សាកលវិទ្យាល័យភូមិន្ទភ្នំពេញ
ROYAL UNIVERSITY OF PHNOM PENH

Motorcycle Shop Management

Mobile App Development
Professor: Taing PengSreng
Class: M1
Group: 4

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Introduction

Motorcycle Shop Management is a Flutter app that provides an e-commerce solution for motorcycle browsing and purchasing.

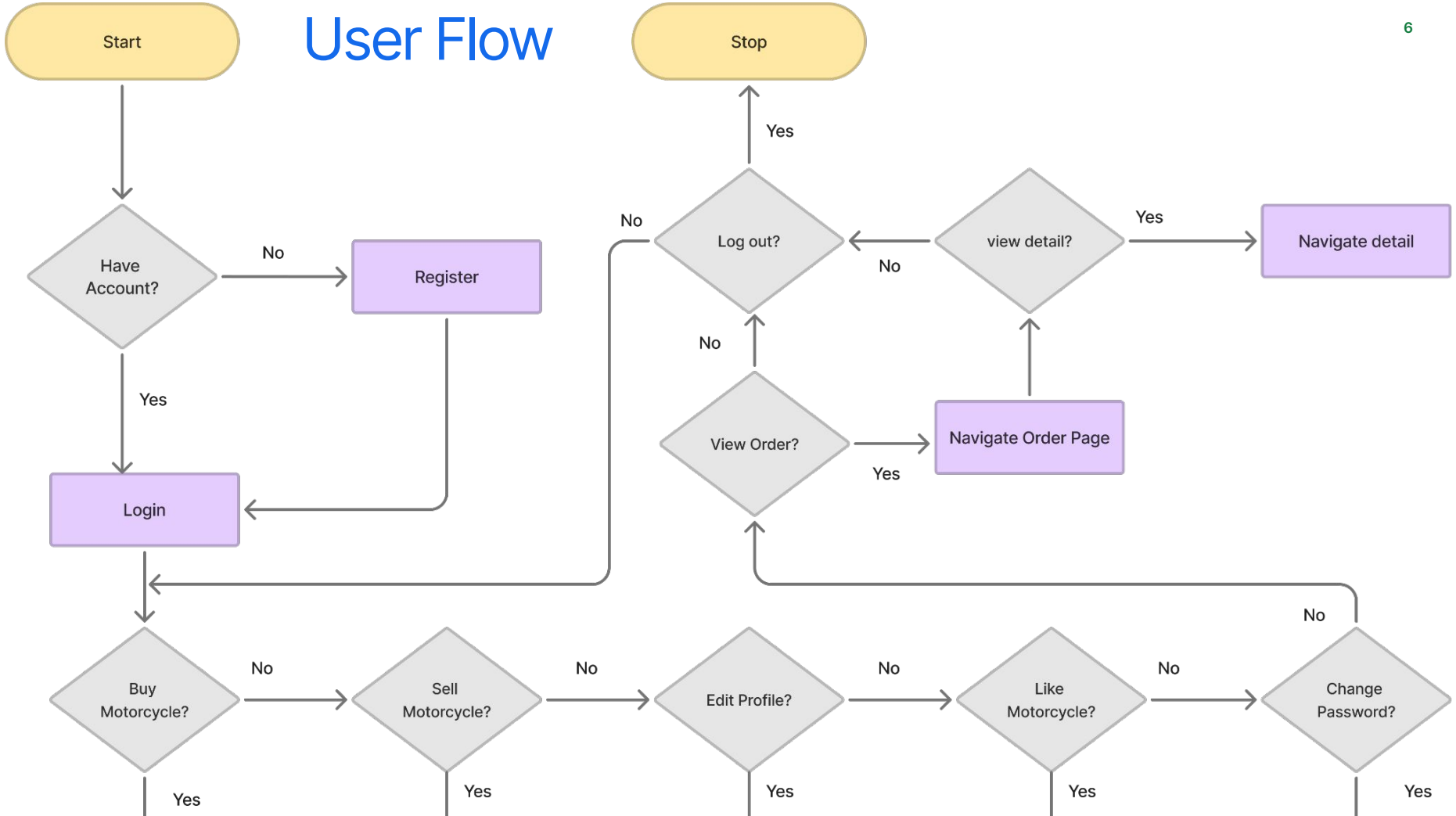
It combines a user-friendly interface with efficient order and inventory management to improve both customer experience and business operations.

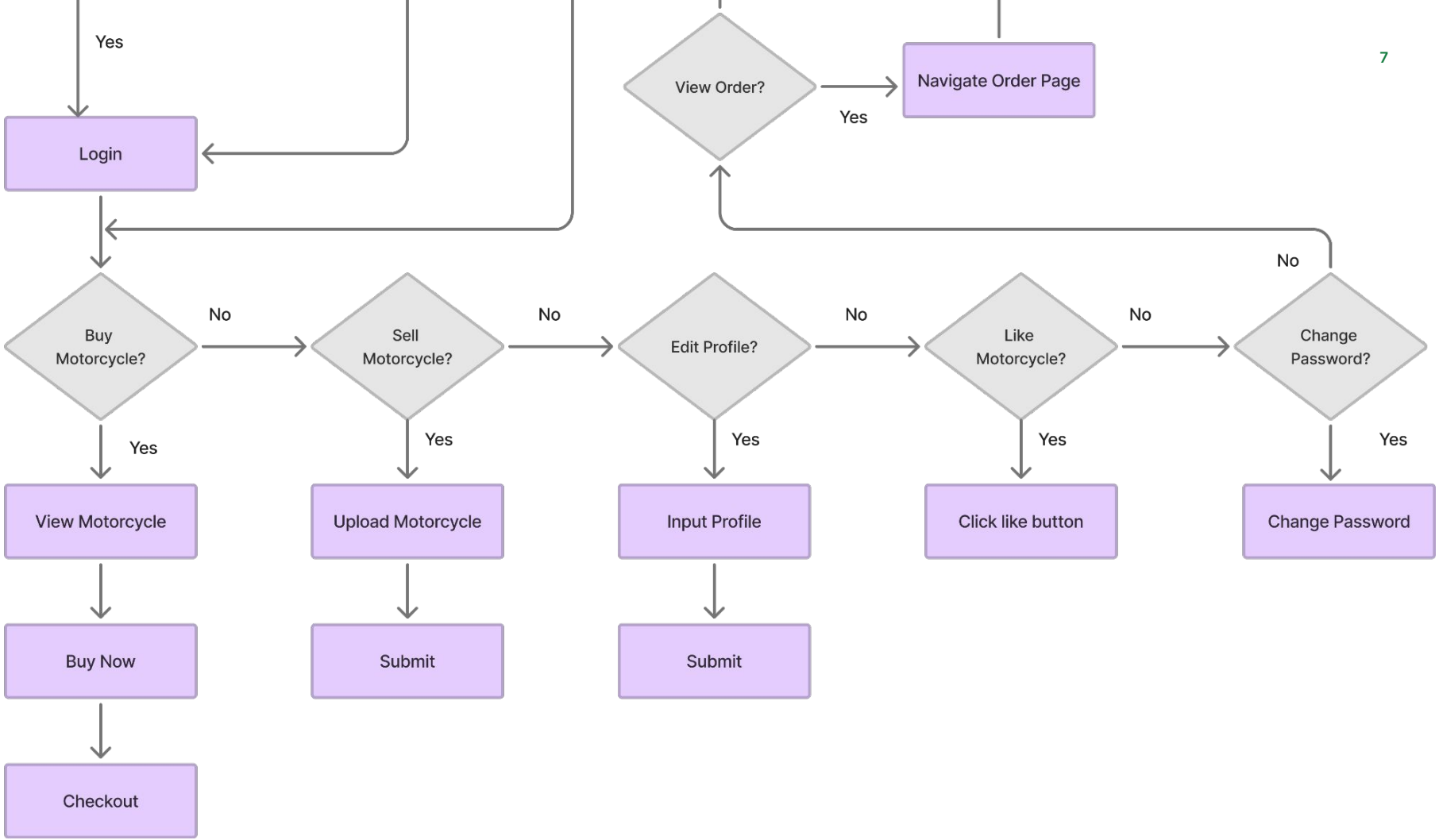
Features

- User login and registration with profile images
- Product catalog with categories

  (Sport, Cruiser, Off-Road, Scooter, Touring)
- Shopping cart with quantity management
- Favorites list
- Product upload with image
- AI chat assistant (SSE streaming)
- Order history and checkout
- Profile editing and password change

User Flow


Start
Have Account?
No
Register
Yes
Login
Buy Motorcycle?
No
Sell Motorcycle?
No
Edit Profile?
No
Like Motorcycle?
No
Change Password?
No
Yes
Yes
Yes
Yes
Yes
Log out?
No
Yes
Stop
view detail?
No
Yes
Navigate detail
View Order?
No
Yes
Navigate Order Page


Yes
Login
View Order?
Yes
Navigate Order Page
No
Buy Motorcycle?
No
Sell Motorcycle?
No
Edit Profile?
No
Like Motorcycle?
No
Change Password?
Yes
Yes
Yes
Yes
Yes
View Motorcycle
Upload Motorcycle
Input Profile
Click like button
Change Password
Buy Now
Submit
Submit
Checkout

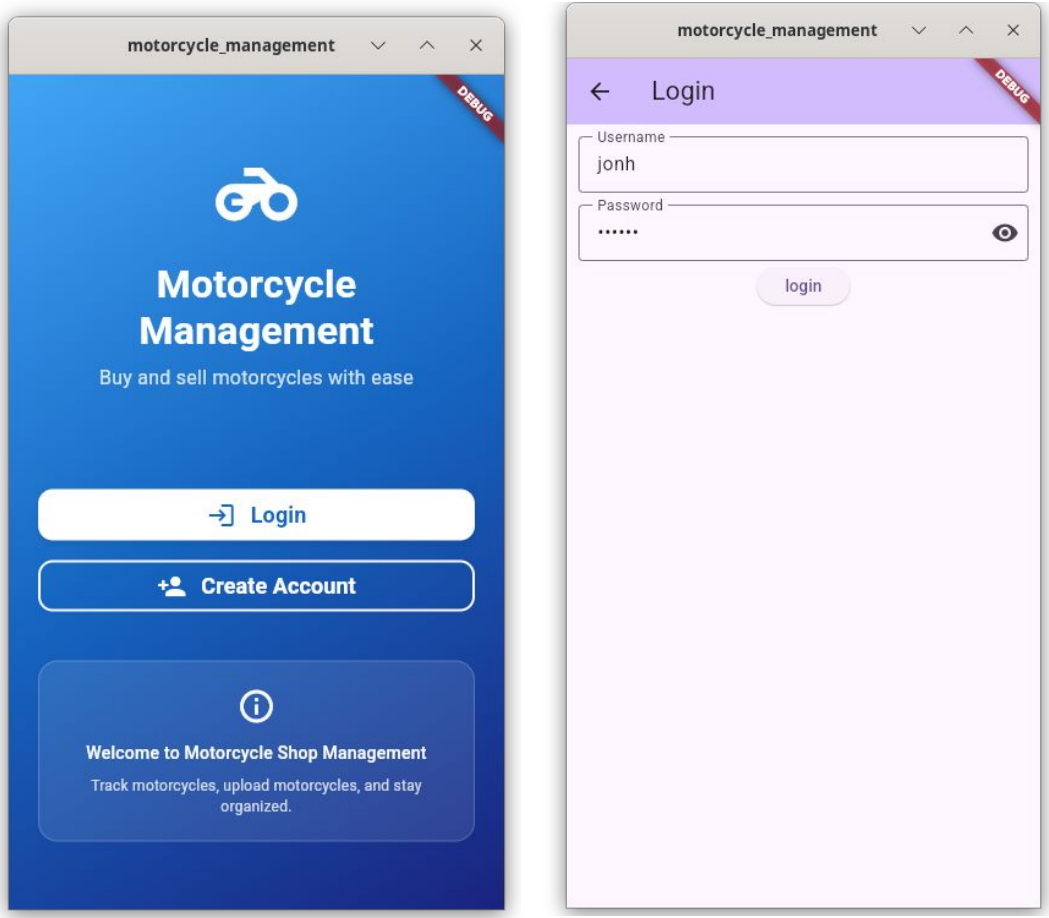
API Endpoints

This Flutter application connects to a Spring Boot backend API.

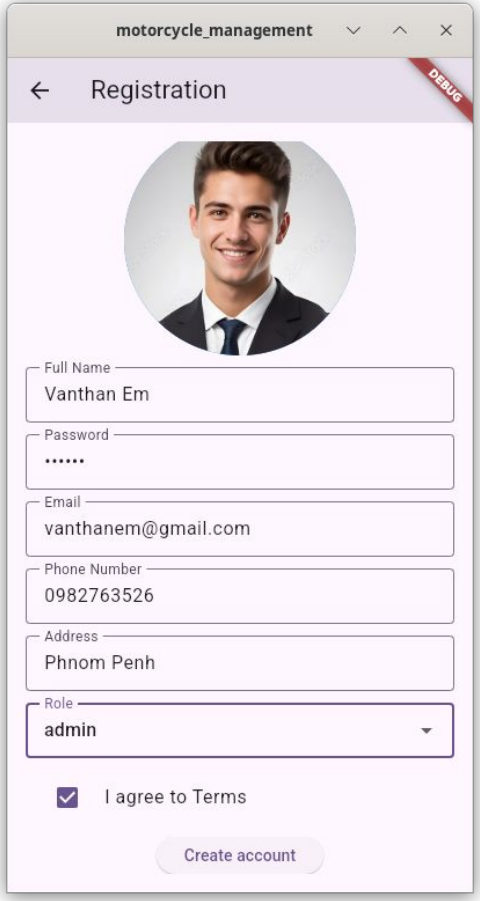
Endpoint	Methods	Description
/auth/login	POST	User login
/user	GET, POST	List/Create users
/product	GET, POST	List/Create products
/category	GET, POST	List/Create categories
/order	GET, POST	List/Create orders
/order-item	GET, POST	List/Create items
/chat	POST	AI chat stream

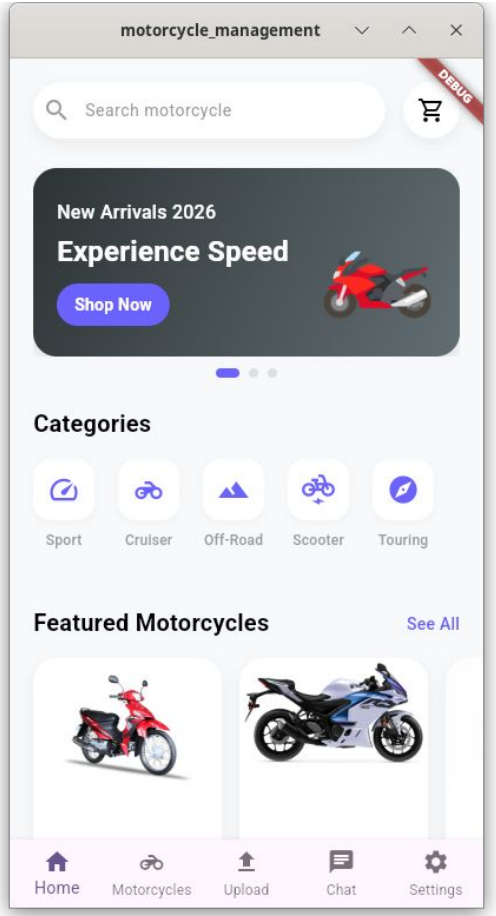
Screen

- Start screen welcome user when starting the application
- Login screen provide way to log user to the motorcycle application

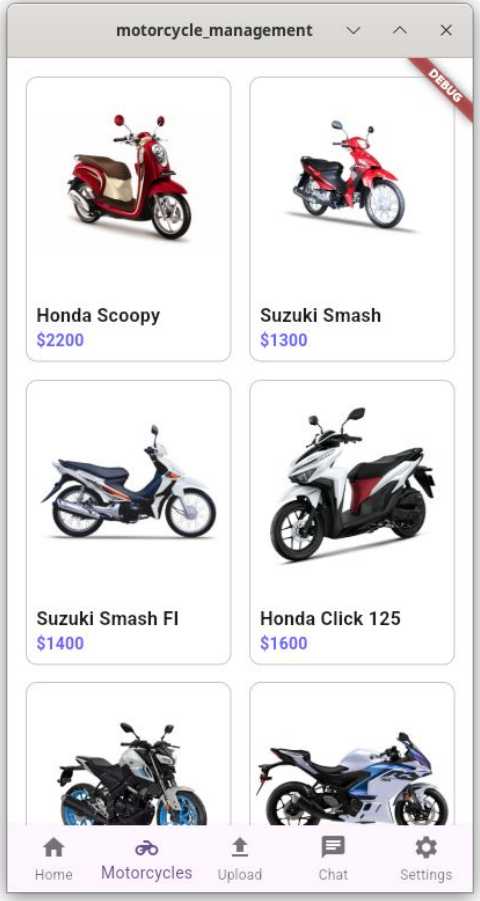


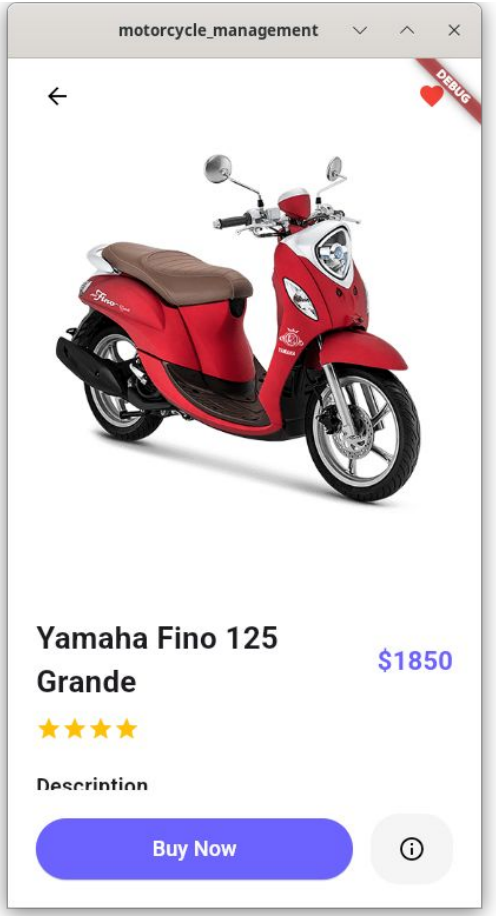
- Register screen let user create an account
- User can explore motorcycle in home screen



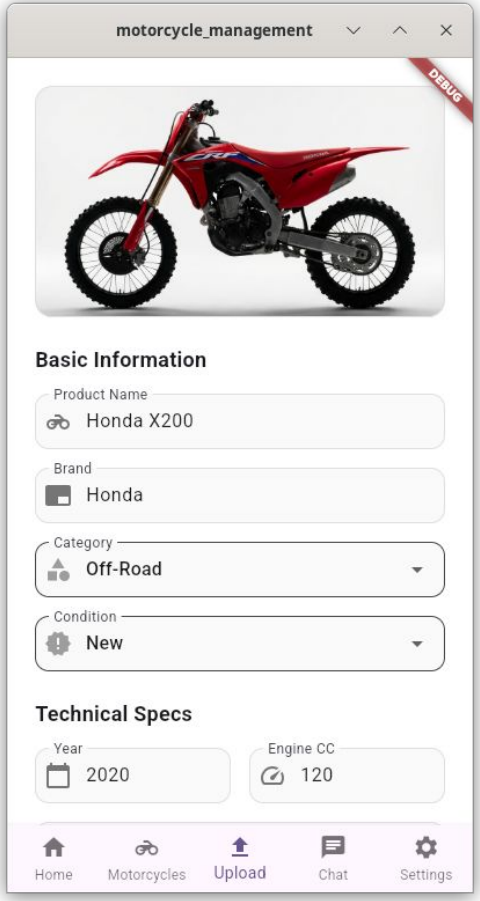


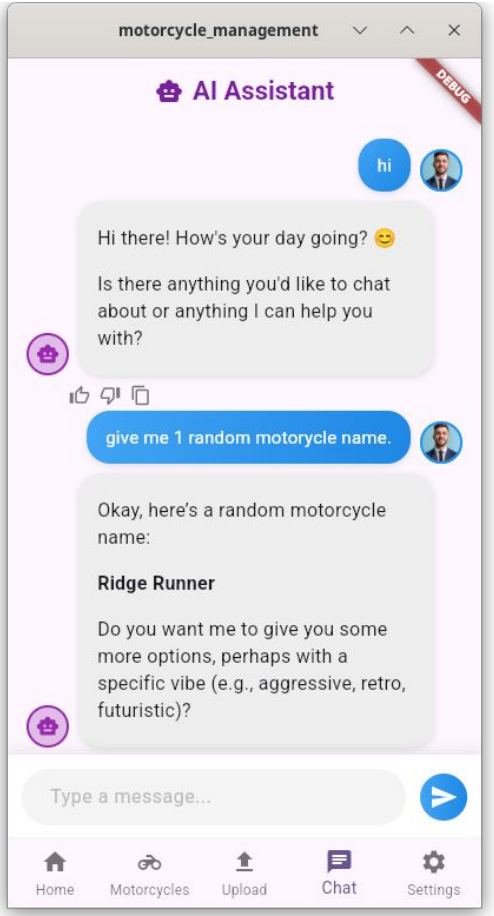
- Motorcycle screen display all motorcycles
- Detail screen give more detail about the motorcycle, and let user buy the motorcycle



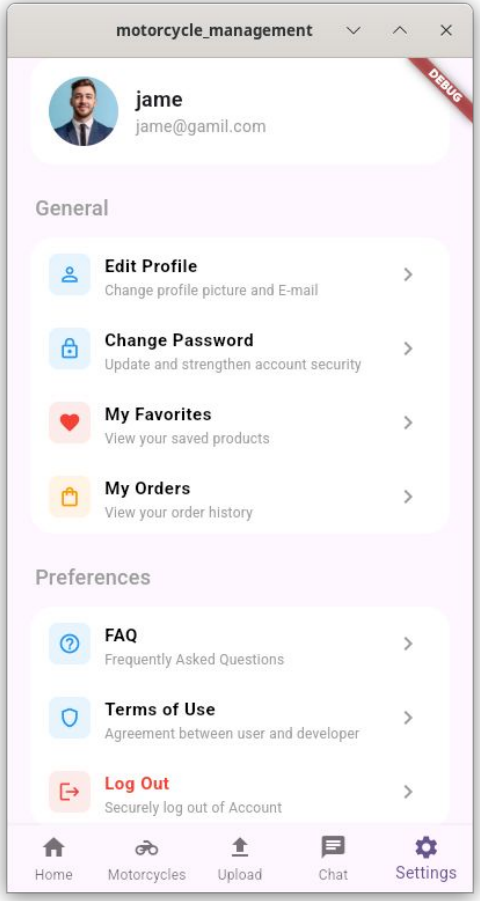


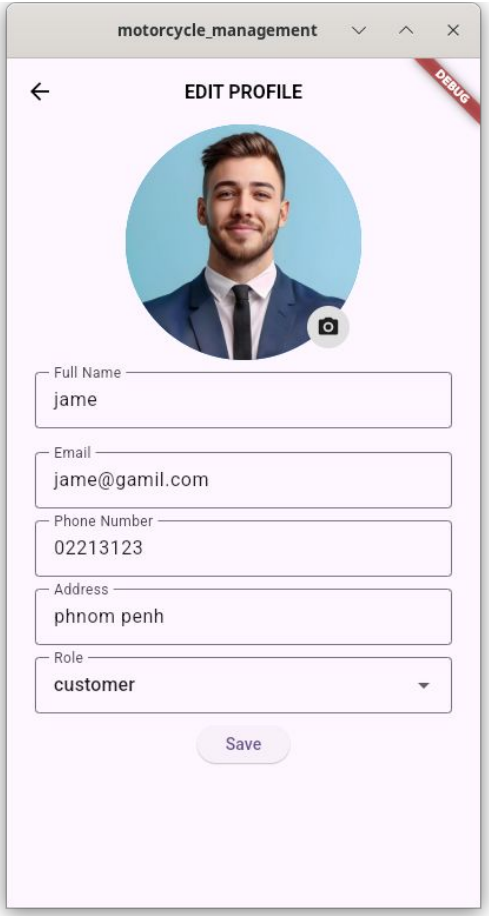
- Upload screen let user upload and sell motorcycles
- Chat screen let user chat with AI assistant



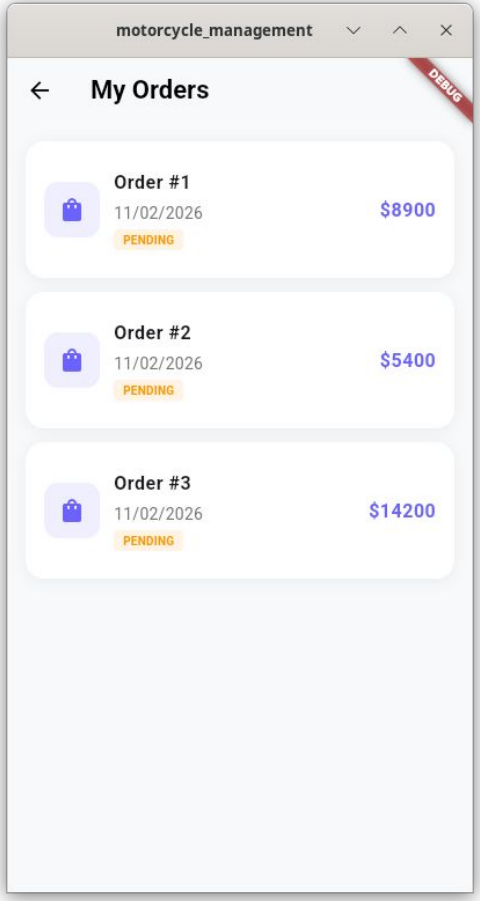


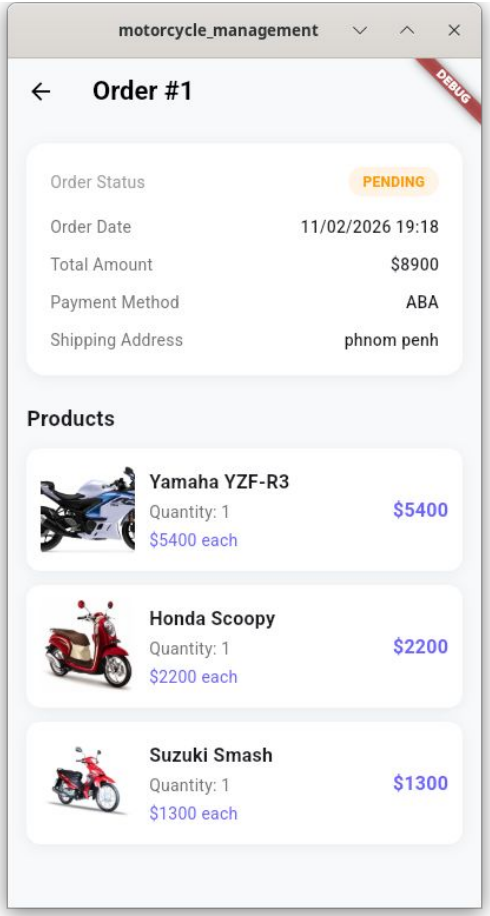
- Setting screen let user view their profile, change password, view favorite, and check order.
- Edit profile let user update their profile



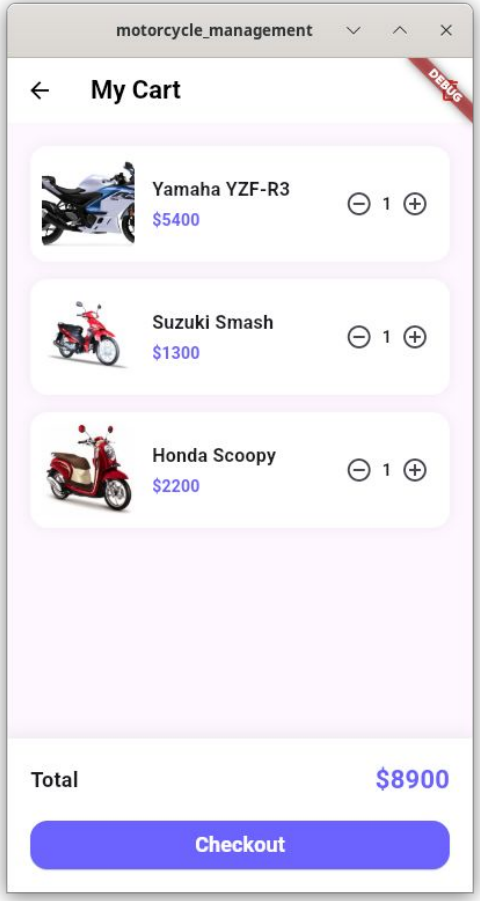


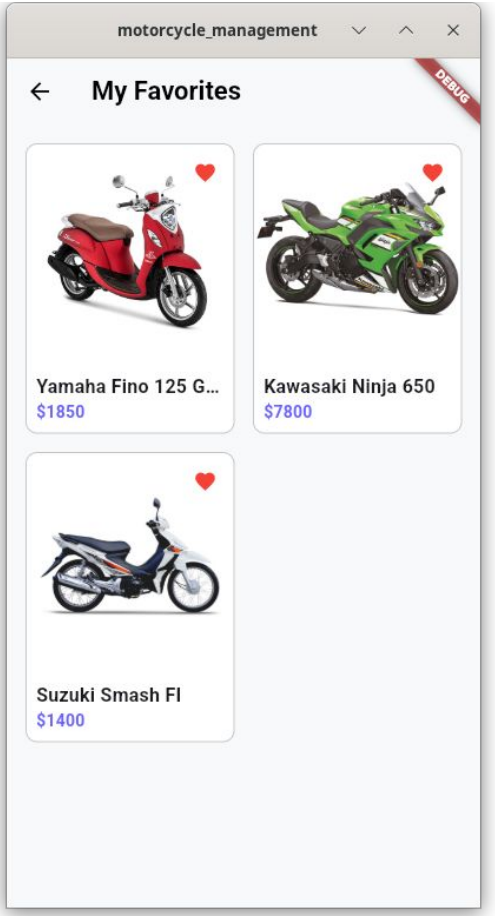
- Order screen let user view their historical order
- Order detail let user view product that they order and total amount





- Cart Screen let user view what motorcycle is for checkout
- Favorite screen list their liked motorcycle





Demo