receive a reset link in my email.
2. **Dashboard**
   * Given I log in successfully,
   * When I access the dashboard,
   * Then I should see my account balance and recent transactions.
3. **Transactions**
   * Given I am on the transactions page,
   * When I select a date range and category filter,
   * Then I should see transactions matching my selection.
4. **Payments**
   * Given I enter recipient details and amount,
   * When I confirm the transfer,
   * Then the recipient should receive the money and I should see a confirmation.

**Phase 2: Enhancements**

1. **Real-time Data Updates**
   * Given I perform a transaction,
   * When the transaction is completed,
   * Then the dashboard should update instantly without requiring a manual refresh.
2. **Push Notifications**
   * Given I receive a deposit or withdrawal,
   * When the transaction is processed,
   * Then I should receive a notification on my phone.

**Phase 3: Advanced Features**

1. **AI-based Analytics**
   * Given I access the insights section,
   * When I check my spending trends,
   * Then I should see personalized financial insights.
2. **Budgeting Tools**
   * Given I set a monthly spending limit,
   * When my spending approaches the limit,
   * Then I should receive a warning notification.

**Time Allocation**

To stay on track, we will allocate time as follows:

| **Task** | **Time Allocation** |
| --- | --- |
| Requirements & Planning | 1.5 hours |
| UI/UX Wireframing | 1.5 hours |
| Frontend Development | 6 hours |
| Backend Integration | 6 hours |
| Payments & Security | 1.5 hours |
| Testing & Deployment | 1.5 hours |