



FREIGHTBOOK PRESENTATION



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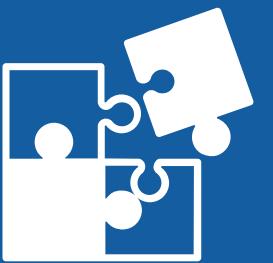
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01. INTRODUCTION



OBJECTIVE OF THE PROJECT

The platform solves the problem of managing freight transport services, allowing customers to easily book cargo transport and service providers (drivers) to manage and post their services.



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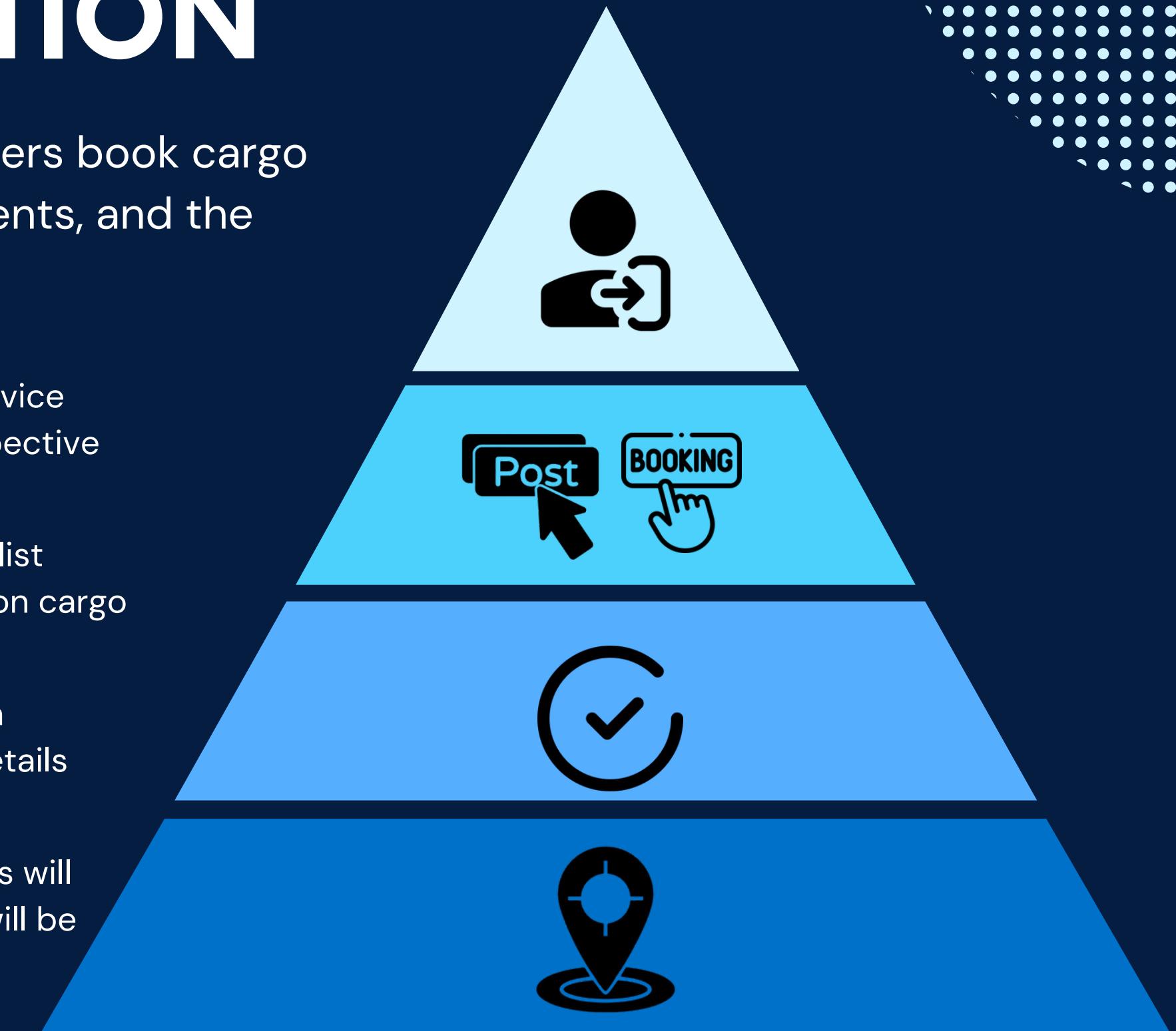
Provides a transparent and streamlined process for both customers and service providers, enhancing efficiency in cargo transport and shortening the amount of time to get this service manually



02. DEMONSTRATION

A freight transport platform where customers book cargo services, service providers manage shipments, and the system calculates costs dynamically.

- 01** User Registration & Login – Customers and service providers sign up and log in to access their respective dashboards.
- 02** Service Posting & Booking – Service providers list transport services, and customers book based on cargo type, weight, and location.
- 03** Cost Calculation & Confirmation – The system calculates costs dynamically based on cargo details and distance, then confirms booking.
- 04** Payment & Tracking (Future Plan) – Customers will pay via Chapa/Telebirr, and real-time tracking will be added for shipment monitoring.



03. TECHNOLOGIES USED

The ORM that manages database interactions, making it easier to work with tables and queries.

Flask

The web framework that powers the backend, handling routes, requests, and responses.

SQLAlchemy

Provides the structure and styling for the web pages, ensuring a responsive and user-friendly UI.

JavaScript

Handles frontend interactivity, including map integration, form validation, and cost calculation.

HTML/CSS

OpenStreetMap & Nominatim API

Used for geolocation, allowing users to select pickup/delivery points and calculate distances dynamically.

CHALLENGES WE FACED

During the development process, we encountered several obstacles that required creative problem-solving, resource management, and quick adaptation to new tools. Here's a closer look at the challenges we faced:

01 Time Constraints & Academic Load

Managing this project alongside assignments and exams was tough, forcing us to prioritize efficiently.

02 Realistic Distance & Pricing

Calculating accurate transport costs was challenging since real-world factors like traffic and fuel prices aren't easily modeled.

03 Learning While Building

Since we were new to SQLAlchemy and Flask, we had to learn them on the go while developing the project.

04 Integrating Payment System

Setting up secure and reliable payment processing was complex and required careful implementation.



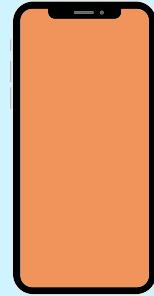
NEXT PROJECT

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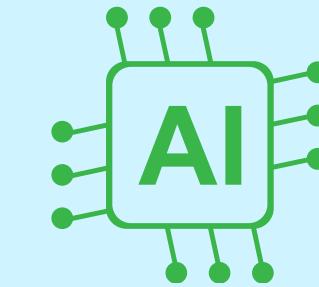
Telebirr Payment Integration

Expanding the payment system to include Telebirr will provide more flexibility for customers, particularly in Ethiopia.



Mobile Application

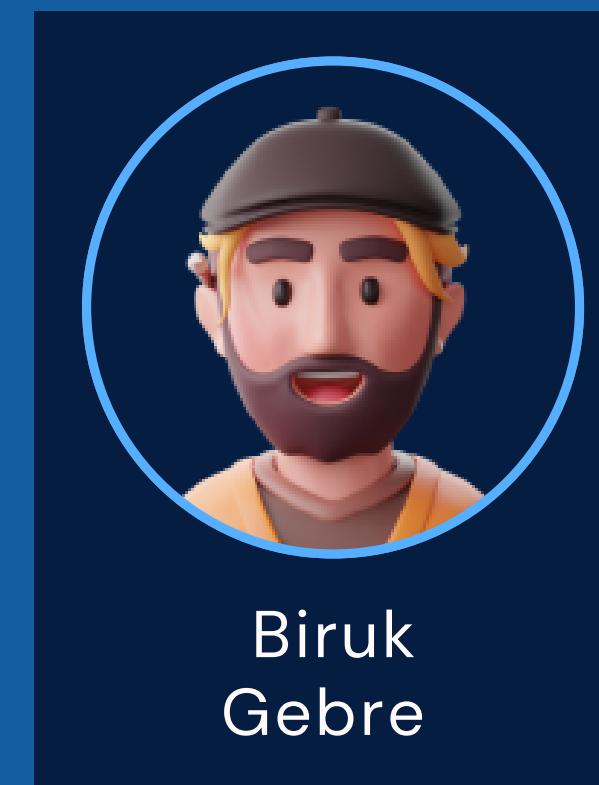
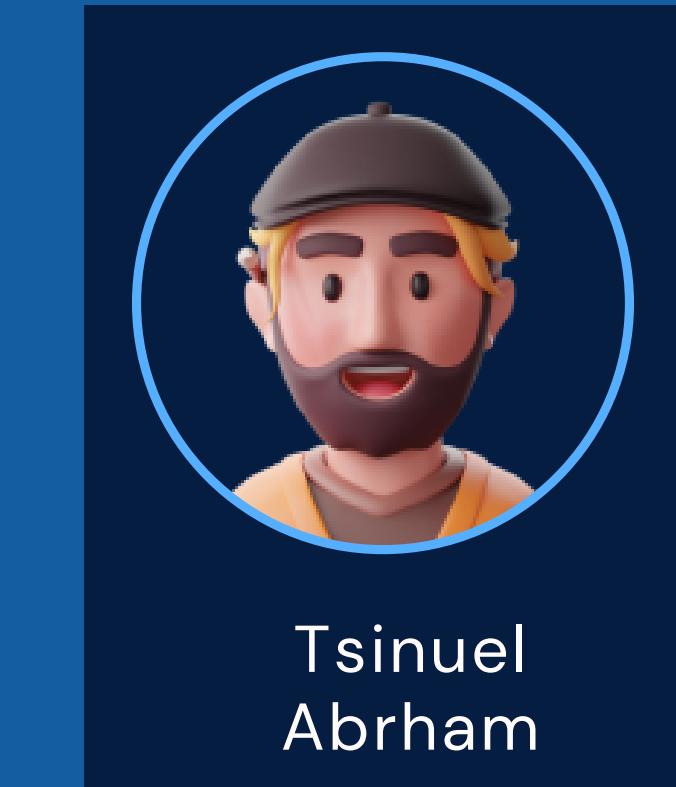
Developing a mobile app will allow users to access services on-the-go, providing better convenience and broader reach for both customers and service providers.



AI-Powered Recommendations

Leveraging AI to provide personalized service suggestions based on user preferences and past behaviors, enhancing the user experience and boosting engagement.

OUR TEAM





THANK YOU
FOR YOUR TIME

