Ride to Inclusivity: Designing a comprehensive B2C Online Store for Imported Goods

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Project Scope

India is known of its agricultural exports never imports , while we have a ton of varieties indigenous to India there are quite a few agricultural goods that can't be grown in India due to inadequate agricultural infrastructure or unsuitable weather conditions and thus this results in scarcity of this good and insanely high profit markup margins making it a "niche" product. My project aims to make these products accessible to everyone. Additionally all of these vendors will go through alot of quality checks to ensure that the products delivered to the consumers are of the highest quality and safe to consume.

Data I plan to store is:

1. The vendor information :
    -Vendor ID and Certifications all of which are approved by the Gov of India.
    -Contact Name, email ID , Contact Numbers and all other basic information.
    -Payment Information of the Vendor's account.
    - A record of all the quality checks that were done of the product along with its reports.

2. Buyer's Information:
    - Personal Information like Name, Phone Number and Addresses
    - Preferences and Most Frequently bought products.
    - Reviews Shared

3. Drivers Information:
    - The basic information of drivers
    - Daily Progress of each driver (No of trips completed, Reviews)
    - Payment details of each trip and tips calculated total
    - Distance traveled and time taken for each order trip.

Functional Requirements

The Frontend of the store will be called "GoMart" it will consist of a few interactive web pages which handle everything from displaying,ordering to handling of coupons and delivery of the product and complaints if any regarding it. (A subset of Amazon Dupe)

There's also a need for the web-based admin dashboard, which will serve the role of a centralized backend office, to monitor the entire system and perform administrative actions.

For the passenger client, the user flow and functionalities are as follows:
• **User registration**: Users will first need to register on the platform by providing their personal information and creating a unique account.
• **Login**: Once the registration is complete, the user will be able to log in to their account using their email and password.
• **Ordering of Items:** After registering the users will be able to order to any address in the coverable area by providing their delivery address and will be able to view products in order of fastest delivery.
• **Price Calculation:** The calculation will be done based on the number of orders the person has placed, The first order will be given 10% discount and subsequent orders 5% till the customer reaches its 4th order after which no further discounts will be provided.
•**Order Confirmation**: The order will be confirmed after payment is completed (If the choice of payment is Online) , COD will be allowed but with further price hike as a convenience fee.
•**Order Tracking**: Once the order has been placed and confirmed the tracking number will be provided to the customer and shared with them on various platforms for ease of tracking.
•**Rating and Review**: Once the order has been delivered the customer can rate and review the particular product in the website and get incentives in return.
•**View Past Orders**: The customer can view its previous orders and seek for help with the order if needed.
•**Cancellation of order:** The customer can cancel the order up till a minute after ordering it.

For the rider client, the user flow and functionalities are as follows:

• **Rider Registration:** Rider will first need to register on the platform by providing their personal information, vehicle information and creating a unique account.
• **Login:**Once the registration is complete, the driver will be able to log in to their account using their email and password**.**
• **Accept Order:**After logging in, the rider will be able to view the available orders and accept them.
• **Tracking the booking:** The driver will be able to track the booking details, including pickup and destination.
• **Rating and Review:** After the order is completed, the rider will be able to view the rating and review given by the customer.
• **Viewing past bookings:** The rider will be able to view their past orders on their profile page.

Admin Panel: An administrator will be able to access the admin panel to manage the system, including managing user accounts, monitoring and managing bookings, managing rider accounts, viewing statistics and reports, and making changes to the system's settings.

Technical Requirements

• For the front-end, we plan on using HTML, CSS, and JavaScript languages with the React library.

• For the back-end, we plan on using the FastAPI web framework for developing RESTful APIs in Python. • We will use the MySQL/MariaDB DBMS to store and manage the data.

• For Map Integration : Google Maps API will be used.