



LogiTrack

Subject: Android Development

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Project Objectives

Core Mission

To digitize and streamline the logistics supply chain by connecting Vehicle Owners and Logistic Owners on a single, unified platform.

Key Goals

- Implement secure, role-based access control.
- Provide real-time transparency in load booking.
- Simplify navigation and route planning for drivers.

Authentication & Roles

Secure Entry

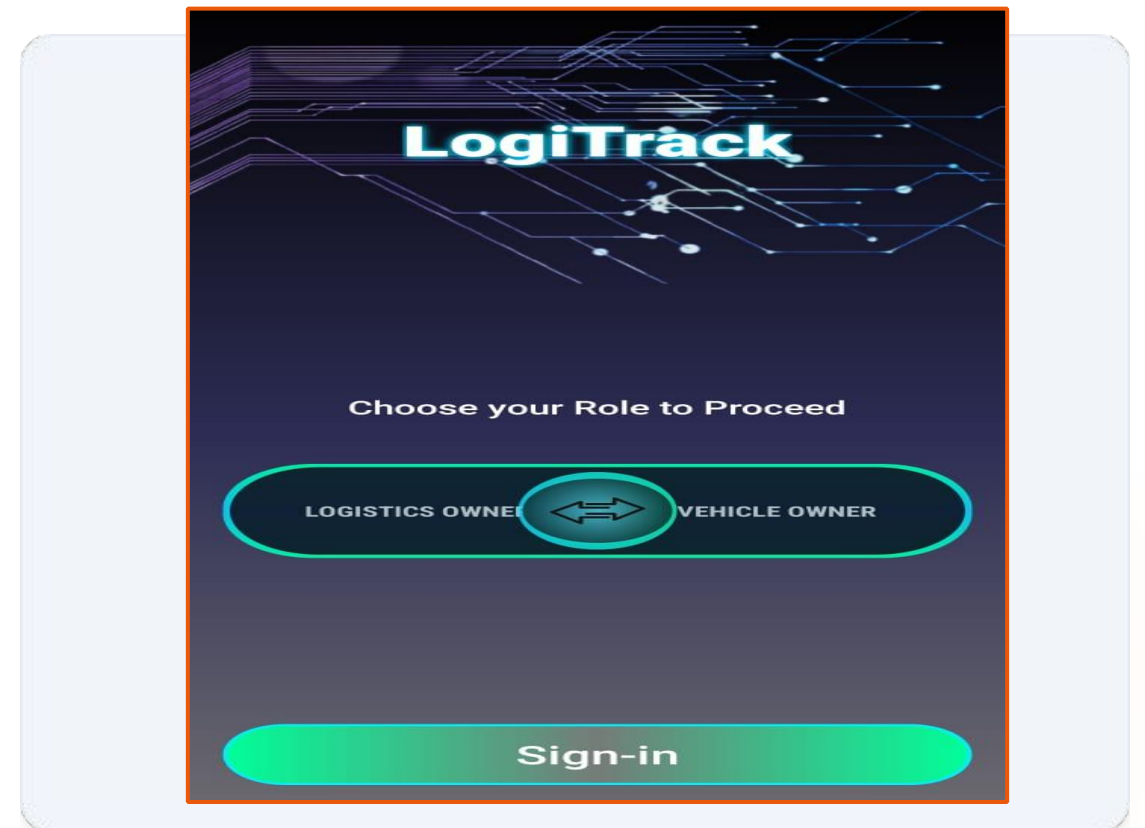
The app uses **Firestore Authentication** with Google Sign-In for a seamless onboarding experience.



Role Selection

An interactive, gesture-based UI allows users to choose their role (scrollable left/right):

- **Vehicle Owner** vs. **Logistic Owner**




Constraint: A single email ID is strictly locked to one specific role to maintain system integrity.



 **LogiTrack** 

Total Price: ₹0.0

Choose vehicle type

Logistic Owner: Load Posting

Logistic Owners post new requirements by filling out a comprehensive form (Load name/pattern is included in Logistic Type):

Logistic Type / Load Name

Tons (Total Load Amount)

Price per Ton (Price per Load)

Total Price (Calculated)

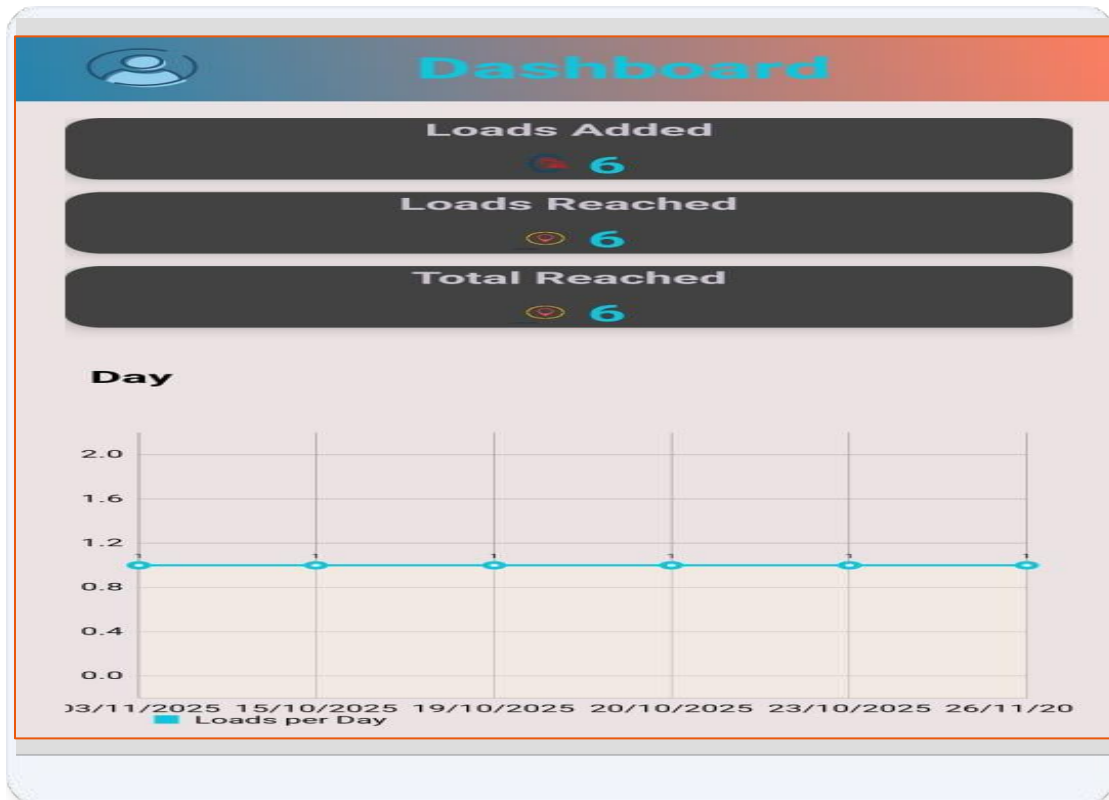
Source City/State

Dest. City/State

Contact Number

Select Date (Requirement)

Logistic Owner: Analytics Dashboard



Real-Time Visualization

The **Dashboard Section** (separate from the cart/load list) fetches data directly from **Firebase** to visualize performance.

- **Line Charts:** Display the **number of loads added each day**.
- **Load Cards:** Loads are displayed in a clean card view after verification (as seen on the left).
- **Data Source:** Ensures real-time monitoring of operational activity.

Flexible Search Options

Drivers can search using two methods:


- ****Double Search:**** Source State & Destination State (**vehicledoublesearch.jpeg**).
- ****Single Search:**** Any one City/State (Source OR Destination) (**vehiclesinglesearch.jpeg**).
- ****Add to Cart:**** Loads can be added to the "Load" section (cart) for quick access.



Load Section (Cart View)


The cart (Load section) displays all accepted loads and includes an icon for direct contact:







LOGISTICS


LogiTrack




 Find Load

 Search

Choose vehicle type





Search




LOGISTICS

LogiTrack





 Find Load


 Search


Choose vehicle type


Search

 Create New Contact


 Add to Existing Contact

 Send SMS

 Meet Video Call



72550 12028



1
Q.O

4
GHI

7
PQRS

*

2
ABC

5
JKL

8
TUV


0
+


3
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Smart Navigation

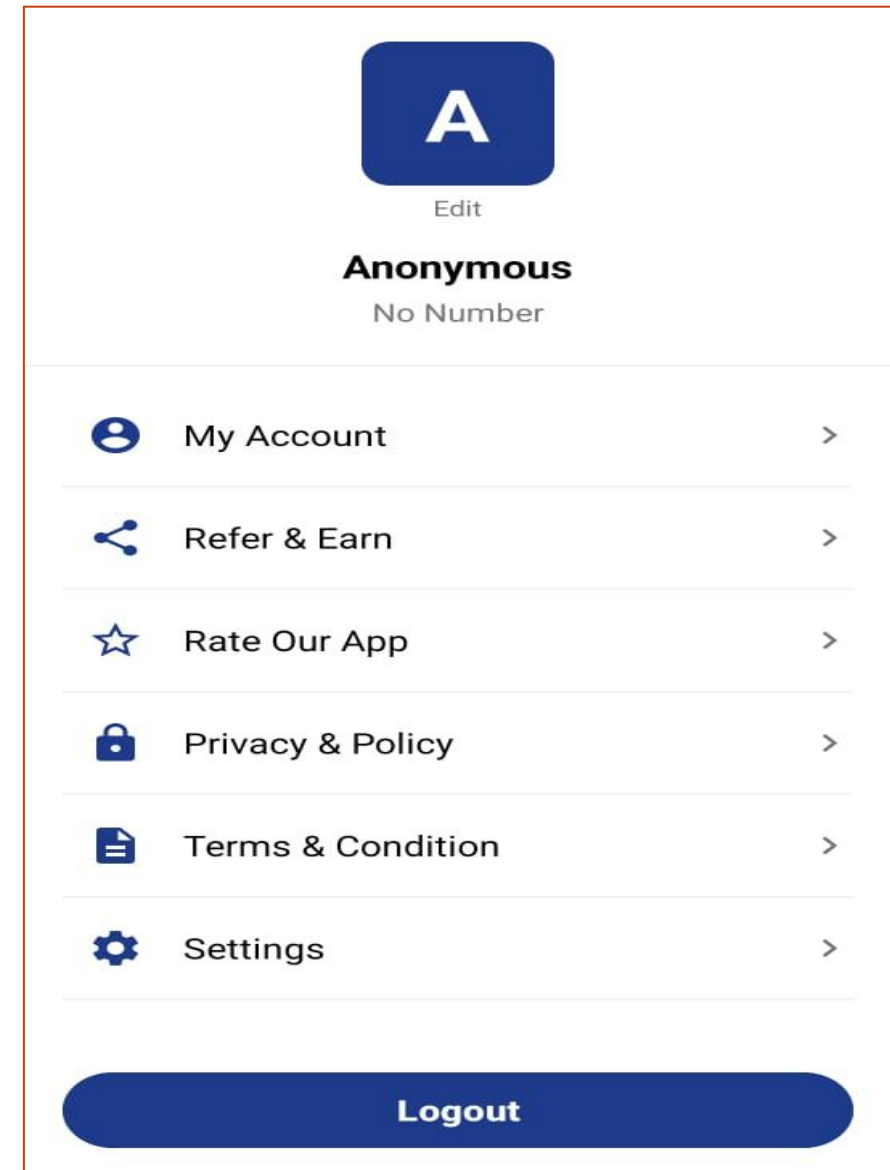
Shared Profile & Settings

Consistent Account Management

The profile section is mostly consistent for both roles, offering essential tools:

- **My Account:** View and update personal details.
- **Rating Section:** Separate area for user ratings and feedback.
- **Privacy & Policy / Terms & Condition:** Regulatory pages.
- **Settings:** Customize app behavior and notifications.

Exception: Logistic Owners have an additional **Dashboard** page accessible here.



Future Work

We plan to introduce In-App Payments, Live GPS Truck Tracking, and Multi-language support to make the app accessible to a wider audience.

Conclusion

LogiTrack successfully bridges the gap in the logistics industry, providing a robust, secure, and user-friendly platform for managing loads and vehicles effectively.

References

Image Sources

App UI Mockups and Screenshots based on project development files.

Project Repository

Access the complete source code and documentation on GitHub:

Source: <https://github.com/MdAhmadRaja/Logistics226>



MdAhmadRaja/Logistics22