



# software requirements (functional & non-functional)

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## **Software Requirements – Arimma Frontend (B2B2C Platform)**

Arimma – Frontend Development for Digital Trade and Climate Neobank

### **Project Scope:**

The frontend application is designed to provide a responsive, user-friendly interface that allows B2B2C actors (farmers, traders, cooperatives, logistics, financial institutions) to interact with the Arimma ecosystem through trade, procurement, banking, insurance, and credit features.

### **Functional Requirements**

#### **1. User Management**

Registration & login (multi-role): Farmer, Buyer, Trader, Financier, Logistics

Profile setup: Name, contact info, location, business type, role-based fields

Role-based dashboards

Password reset & email verification flow

#### **2. Product & Service Marketplace**

Browse & search products (inputs, produce, insurance, logistics, finance)

Filters: Category, location, price, availability

Product detail view

Add/list product form (title, image, description, category, price, quantity)

Buyer request interface (reverse listing)

#### **3. Wallet Interface (UI Only in MVP)**

View wallet balance (fiat & stablecoins)

Transaction history mock

Buttons: “Top Up”, “Send”, “Withdraw” (non-functional or placeholder)

#### **4. Procurement & Order Management**

View cart & checkout process (for input or produce buyers)

Track orders (static status for MVP)

Confirmation and delivery summary screens

#### **5. Insurance & Credit Module (UI-Only MVP)**

View available insurance covers (crop, livestock, logistics, equipment)

Apply for climate insurance (form-based UI only)

Credit score preview mock screen

Apply for finance (static form)

#### **6. Logistics Integration (UI Only)**

Browse available logistics partners (dropdown map view)

Track order delivery (mock timeline)

Book logistics provider (static UI)

#### **7. Farmer & Trader Dashboards**

Summary cards: # of products, orders, active listings, wallet balance

Shortcuts: “Add Product”, “Buy Inputs”, “Apply for Loan”, “Get Insurance”

Analytics preview (for full platform): order volumes, revenue, savings, climate risk tips

#### **8. Customer Support & Resources**

FAQ section

Contact form

Live chatbot integration placeholder

WhatsApp chat button

## **Non-Functional Requirements**

### Requirement Description

- Responsiveness Fully responsive (mobile-first) for phones and tablets
- Performance Lightweight, load-time optimized (<3 seconds on 4G)
- Accessibility WCAG 2.1 compliant (contrast, font size, semantic HTML)
- Scalability Modular components and layout ready for expansion
- Localization Multi-language support (English, Swahili, Portuguese, French)
- Security Secure front-end routing, basic form validation.

## **Tech Stack Recommendation**

### Layer Technology

- Framework React.js + Next.js
- Styling Tailwind CSS or SCSS
- State Mgmt Redux Toolkit or React Context
- Forms React Hook Form + Yup
- Maps (optional) Leaflet.js or Mapbox for geolocation
- Auth (UI) Firebase Auth integration (frontend only)
- UI Kit shadcn/ui or Chakra UI (optional)

## **Deliverables**

- Fully functional front-end MVP
- GitHub-hosted source code
- Static pages with placeholder APIs
- Responsive layout & mobile testing

