

# Truck Storm Mobile App – Frontend Requirements Document

## 1. Introduction

The **Truck Storm App** is a logistics platform connecting **clients** (shippers) with **truck owners/drivers** for efficient load transportation. This document outlines the **frontend requirements** for the mobile application (Android & iOS).

## 2. User Interfaces (UI) & Screens

### A. Authentication & Onboarding

#### 1. Login Screen

- Email/Phone + Password
- "Forgot Password?" option
- Social login (Google, Facebook)

#### 2. Registration Screens

- Client Signup (Name, Email, Phone, Password)
- Driver/Truck Owner Signup (Additional: License, Truck Details)
- OTP Verification

#### 3. Role Selection (Client or Driver)

### B. Client-Side Screens

#### 1. Post a Load

- **Fields:**
  - Pickup Location (Google Maps Autocomplete)
  - Delivery Location (Google Maps Autocomplete)
  - Estimated Weight (Numeric input + Unit selection)
  - Load Type Dropdown (e.g., Fragile, Perishable, Heavy Machinery)
  - Photo Upload (Camera/Gallery)
  - Submit Button

#### 2. View Bids Dashboard

- **Bid Card Components:**
  - Driver Name & Rating
  - Truck Type & Capacity

- Bid Price
- Estimated Delivery Time
- Accept/Reject Buttons

### 3. Active Load Tracking

- **Map View** (Google Maps)
  - Real-time driver location
  - Route from Pickup → Delivery
  - ETA Display
- **Chat Button** (Floating action)

### 4. Payment Screen

- **Payment Methods:**
  - Card, Mobile Money, Bank Transfer
- **Escrow System Confirmation**
- **Transaction History**

### 5. Dispute Resolution

- **Form:**
  - Reason for Dispute (Dropdown)
  - Upload Evidence (Images, Chat Screenshots)
  - Submit Button

## C. Driver-Side Screens

### 1. Available Loads List

- **Load Card Components:**
  - Load Image Thumbnail
  - Pickup & Delivery Locations
  - Weight & Load Type
  - "Place Bid" Button

### 2. Bid Submission Screen

- **Fields:**
  - Bid Price (Input)
  - Estimated Delivery Time (Date/Time Picker)
  - Notes (Optional)
  - Submit Button

### 3. Active Job Tracking

- **Map Navigation** (Google Maps)
  - Optimized Route
  - "Picked Up" / "Delivered" Toggle Buttons
- **Chat with Client**

### 4. Earnings & Payments

- **Dashboard:**
  - Total Earnings
  - Pending/Completed Payments
  - Withdrawal Options

## 3. UI/UX Requirements

### A. Design System

- **Color Scheme:**
  - Primary: Blue (Trust)
  - Secondary: Orange (Action)
- **Font:**
  - Headings: **Roboto Bold**
  - Body: **Roboto Regular**
- **Icons:** Material Design Icons

### B. Navigation Flow

- **Bottom Navigation Bar (Main Tabs):**
  - Home
  - My Loads/Jobs
  - Messages
  - Payments
  - Profile

### C. Responsiveness & Adaptability

- Works on **Android (6.0+)** & **iOS (12+)**
- Supports **Dark/Light Mode**
- Optimized for **Low-End Devices**

## 4. Functional Requirements

### A. Real-Time Features

Live Driver Tracking (WebSockets/Google Maps API)

Instant Chat (Firebase/Socket.io)

Push Notifications (Bid Alerts, Tracking Updates)

### B. Security & Compliance

Encrypted Chat

Secure Payment Gateway (Flutterwave/Stripe)

GDPR/Data Privacy Compliance

### C. Offline Capabilities

Cache Recent Loads/Bids

Queue Actions When Offline (Sync on Reconnect)

## 5. Non-Functional Requirements

**Performance:** <2s Load Time

**Scalability:** Supports 10,000+ Concurrent Users

**Accessibility:** VoiceOver/ TalkBack Support

## 6. Third-Party Integrations

- **Google Maps API** (Location & Navigation)
- **Firebase Auth** (Authentication)
- **Payment Gateway** (Stripe, Flutterwave)
- **USSD Service** (Africa's Talking)

## 7. Mockups & Prototype

- **Figma/Adobe XD Prototype** (Link if available)

### Next Steps

Finalize UI/UX Design

Develop MVP (Flutter/React Native)

Test & Deploy