

About Project :

This project focuses on developing a comprehensive courier and bus ticketing platform for a local delivery company. The system includes a user mobile app, delivery personnel app, shipment vendor dashboard, bus shipment vendor dashboard, and an admin panel. The platform seamlessly integrates features like real-time parcel tracking, route optimization, multi-vendor management, and bus ticket sales, offering a streamlined experience for customers, vendors, and drivers. Designed for scalability, security, and user-friendly access, the platform supports efficient operations and easy integration with third-party services.

The Problems :

- **Inefficient Delivery Management:** Vendors and drivers face challenges in managing and tracking shipments, leading to delays.
- **Lack of Real-Time Tracking:** Customers and vendors lack visibility into parcel status.
- **Fragmented User Experience:** Multiple platforms create confusion for users, drivers, and vendors.
- **Limited Monetization:** No integrated services like bus ticketing, missing growth opportunities.
- **Scalability Issues:** The platform struggles to scale with growing demand.
- **Identity verification** - The admin not able to verify the identity of the users

The Goal :

- **Reduce Paperwork:** Streamline processes by providing an online solution for shipping and ticketing.
- **Simplify Parcel Delivery:** Enable easy parcel sending with real-time tracking and optimized routes.
- **Bus Ticketing:** Offer a convenient in-app and dashboard solution for booking bus tickets.
- **Efficient Shipment Management:** Allow vendors to manage shipments, deliveries, and finances in one platform.
- **Support Growth:** Provide a scalable, user-friendly platform for expanding businesses and services.

Proposed Solution :

1. **Vendor Dashboard:** A unified platform for vendors to manage shipments, track parcels, and access analytics.

2. **Real-Time Tracking:** GPS tracking, optimized routes, and automated notifications for seamless parcel management.
3. **Bus Ticketing Integration:** In-app bus search and Dashboard bus ticket sales for added value to local transportation vendors.
4. **Secure Integration:** Robust security and API support for connecting with third-party systems and payment gateways.

Key Features of Platform :

Here are the key features of the app:

- **Multi-Vendor Dashboard:** Dedicated interfaces for vendors to manage shipments, track parcels, and view analytics.
- **Real-Time Parcel Tracking:** Unique tracking numbers for parcels with traceability via mobile and web.
- **Automated Notifications:** SMS and customizable notifications for parcel updates, with multi-lingual support.
- **GPS Tracking & Route Optimization:** Real-time vehicle tracking and optimized delivery routes based on traffic data.
- **Operational Management:** Inventory and dispatch management tools for efficient parcel handling.
- **Identity verification** - The user can upload their requested Identity cards for the profile verification so that the user can use the application.
- **Bus Ticketing Integration:** In-app and dashboard bus ticket sales for users, adding value for local transportation vendors.
- **Scalable & Flexible Pricing:** Tiered pricing models to accommodate businesses of various sizes.
- **Secure Integration:** Robust security and API support for connecting with third-party systems and payment gateways.
- **Report & Analytics:** Real-time parcel volume tracking, financial reporting, and performance analytics for better decision-making.

User (Customer) Flow :

- **Sign Up/Login**
 - User will register/sign using phone number or email in by providing their documents and admin will approve
- **Select pick up and delivery location**
 - User will select pick up and delivery location
- **Select vehicle type and enter receiver details**
 - user will select Select vehicle type and enter receiver details
- **Bidding system** -
 - Users can place bids based on their preferences
- **Select parcel detail**

- user will select the parcel details for delivery
- **Live Tracking**
 - user can track the delivery person
- **Live chat and call**
 - use can live chat and call with the delivery person
- **Locate vendors**
 - user can locate the shipment vendor nearby their area
- **Locate bus vendors**
 - user can locate the bus vendor nearby their area

User (Driver) Flow :

- **Sign Up/Login**
 - Driver will register/sign using phone number or email in by providing their documents and admin will approve
- **Select the delivery requests**
 - Driver can select the upcoming delivery requests or counter the user
- **Bidding system -**
 - Drivers can place bids based on their preferences
- **Live route**
 - Driver can view the live route in the map
- **Live chat and call**
 - driver can live chat and call with the user
- **Parcel delivery**
 - Driver will deliver the parcel to the location

Dashboard (Shipment vendor) Flow :

- **Sign Up/Login**
 - Vendor will register/sign using phone number or email in by providing their documents and admin will approve
- **Create shipment**
 - Vendor can create shipment and update the details of the shipment
- **User management**
 - Vendors can manage their users
- **Shipment Tracking**
 - Vendor can modify the status of the shipment
- **Reporting and analytics**
 - Real-time parcel volume tracking, financial reporting, and performance analytics for better decision-making.

Dashboard (Bus - Shipment vendor) Flow :

- **Sign Up/Login**
 - Bus - Vendor will register/sign using phone number or email in by providing their documents and admin will approve
- **Create shipment**
 - Bus - Vendor can create shipment and update the details of the shipment
- **Bus management**
 - Bus - vendor can manage their buses
- **Bus Ticket Booking**
 - Bus - vendor can issue the the bus ticket
- **Reporting and analytics**
 - Real-time parcel volume tracking, financial reporting, and performance analytics for better decision-making.

Admin Flow :

- **Login**

Admin logs into the system.
- **Dashboard**

Displays graphs, pie charts, and listings.
- **Users Management**

The admin has the ability to add, update, remove, and verify users on the platform.
- **Shipment and courier management** - Manage the shipments and courier of the platform
- **Bus ticket management** - Manage the Bus tickets issue on the platform
- **Subscription and coupons** - Manage the subscription and coupons
- **Reporting and analytics** - Real-time parcel volume tracking, financial reporting, and performance analytics for better decision-making.

Additional Features we offer:

Here's a more concise version of the additional requirements:

1. **Multi-language Support**

The platform supports multiple languages, ensuring accessibility for users from diverse backgrounds - English, French
2. **Push Notifications:** Real-time alerts for parcel updates and important announcements.
3. **Admin Panel:** Allows managing users, content management
4. **Dynamic Pricing for Shipments:** Pricing based on distance, weight, and urgency.

5. **Advanced Search Filters:** Filters for easier service selection based on user preferences.
6. **Transaction History:** Users can view detailed records of all the payments
7. **Customizable Delivery Options:** Choose between express, standard, or same-day delivery
8. **Automated Invoice Generation:** Automatic generation and sending of invoices.
9. **Mobile & Web:** Fully responsive on Android, iOS, and desktop browsers.
10. **Help & Support:** Users can reach out to the admin for assistance and share their issues.
11. **Bidding system** - Users and drivers can place bids based on their preferences

App and admin panel Images :

Link of Figma :

<https://www.figma.com/design/e6Wz87S81zRAebinBt8Cak/JUDE?node-id=33-2&p=f&t=F8zdiNMELyP88qvQ-0>

TechStack :

User and driver application application - Native (Kotlin and Swift)

Admin panel - MERN technology

Database - MongoDB

Server - NodeJs

Domain - from client like Afriwaylogistics.com

Third party - Google (firebase, geolocation, places api)

Mobile app development -

kotlin - <https://www.pngwing.com/en/search?q=kotlin>

swift - <https://www.pngwing.com/en/search?q=swift+programming+language>

Web design development -

html - <https://www.pngwing.com/en/free-png-vonbu>

css - https://upload.wikimedia.org/wikipedia/commons/6/62/CSS3_logo.svg

javascript -

https://www.flaticon.com/free-icon/js_5968292?term=javascript+logo&page=1&position=2&origin=tag&related_id=5968292

Backend development

Mongodb - <https://www.pngwing.com/en/search?q=mongodb>
express js - <https://www.pngwing.com/en/free-png-sreax>
react js - <https://www.pngwing.com/en/search?q=react>
node js - <https://www.pngwing.com/en/free-png-amxds>
Third party - firebase - <https://www.pngwing.com/en/search?q=firebase>

8. 3rd Party Platform : Third party - firebase

9. Time Duration : - 5 months