

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