**E-commerce Mobile App - Product Requirement Document**

**1. Introduction**

* **Purpose**: To provide users with a smooth shopping experience for browsing products, managing carts, and tracking orders.
* **Target Audience**: Primarily young adults (ages 18-35) who prefer online shopping via mobile devices.

**2. Product Overview**

* **Vision Statement**: To empower users with a seamless and convenient mobile shopping experience.
* **Objective**:
  + Enable easy product browsing and search functionality.
  + Provide a smooth cart management and checkout process.
  + Allow users to track order statuses in real time.

Success Metrics:

Goal Metric

**Simplify User experience:** Customer satisfaction score of 4.5/5.

**Download:** 5,000 downloads in the first month.

The total number the

App has been downloaded

**Active Users:** 2,000 monthly active users.

The number users who actively

use the app within a specific time

period (daily, weekly, monthly)

**Assumptions:**

* Users have smartphones with internet connectivity
* **Risk**: Potential delays due to unforeseen technical challenges

**3. User Personas**

* **Persona 1**: Frequent Shopper
  + **Age**: 20-35
  + **Tech Proficiency**: High
  + **Needs**: Quick browsing and checkout, real-time order updates.
  + **Goals**: Effortless shopping and reliable tracking information.

**Requirements:**

**Requirements User Stories Importance Jira Issue Note**

**Product Browsing *Description*:** Users can High MA-110

browse and search products

with filter and sort options.

***Acceptance* *Criteria*:** Users can

find and view product details

within 3 weeks' clicks.

**Cart Management *Description*:** Users can add, High MA-111

Remove, and update items in the

cart and proceed to checkout.

***Acceptance* *Criteria*:** Items update

instantly in the cart; seamless

transition to checkout.

**Order Tracking *Description*:** Users receive Medium MA-112

real-time updates on there,

order status from processing to delivery.

***Acceptance* *Criteria*:** Order status

updates every 15 minutes and shows

accurate location.

**5. Non-Functional Requirements**

* **Performance**:
  + App loads within 2 seconds.
  + Support for 10,000 simultaneous users.
* **Security**: Secure login and payment gateways with data encryption.
* **Usability**: Simple, intuitive interface with clear product and checkout navigation.
* **Compatibility**: Android and iOS support.

**6. Technical Specifications**

* **Technology Stack**:
  + **Frontend**: React Native for cross-platform compatibility.
  + **Backend**: Node.js with a PostgreSQL database.
  + **API Integration**: Integration with payment processors and logistics partners.

**7. Testing Requirements**

* **Functional Testing**:
  + **Product Browsing**: Test for search accuracy, filter functionality, and load times.
  + **Cart Management**: Validate add/remove functions, item quantity updates, and checkout process.
  + **Order Tracking**: Confirm update frequency and location accuracy.
* **Performance Testing**:
  + **Load Testing**: Verify loading time under 2 seconds.
  + **Scalability**: Test app performance with 10,000 simultaneous users.
* **Security Testing**:
  + **Payment Gateway**: Test for PCI compliance and data encryption.
  + **Data Security**: Simulate data breaches and validate encryption.
* **Usability Testing**:
  + Test navigation ease for browsing, adding to cart, and checking out.
  + Confirm accessibility on different screen sizes and OS versions.

**8. Approval**

* [Product Manager Signature]
* [Stakeholder Signature]

Here are five user stories based on the *Transfer Funds* feature in a banking app, written using the **INVEST** technique (Independent, Negotiable, Valuable, Estimable, Small, Testable) with **acceptance criteria** included:

**User Story 1: Initiate Fund Transfer**

**As a** user, **I want** to initiate a fund transfer **so that** I can send money to another account directly from my bank app.

**Acceptance Criteria:**

1. The transfer page loads within 3 seconds of clicking "Transfer."
2. The app displays fields to input the recipient’s account number, bank name, amount, and transfer reason.
3. The app provides an option to select between internal (same bank) and external (different bank) transfers.
4. Users are notified if mandatory fields (account number, amount) are left blank.

**User Story 2: Select Saved Beneficiaries**

**As a** user, **I want** to access my list of saved beneficiaries **so that** I can transfer funds quickly without re-entering recipient information.

**Acceptance Criteria:**

1. Users can view and select saved beneficiaries on the transfer screen.
2. Beneficiary details auto-fill after selection.
3. Users are able to search beneficiaries by name.
4. Users have an option to edit or remove a saved beneficiary before initiating a transfer.

**User Story 3: Confirm Transfer Details**

**As a** user, **I want** to review transfer details **so that** I can confirm accuracy before sending funds.

**Acceptance Criteria:**

1. Users are shown a summary page with recipient name, account number, bank, amount, and transfer fee (if applicable).
2. Users have an option to go back and edit transfer details.
3. A final "Confirm" button initiates the transfer.
4. An alert is shown for potential transfer fees before the transfer is confirmed.

**User Story 4: Receive Transfer Status Notification**

**As a** user, **I want** to receive a real-time notification for each transaction **so that** I can confirm if the transfer was successful.

**Acceptance Criteria:**

1. Users receive an in-app notification immediately after a transfer is processed.
2. Notifications indicate the success or failure of the transfer.
3. Failed transfers provide a reason for failure (e.g., insufficient balance).
4. Users have the option to retry or cancel in case of a failed transfer.

**User Story 5: View Transfer History**

**As a** user, **I want** to view my recent transfer history **so that** I can track past transactions easily.

**Acceptance Criteria:**

1. The transfer history screen displays the last 10 transactions by default.
2. Each transaction entry shows recipient details, date, amount, and status (completed or failed).
3. Users can filter transactions by date, amount, or recipient.
4. Users can click on a transaction to view detailed information, including fees or exchange rates if applicable.

Each of these stories adheres to the INVEST principles, being independent, valuable to users, small enough for rapid development, and testable with the provided acceptance criteria.