Traveler-Based Parcel Delivery Application

Concept & System Design Overview

1. Concept Overview

This application allows users to send parcels between cities using travelers instead of traditional courier services. The system supports liquids and flexible delivery at lower costs. Users can act as both senders and travelers using the same account.

2. User Roles

Sender: Creates parcel requests with item details.
Traveler: Posts travel routes and accepts delivery requests.
Receiver: Receives the parcel using OTP verification.

3. Incentives for Travelers

Travelers earn delivery fees for each parcel. They can also receive ratings, reputation scores, and rewards to encourage participation.

4. Security System

All users must complete identity verification including CNIC, selfie, phone, and email verification. Each parcel requires photos, category selection, and value declaration. Restricted items such as drugs, weapons, and illegal liquids are strictly prohibited.

5. OTP Verification System

Pickup OTP: Sent to the sender and verified when the traveler collects the parcel.
Delivery OTP: Sent to the receiver and verified at delivery time.
This prevents fraud and ensures secure handovers.

6. Parcel Tracking

Live GPS tracking allows both the sender and receiver to monitor the traveler's route and delivery status.

7. Legal & Compliance

The platform requires business registration, terms and conditions, and liability disclaimers. Users are responsible for declaring legal items only.

8. Transport Rules for Liquids

Liquids are only allowed with travelers using personal vehicles. Public transport travelers (bus, train, airplane) cannot carry liquids due to regulations.

9. Smart Matching System

Travelers select their vehicle type. Senders select parcel type. The system automatically matches compatible travelers and parcels.

10. Delivery Flow Summary

1. Traveler posts route
2. Sender creates parcel request
3. Traveler accepts request
4. Pickup OTP verification
5. Live tracking
6. Delivery OTP verification
7. Payment release and rating

11. Business Advantages

The app offers cheaper delivery, liquid support, and flexible logistics. It provides a unique alternative to traditional courier services.