

SYSTEM PRESENTATION

SheWear
Find comfort that suits you.

OUR TEAM

JAVIER
VINCENT ANGELO

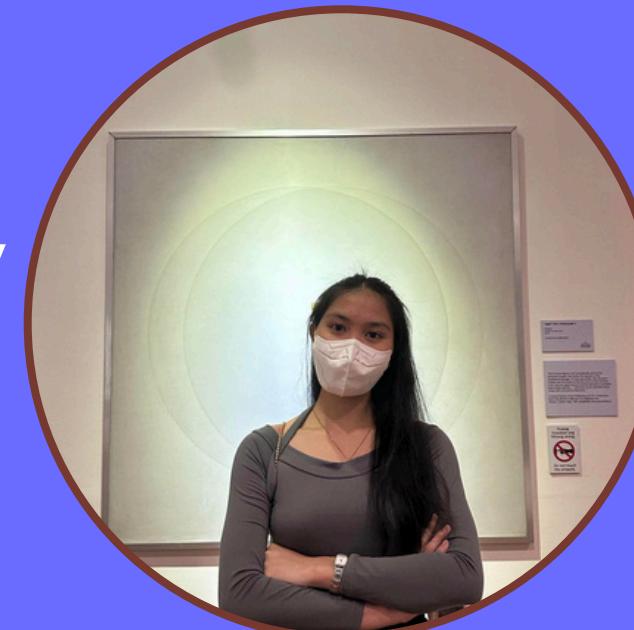


LOPEZ
JUSTINE JHAY



HERRADURA
HANNA FRANCESCA

MAGTIBAY
BERNADETH

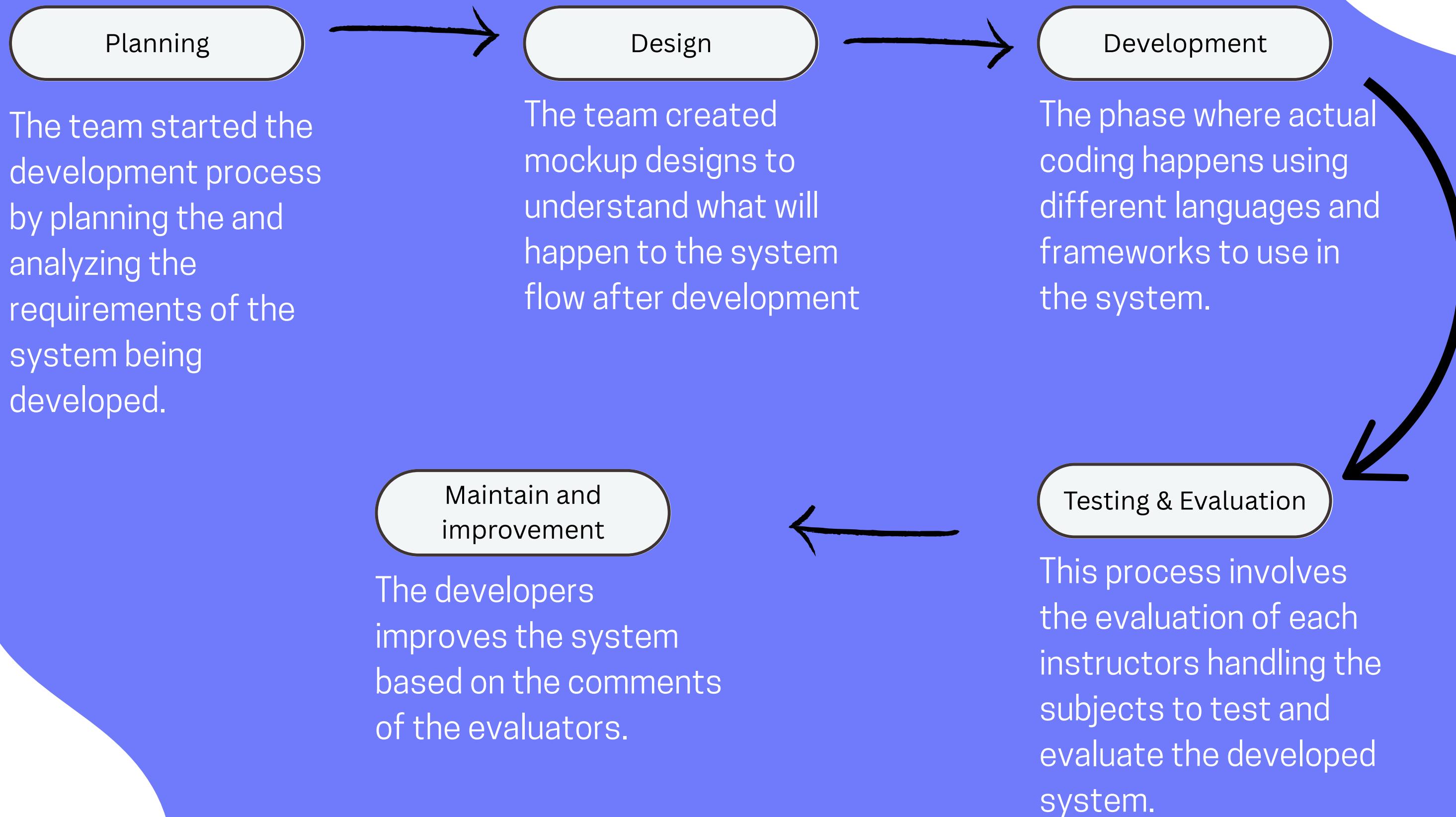


ABOUT SHEWEAR



SheWear is an e-commerce platform dedicated to offering a curated selection of women's apparel that blends style, comfort, and versatility. With an easy-to-navigate website, SheWear aims to provide a seamless shopping experience to meet the diverse needs of today's modern women.

Development Process



SYSTEM FEATURES

User-Facing Features (Customer Side)

A. User Authentication & Profiles

- Registration & login (Email)
- Password recovery
- Profile management (Personal details, address book)
- Order history & tracking

B. Product Browsing & Search

- Product catalog with categories
- Product details (Images, Videos, Descriptions, Reviews)

C. Shopping Cart & Checkout

- Add/remove items from cart
- Cart summary (Price, Discounts)

D. Order Management

- Order tracking (Status updates – Processing, Shipped, Delivered)

E. Communication Tools

- Buyer-Seller chat (In-app messaging for queries)
- Automated email/SMS (Order Delivery)

SYSTEM FEATURES

Seller Panel Features (For Vendors/Store Owners)

A. Product Management

- Add/Edit/Delete products
- Inventory tracking
- Variants management (Size, color)

B. Order Management

- Order processing
- Cancel/refund requests (Approval workflow)

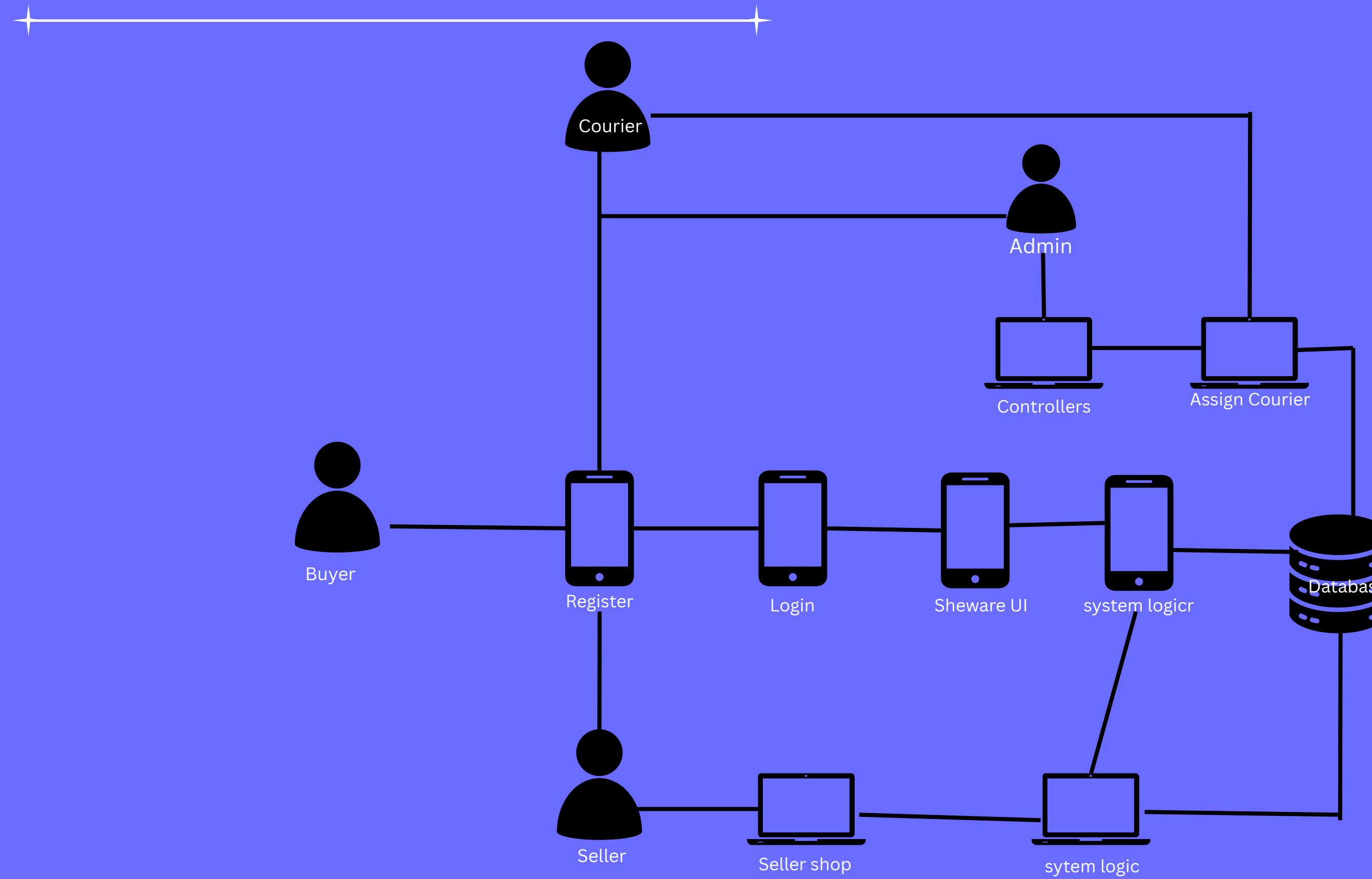
C. Promotions & Discounts

- Create custom coupons (Percentage/Flat discounts)

D. Communication Tools

- Buyer-Seller chat (In-app messaging for queries)

SYSTEM ARCHITECTURE

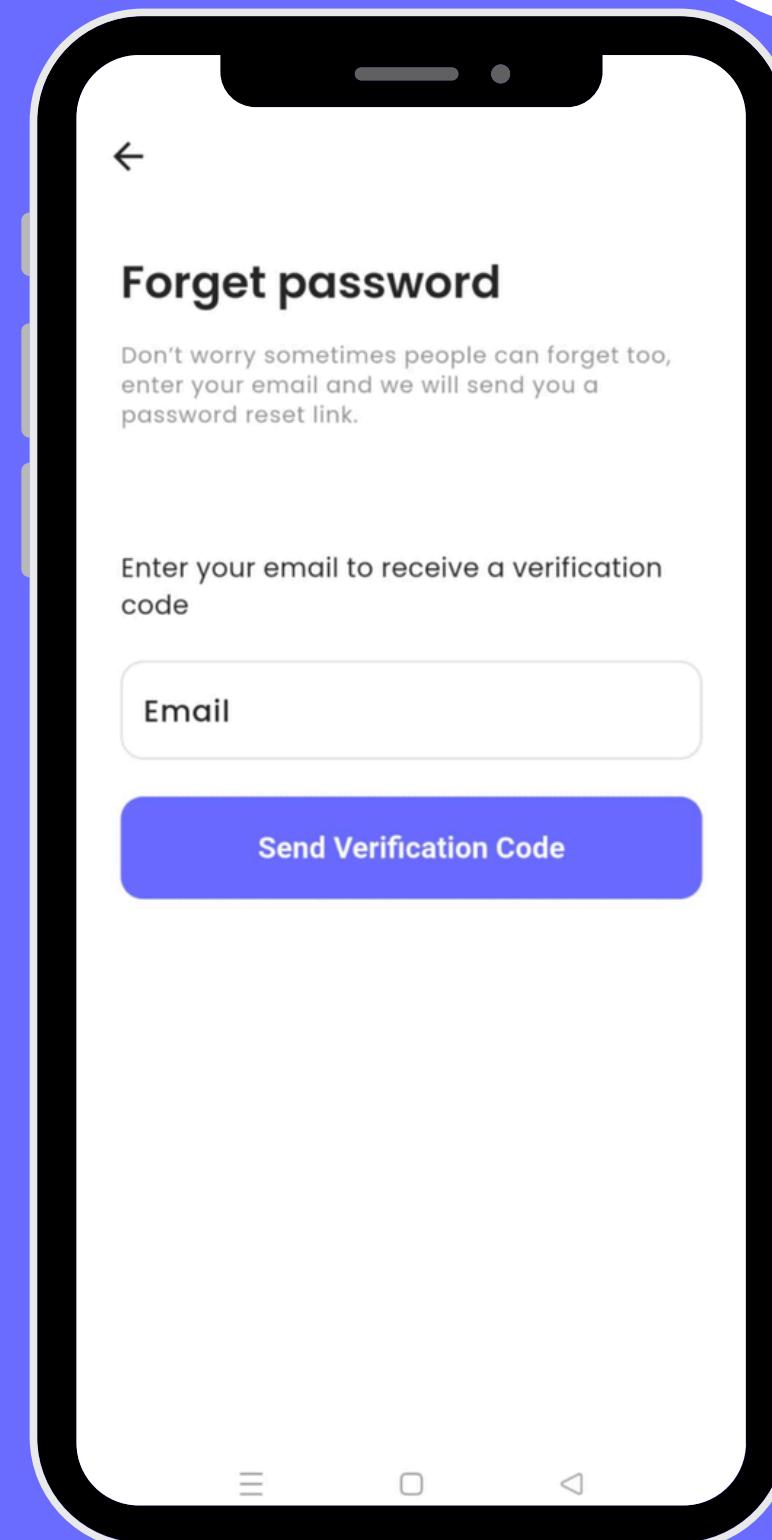
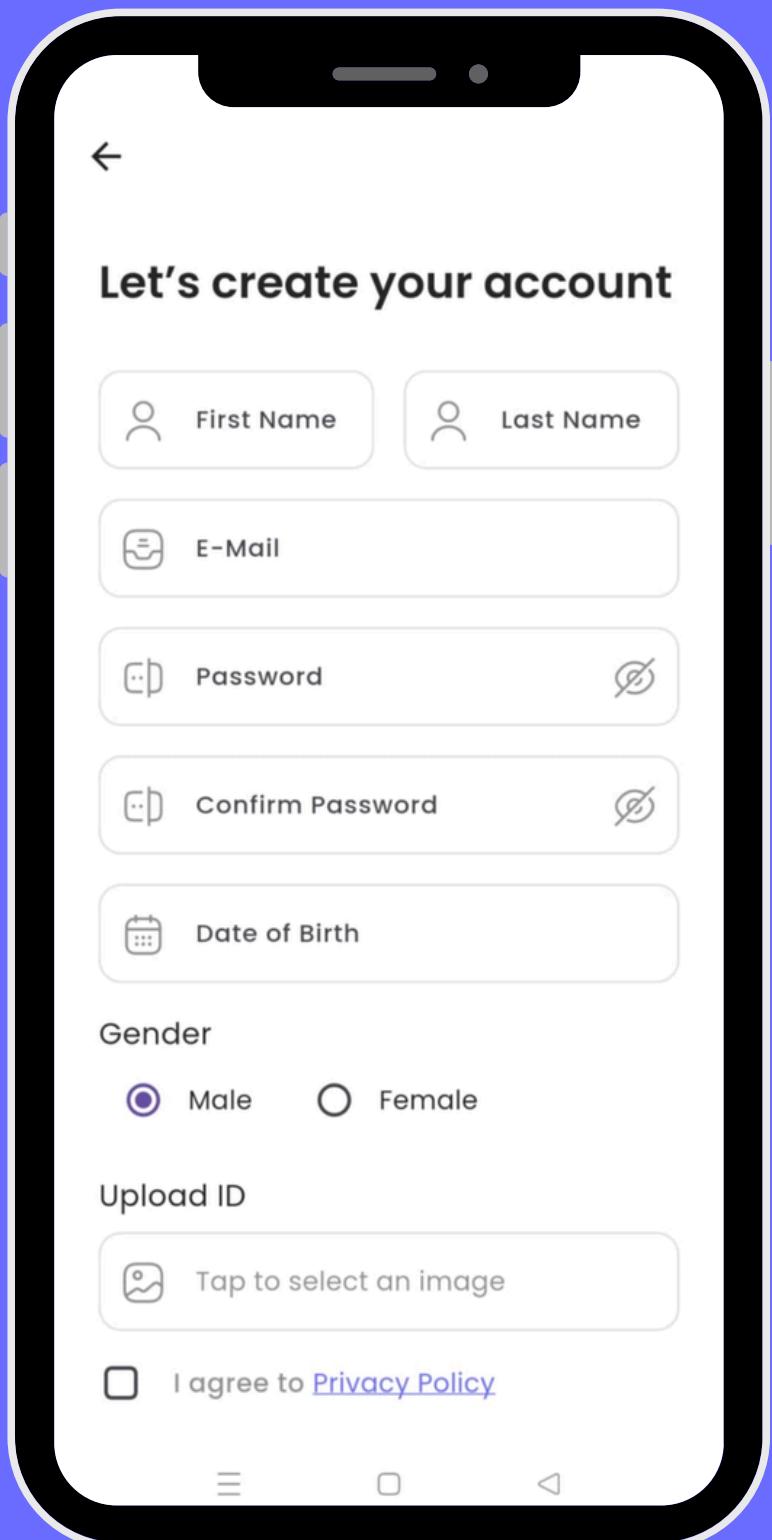
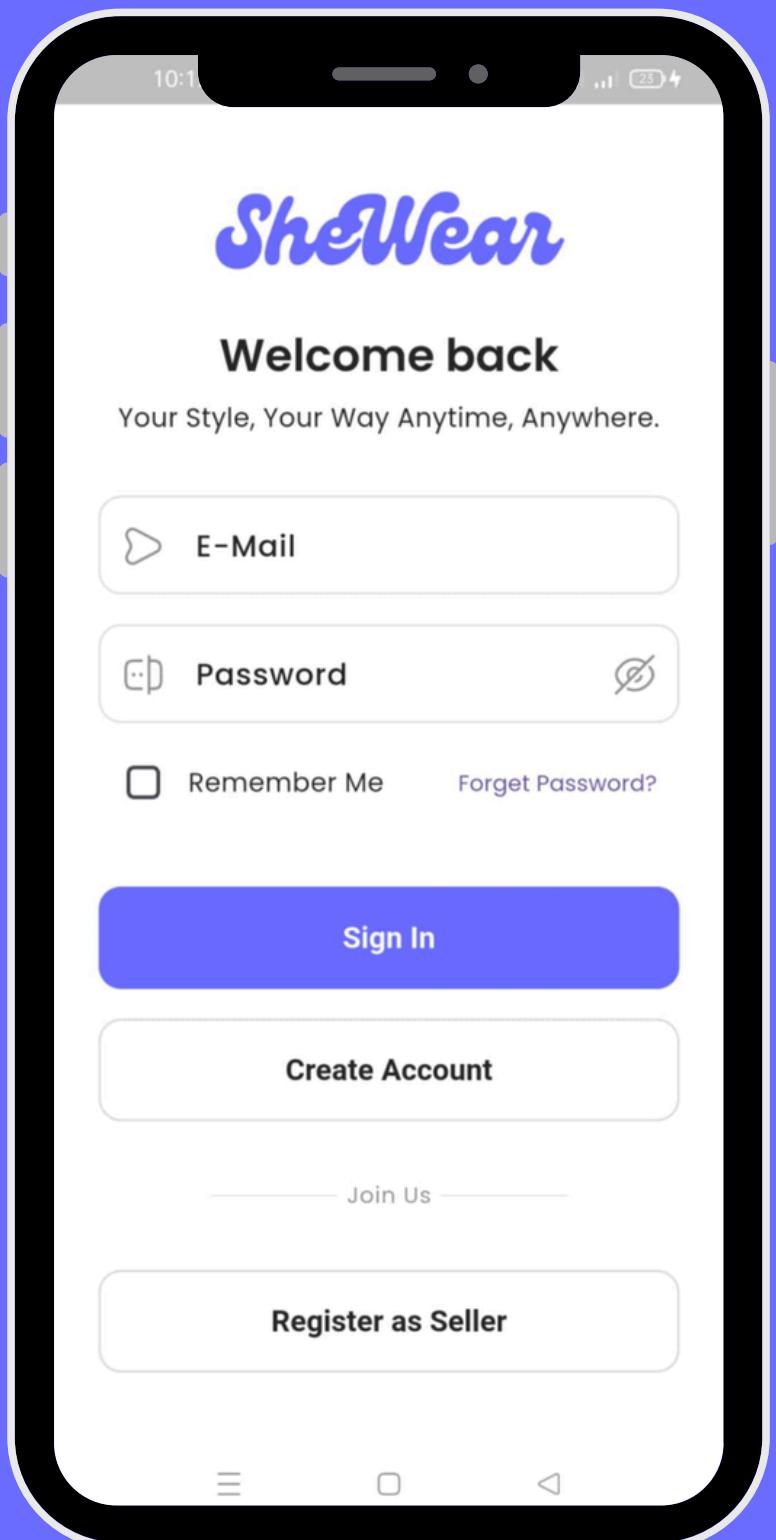


CHALLENGES

- Keeping data synced across devices
- Managing large amounts of data (inventory, orders, users) efficiently
- Ensuring data is not corrupted or duplicated during inserts/updates
- Making the app user-friendly
- Managing different user roles
- Managing code for various modules becomes complex
- Ensuring the app looks and works properly on all screen sizes and device types (phones, tablets).

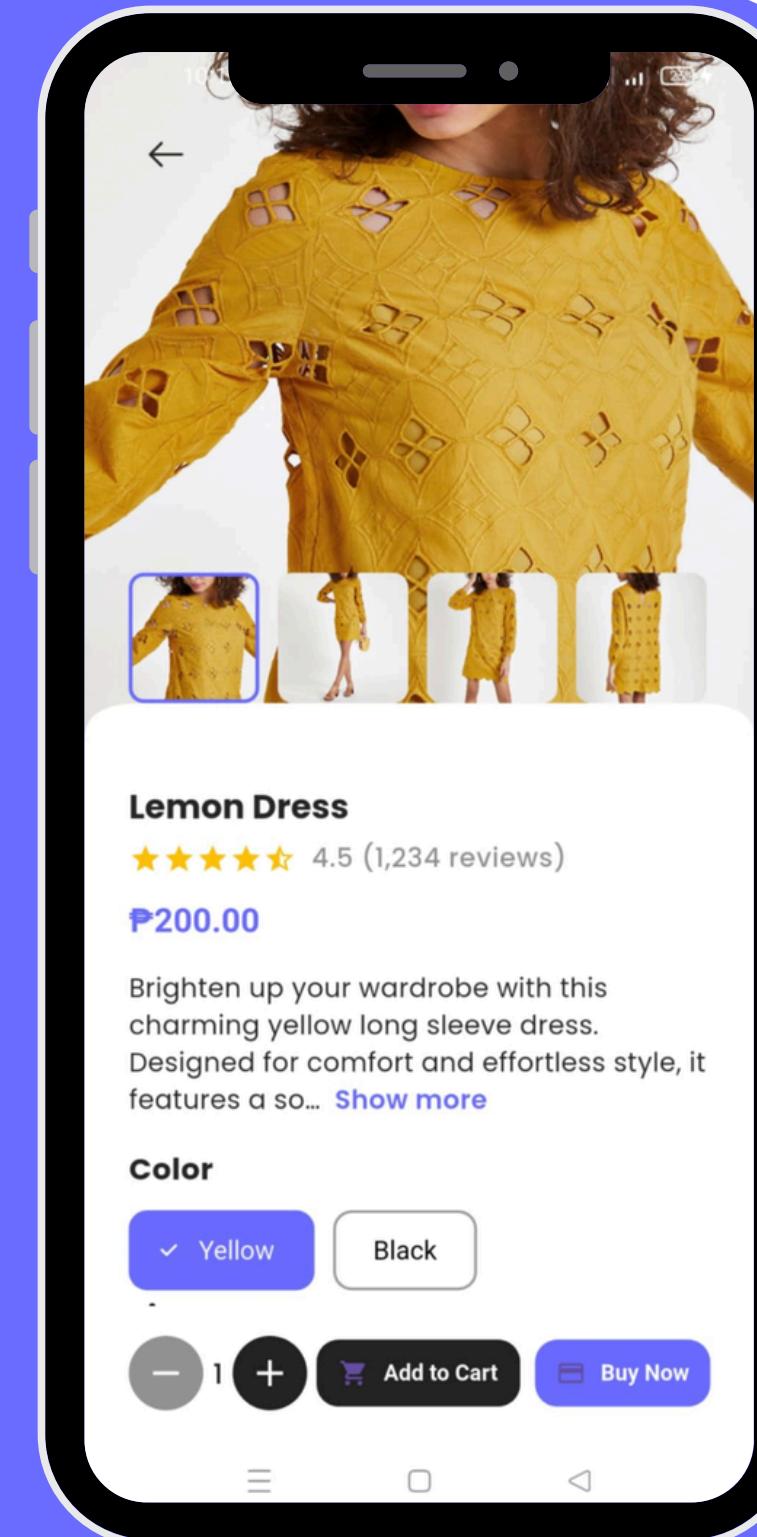
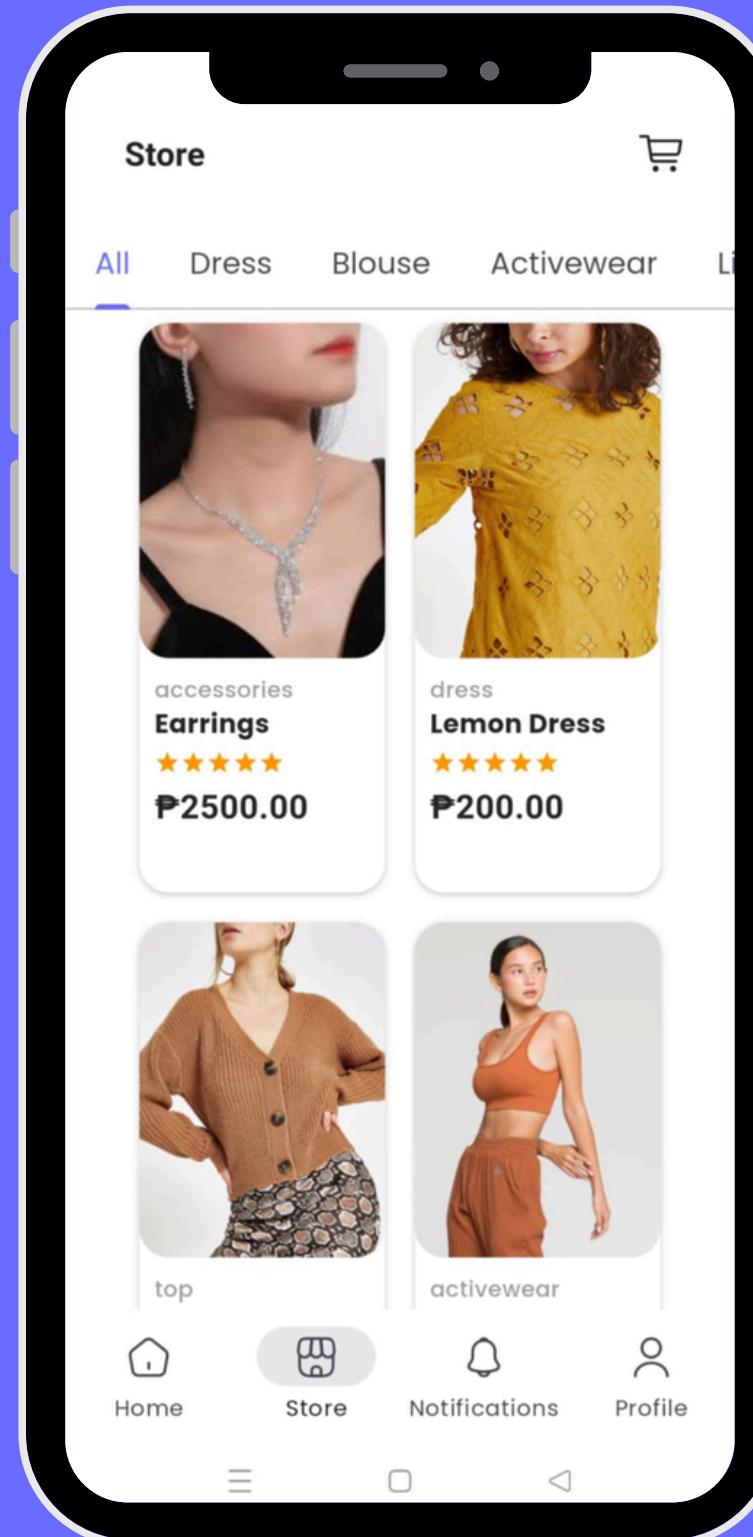
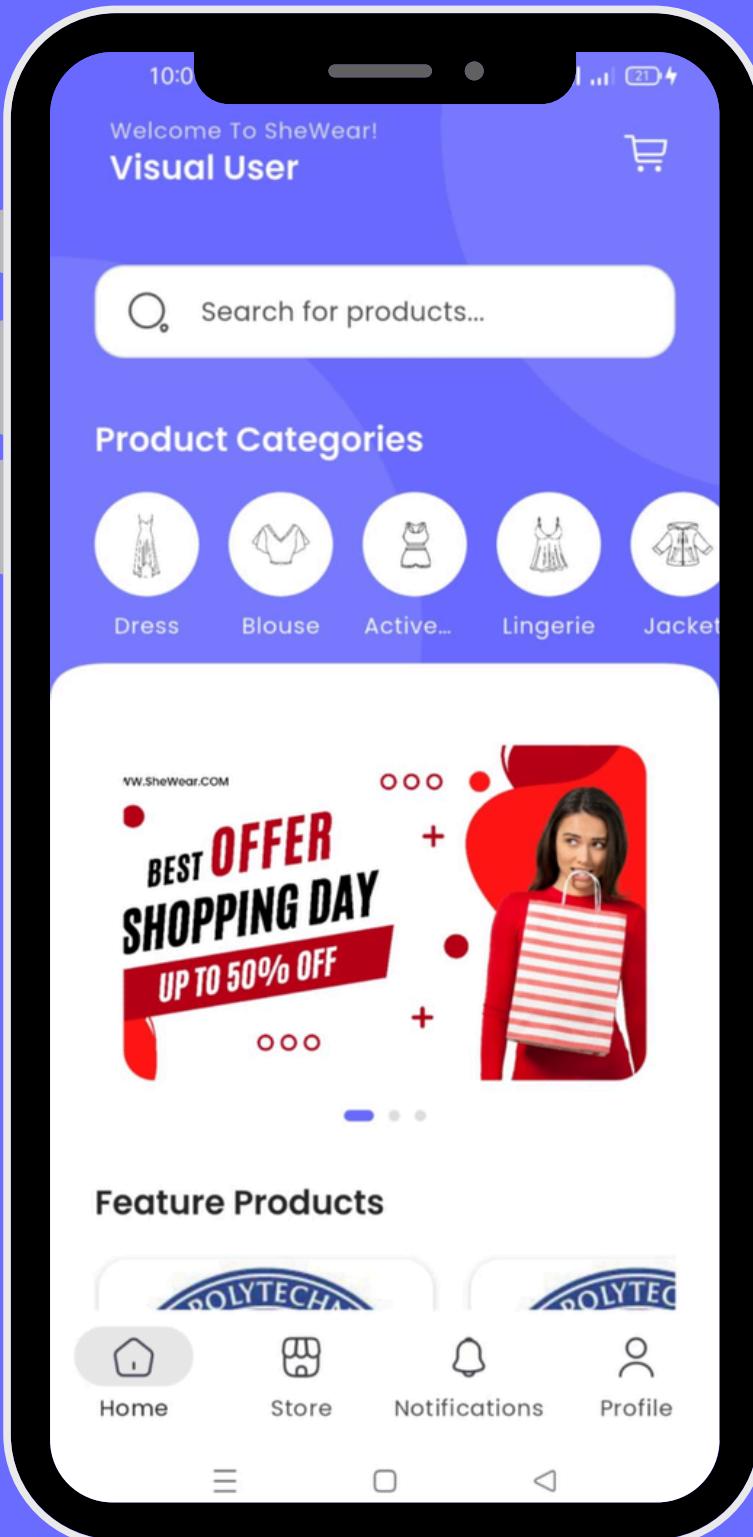
SCREENSHOTS

BUYER



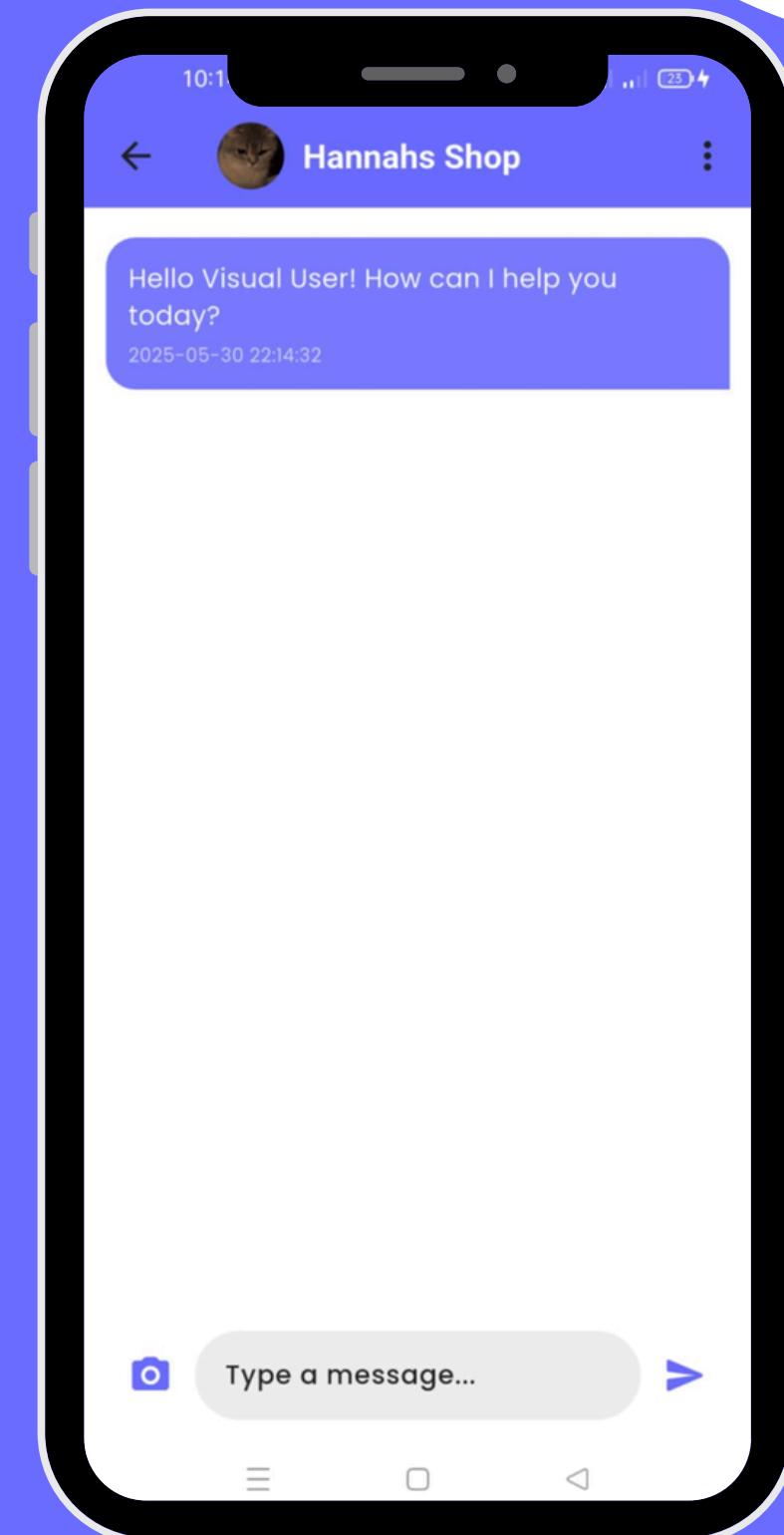
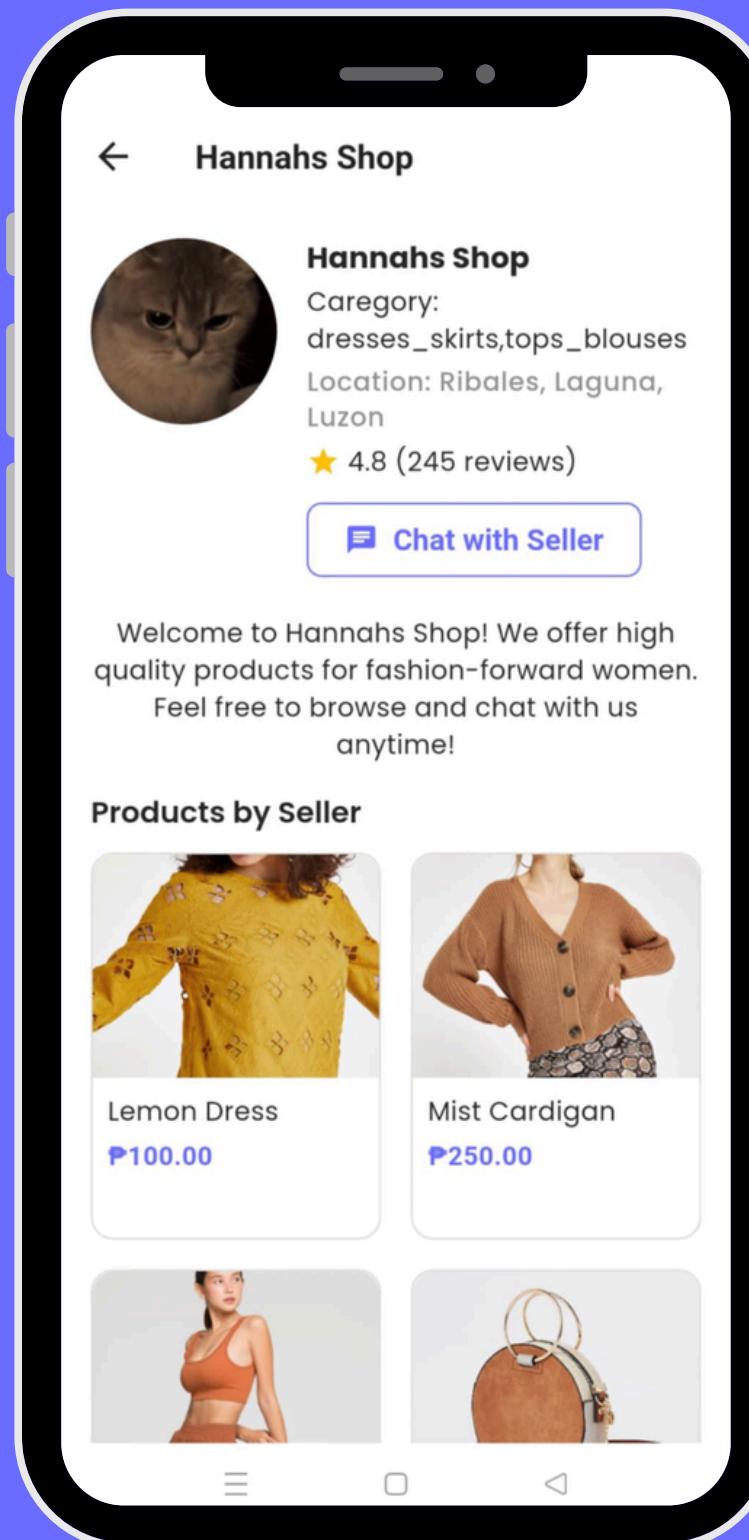
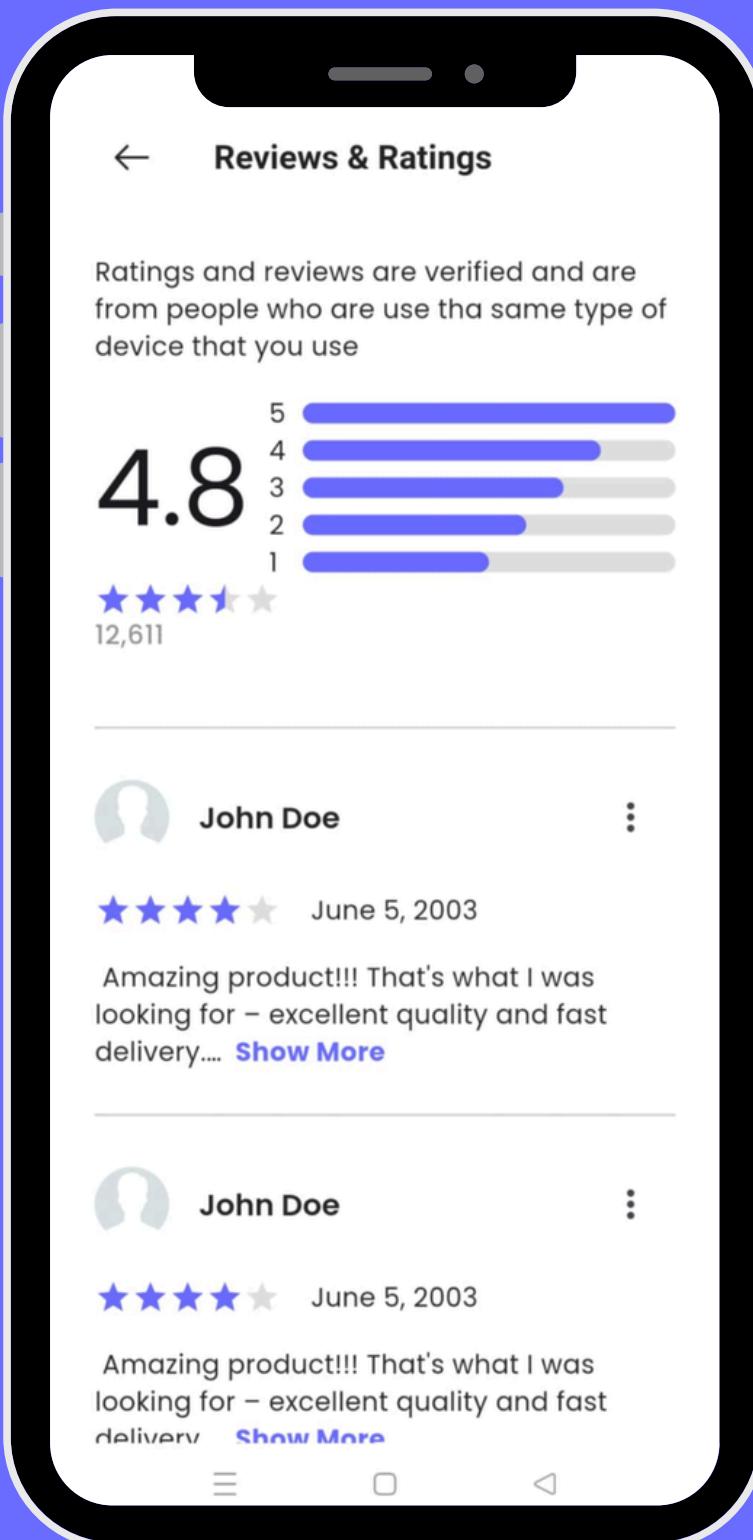
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BUYER



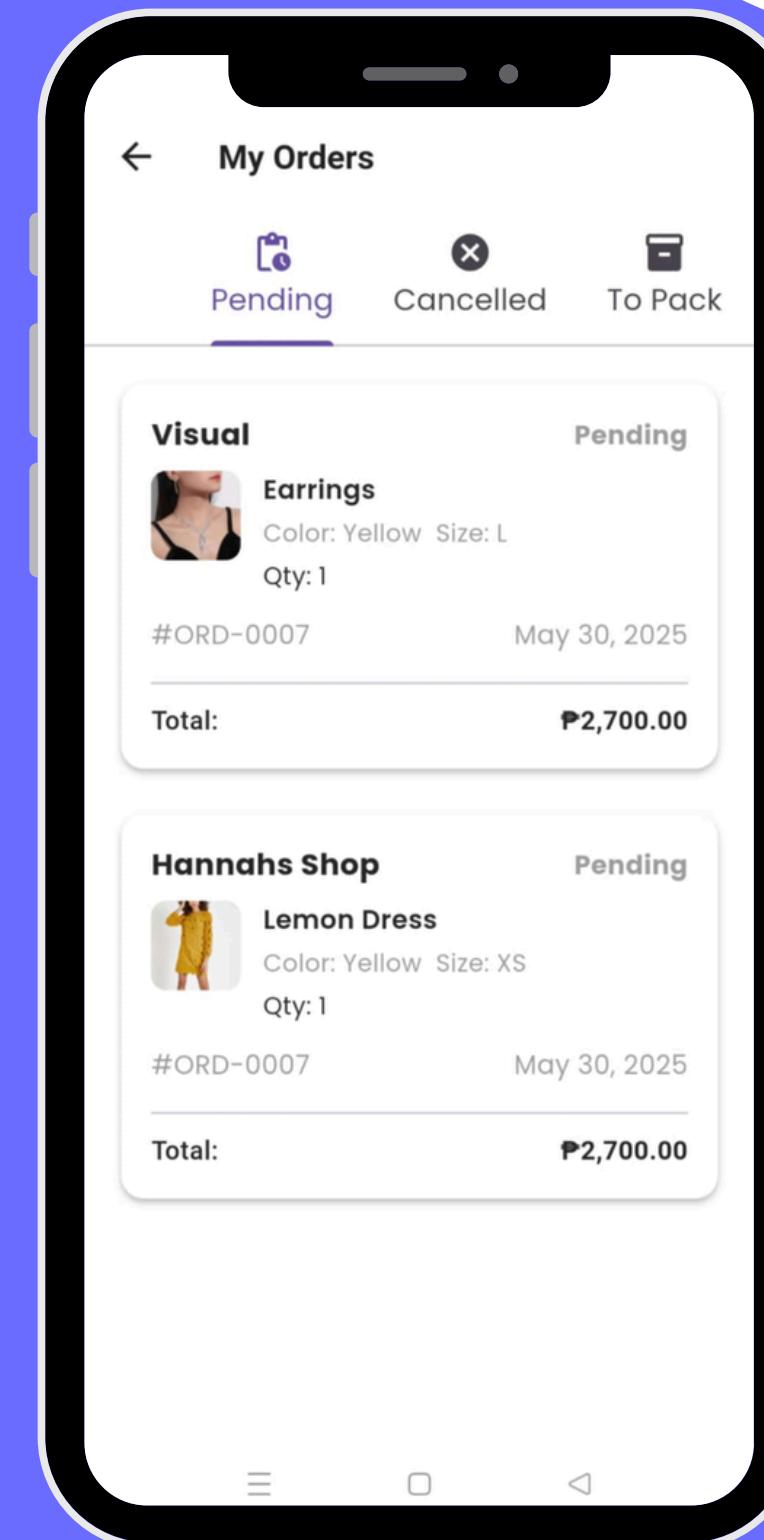
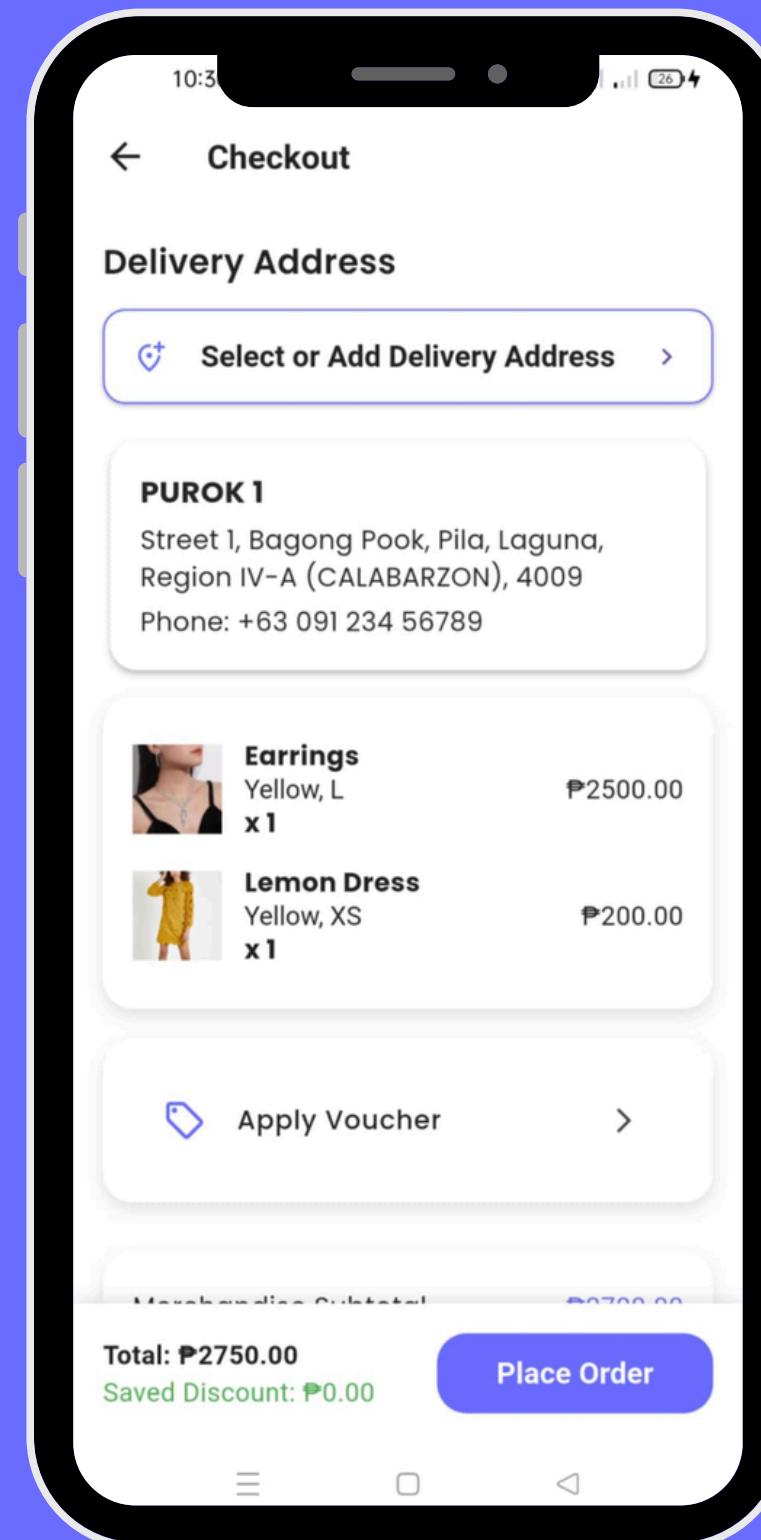
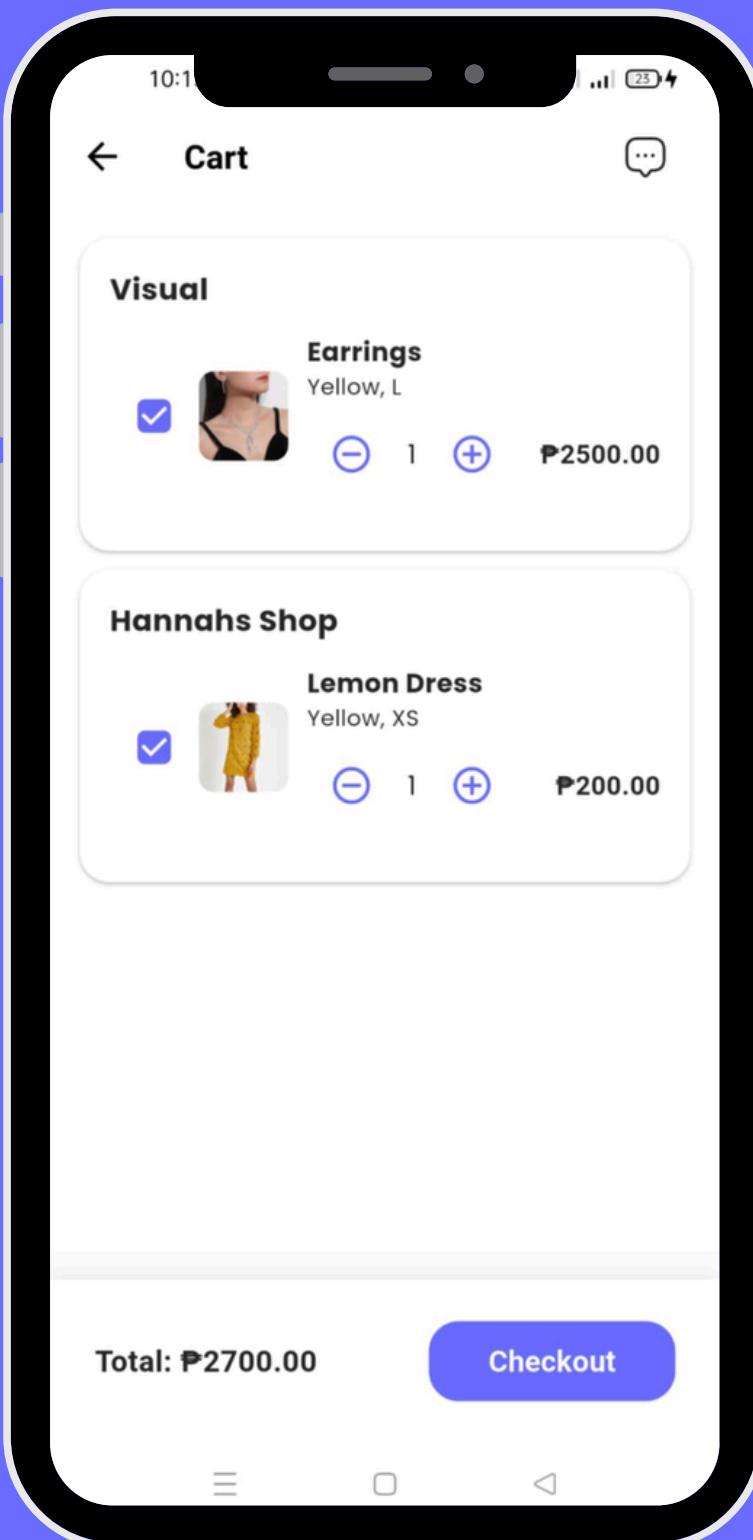
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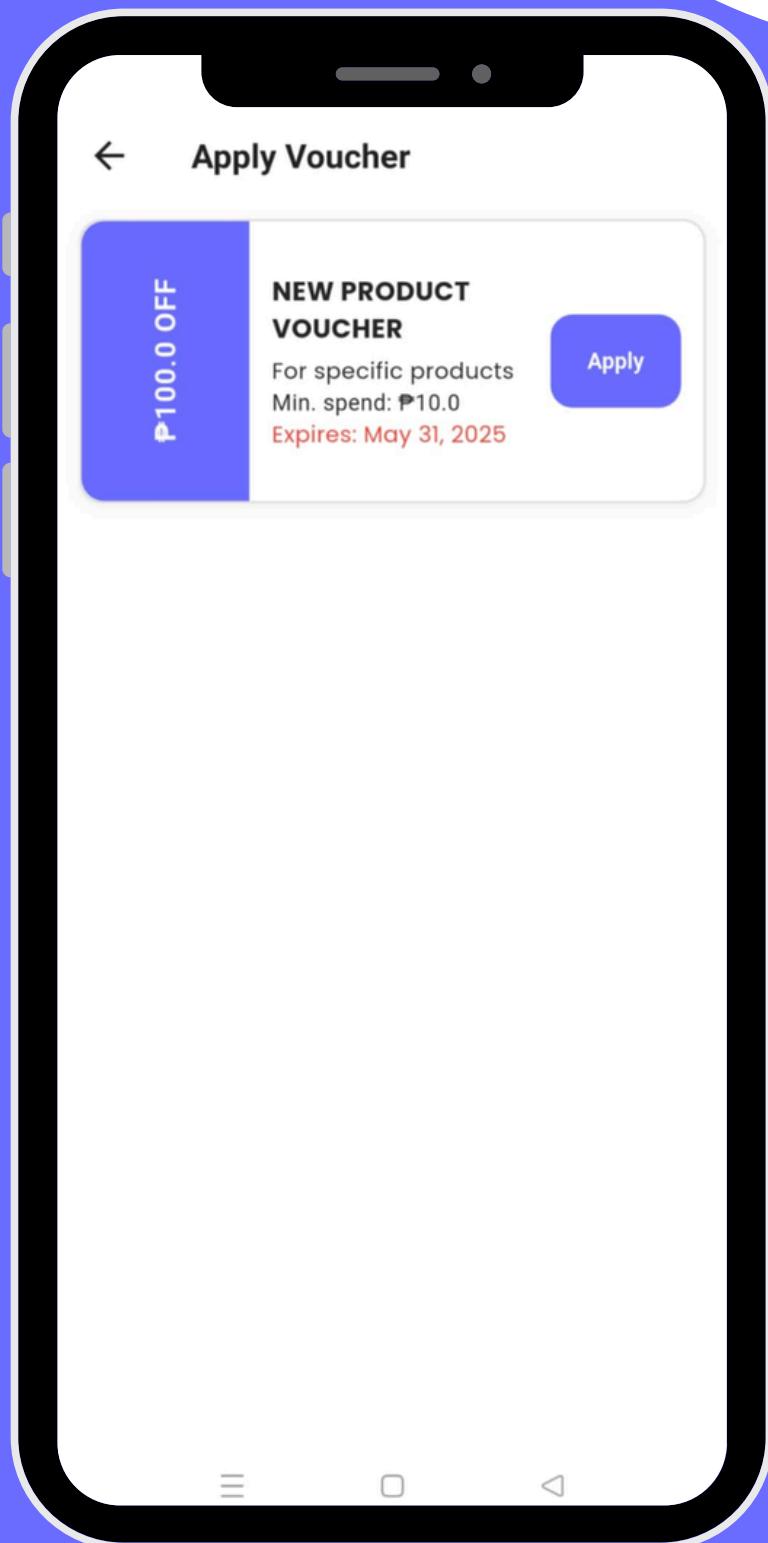
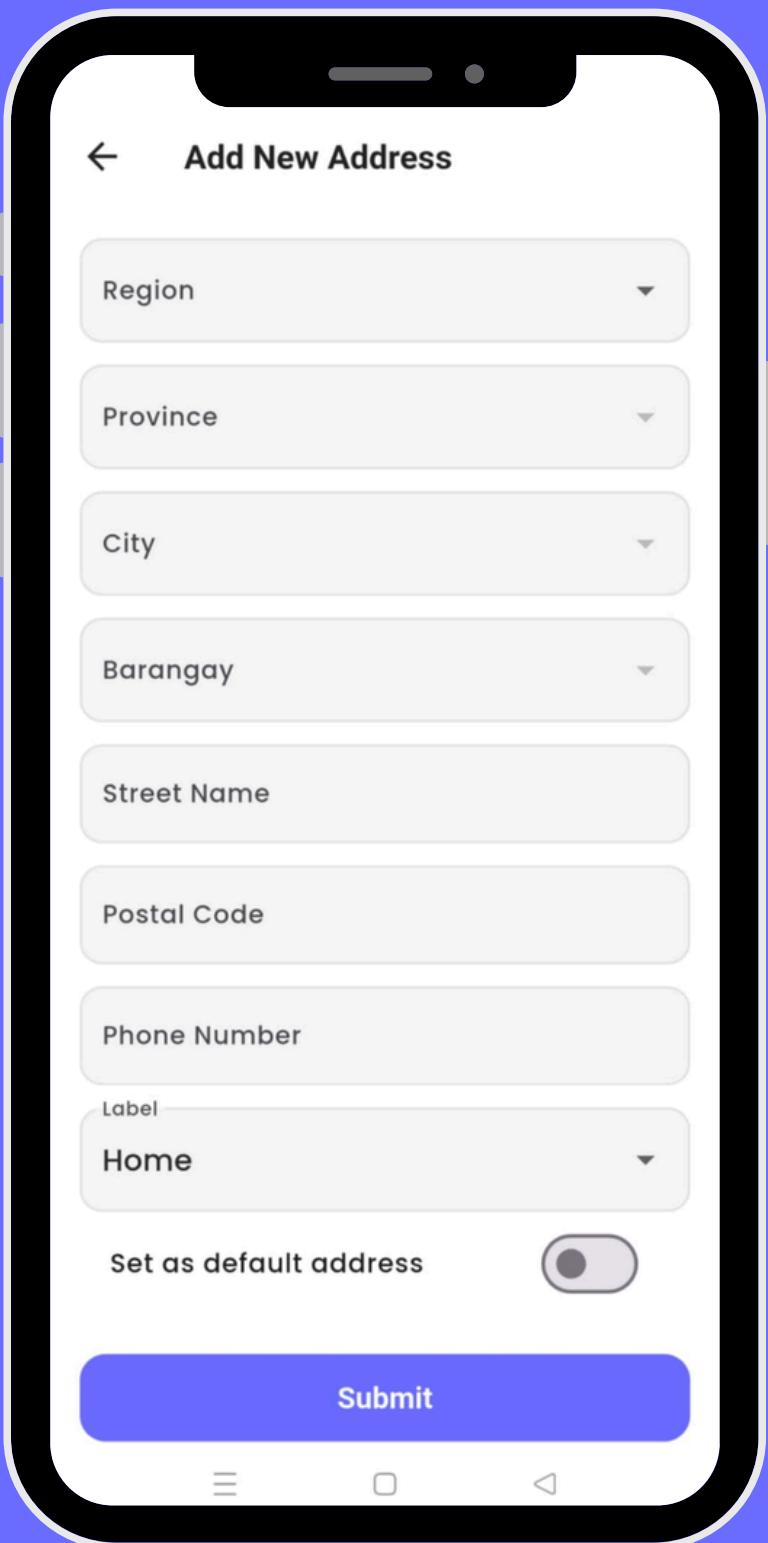
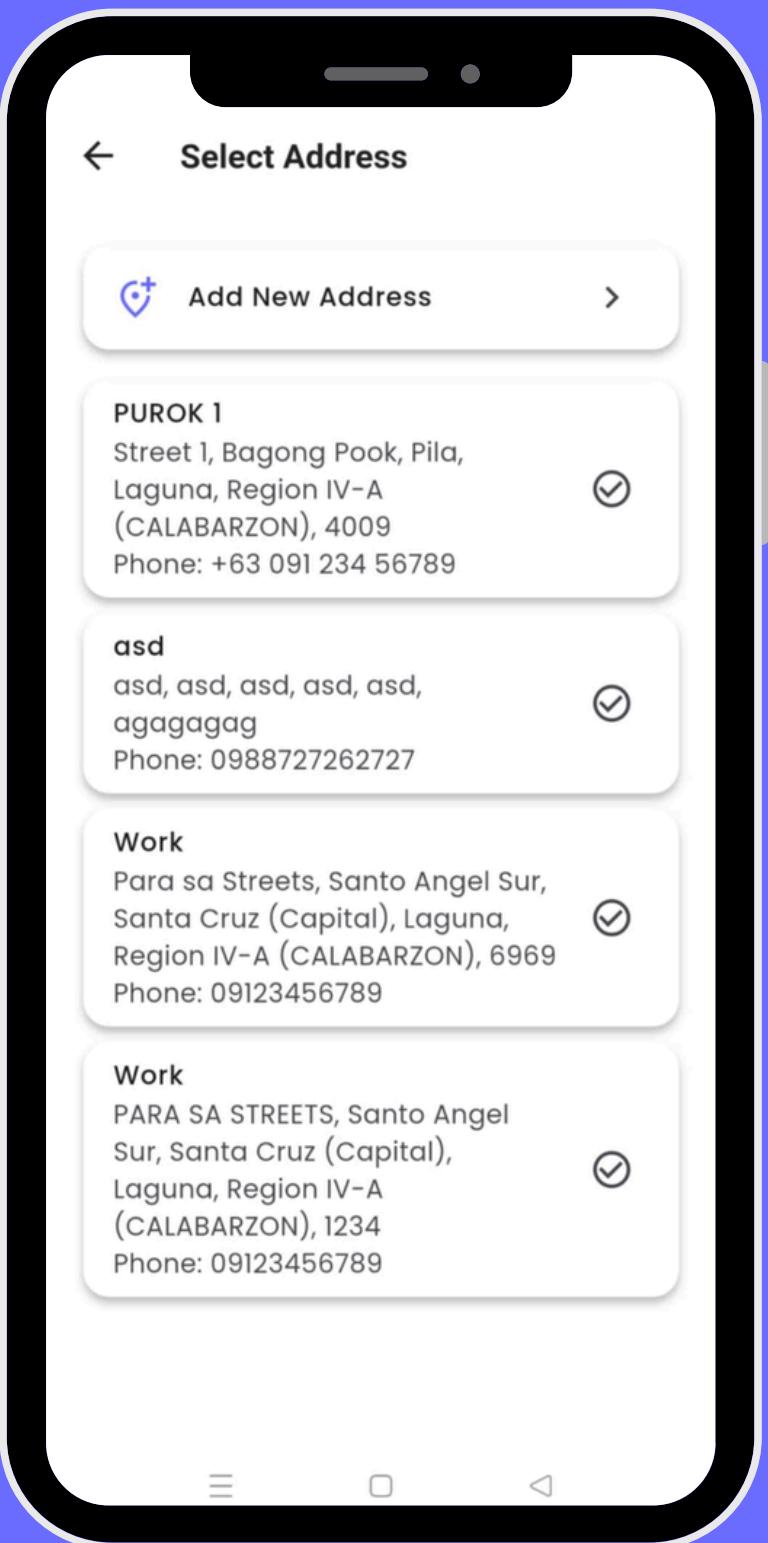
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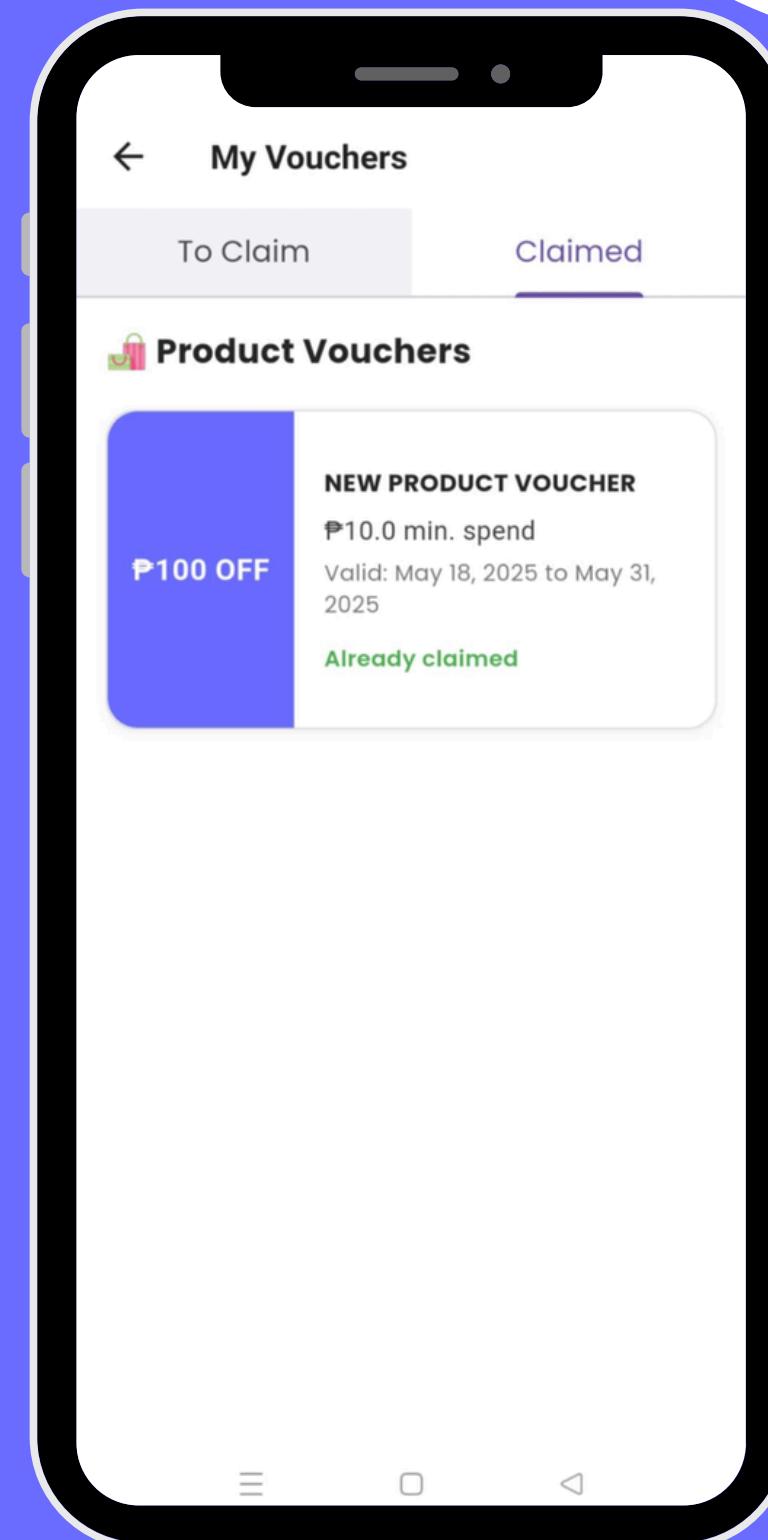
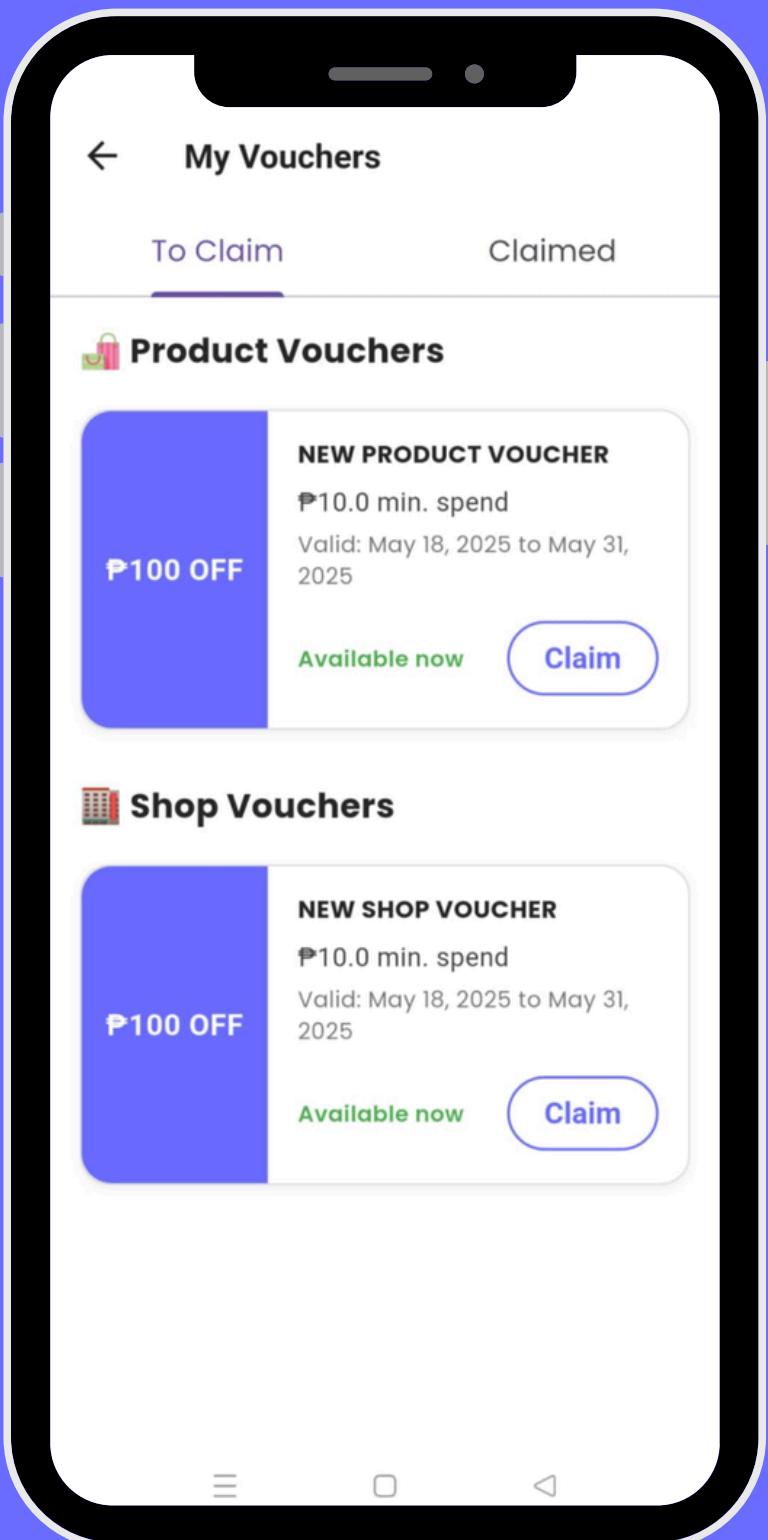
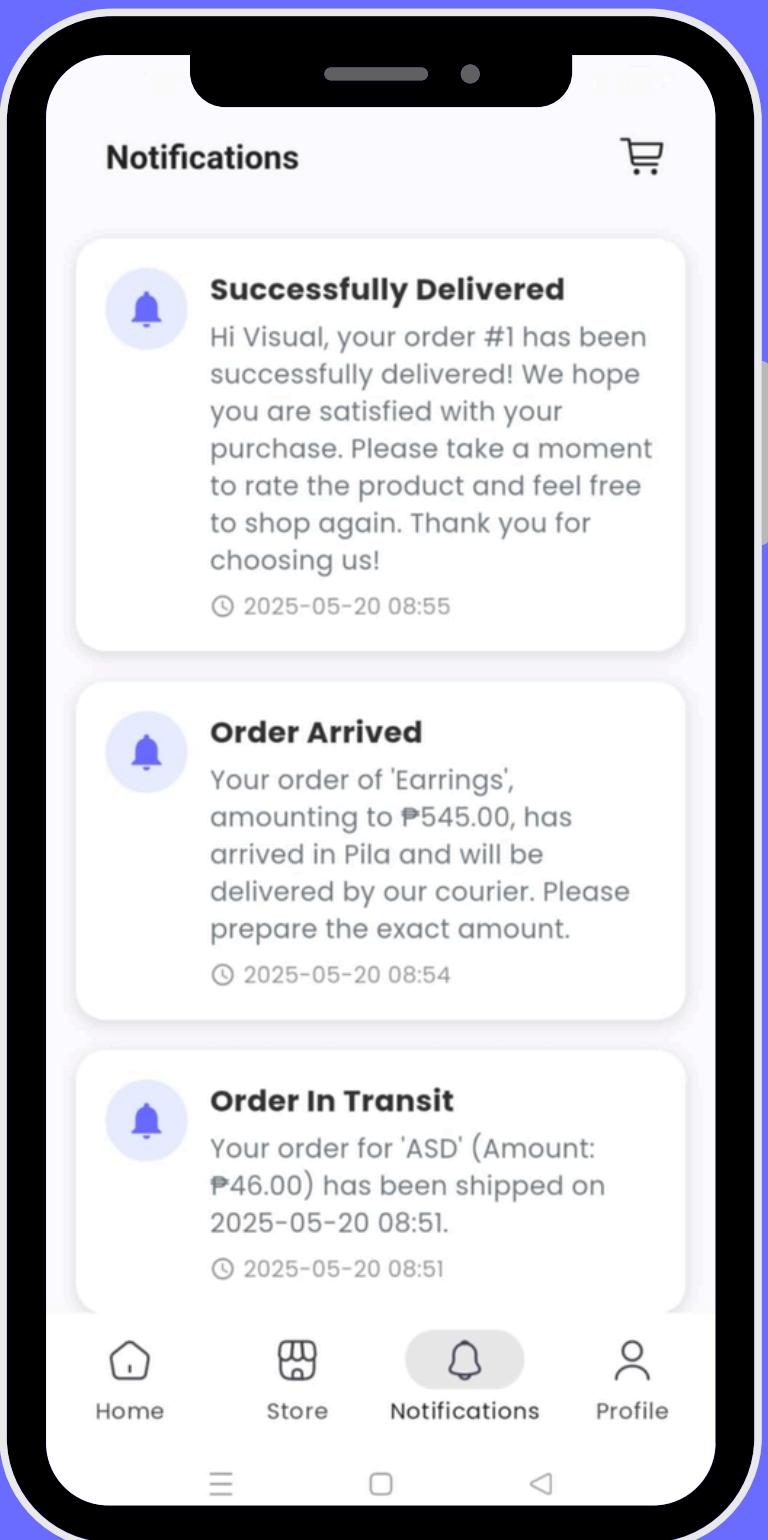
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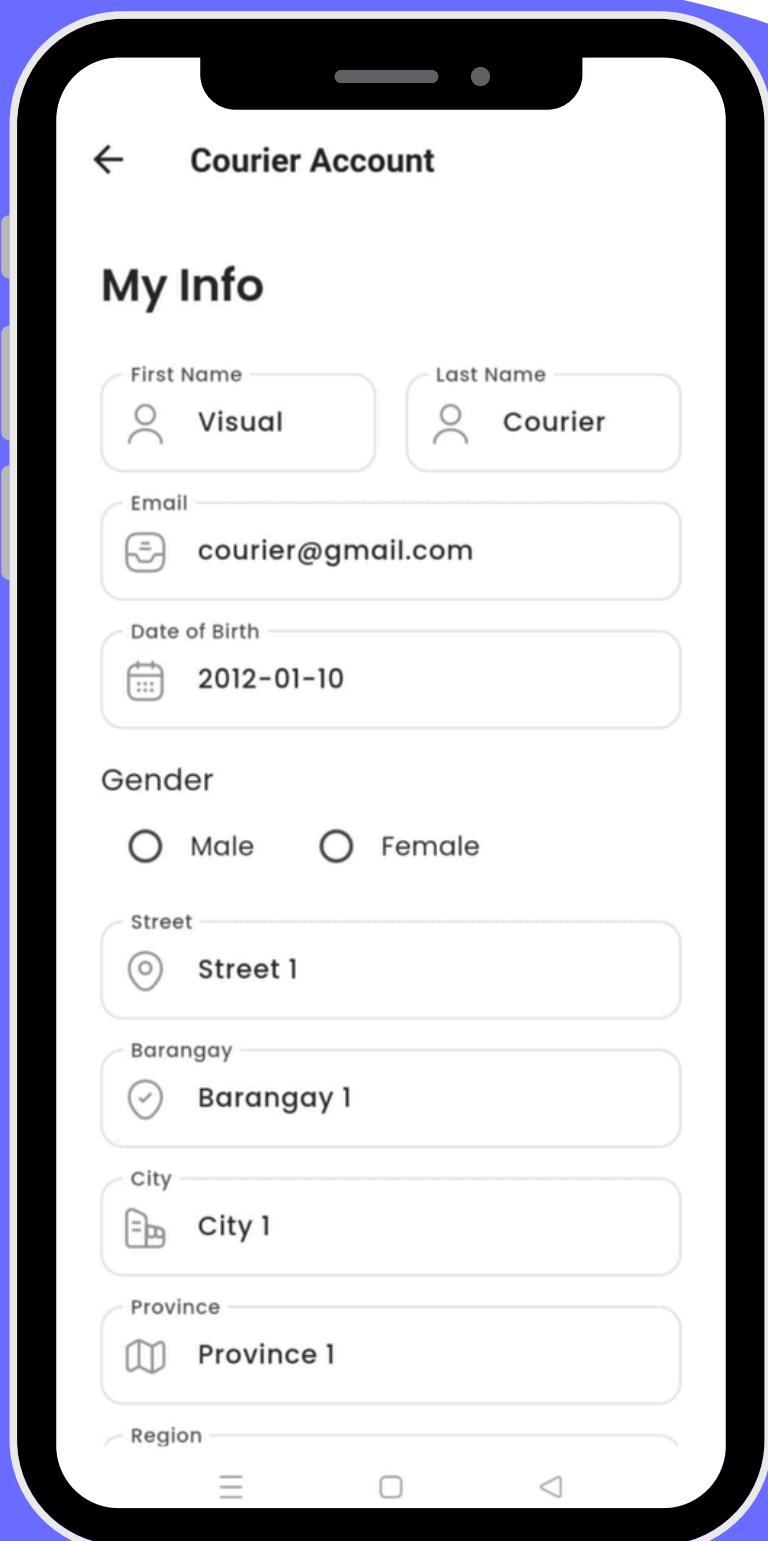
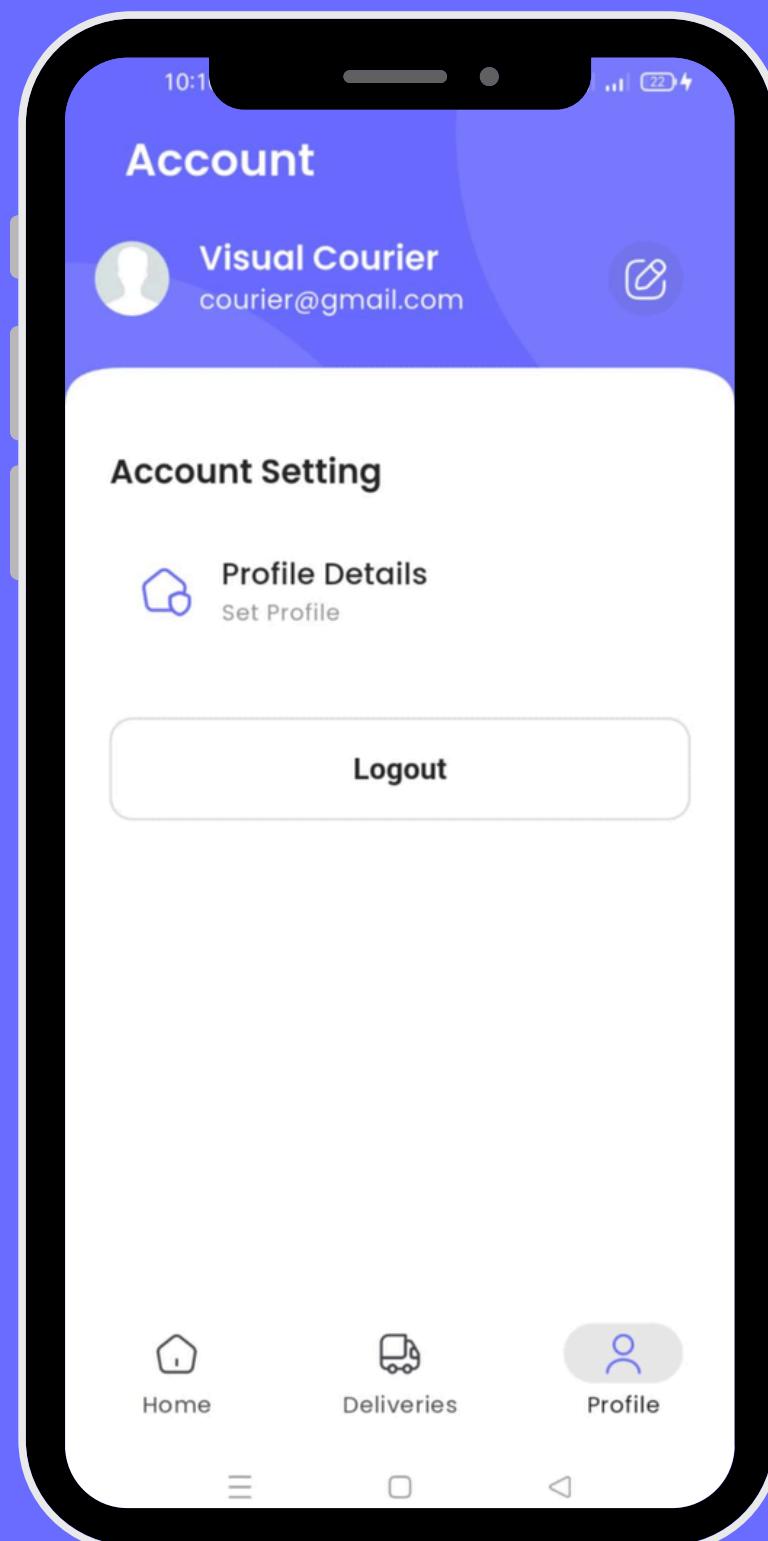
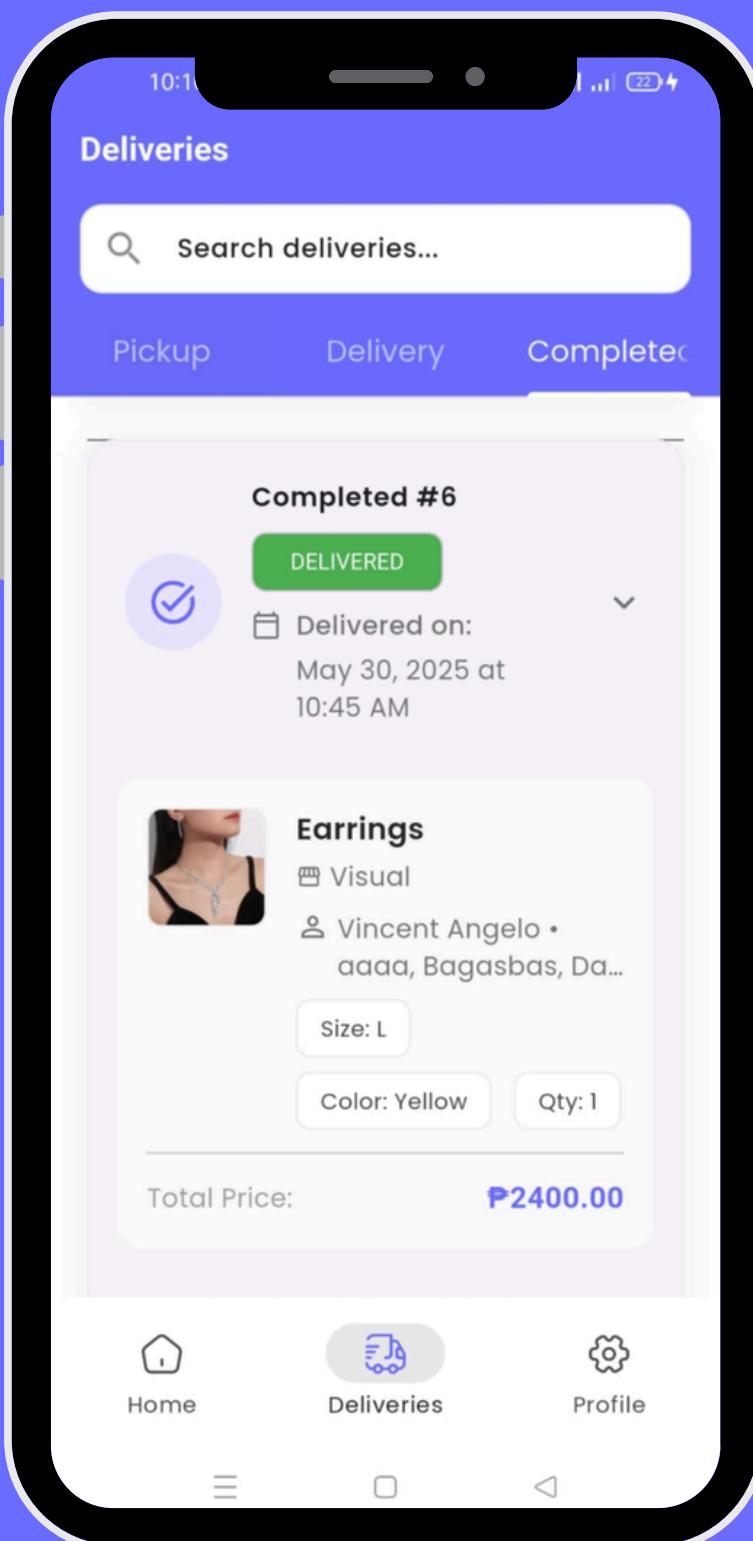
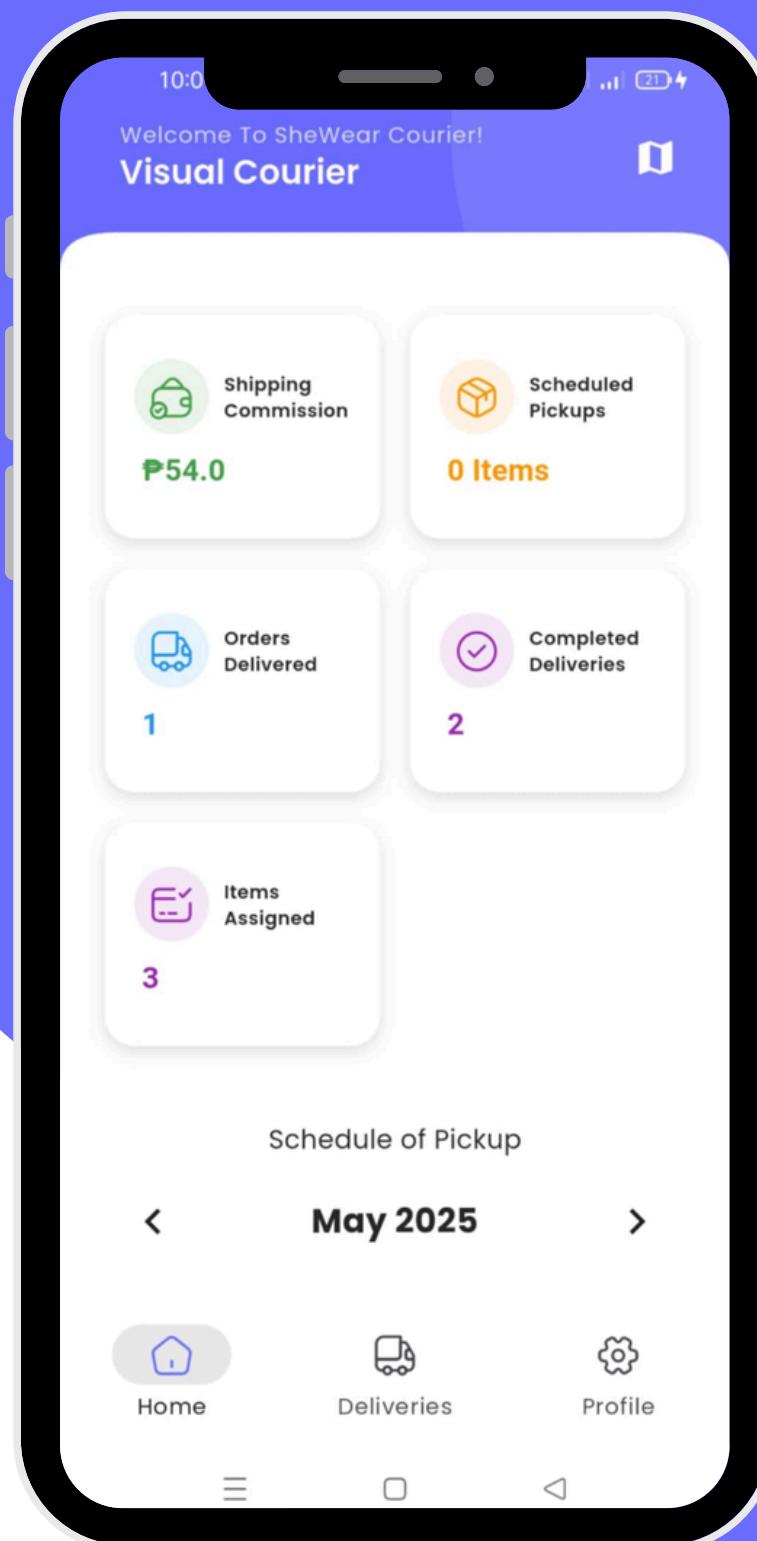
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BUYER



SCREENSHOTS

COURIER



Languages and Technology Used:

HTML



HTML (HYPERTEXT MARK-UP LANGUAGE)

HTML creates the foundation of a website, organizing content into elements like headings, text, images, links, forms, buttons, and other elements that make up the page structure.

CSS (CASCADING STYLE SHEET)



CSS styles the website by defining layouts, colors, fonts, and responsiveness, creating a visually appealing and user-friendly experience.

Languages and Technology Used:

DART



Dart

Dart provides an object-oriented structure with features like classes, functions, and asynchronous programming, and is commonly used with the Flutter framework to create visually rich, cross-platform user interfaces.

FLUTTER



Flutter

Flutter is an open-source UI toolkit, uses the Dart programming language and provides a rich set of pre-designed widgets that help developers create fast, beautiful, and responsive user interfaces.

Languages and Technology Used:

BOOTSTRAP



It simplifies the process of making the site responsive and includes ready-to-use components (e.g., navigation bars, modals) that can speed up development.

JAVASCRIPT

It powers interactive elements (e.g., search suggestions, product filters, and form validation) that enhance the user experience and improve engagement.



Languages and Technology Used:

JSON (JavaScript Object Notation)



JSON is commonly used to send data between the server and client, such as loading product information, user preferences, and order details.

Python (Flask Framework)

Flask is used on the backend to handle requests, manage the database, and process business logic, like handling customer orders, user authentication, and payment processing..



Environment/ Frameworks Used:



FLASK

Used for its lightweight, modular, and flexible design, making it ideal for a scalable e-commerce website.

Werkzeug

Werkzeug provides the following functionality:
Request processing. Response handling. URL routing



werkzeug

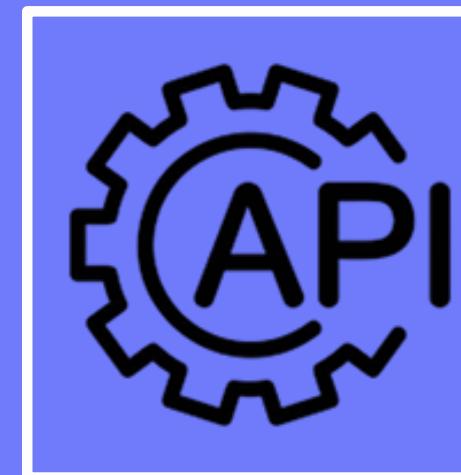
Environment/ Frameworks Used:



SQLAlchemy

Object-Relational Mapping (ORM) library, allowing us to interact with the database in a Pythonic way. Simplifies database CRUD operations without writing SQL queries directly.

API (Application Programming Interface)



APIs enable integration with external services (e.g., payment gateways, shipping providers) and allow data exchange between the frontend and backend, making it essential for smooth e-commerce operations.

Extensions Used:

FLASK-BCRYPT

- PROVIDES AN EASY WAY TO HASH PASSWORDS DURING REGISTRATION AND CHECK THEM DURING LOGIN.

FLASK-LOGIN

- TRACKS LOGGED-IN USERS, HANDLES SESSION EXPIRATION, AND SECURES PAGE ACCESS BASED ON USER AUTHENTICATION.

FLASK-MIGRATE

- ENABLES COMMAND-LINE DATABASE MIGRATIONS, HELPING MANAGE DATABASE SCHEMA UPDATES EASILY.

Libraries Used:

BCRYPT

- HASHES USER PASSWORDS BEFORE STORING THEM IN THE DATABASE, PROTECTING AGAINST DATA BREACHES.

Other Package Used:

FLASK-WTF AND WTFORMS

- SIMPLIFIES FORM HANDLING AND VALIDATION IN FLASK, USEFUL FOR BUILDING SECURE FORMS FOR SIGN-UP, LOGIN, CHECKOUT, ETC.

SUMMARY

In order to provide a smooth and captivating online shopping experience, SheWear combines a carefully chosen assortment of women's clothing with a strong technology foundation. Using HTML, CSS, JavaScript, Flask, and SQLAlchemy, together with DART and Flutter (for mobile), among other contemporary frontend and backend tools, SheWear offers a user-friendly, safe, and responsive platform that caters to the demands of contemporary women.

THANK YOU!