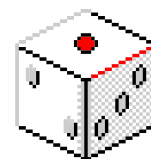


GETHUB: A Ride Booking System Project



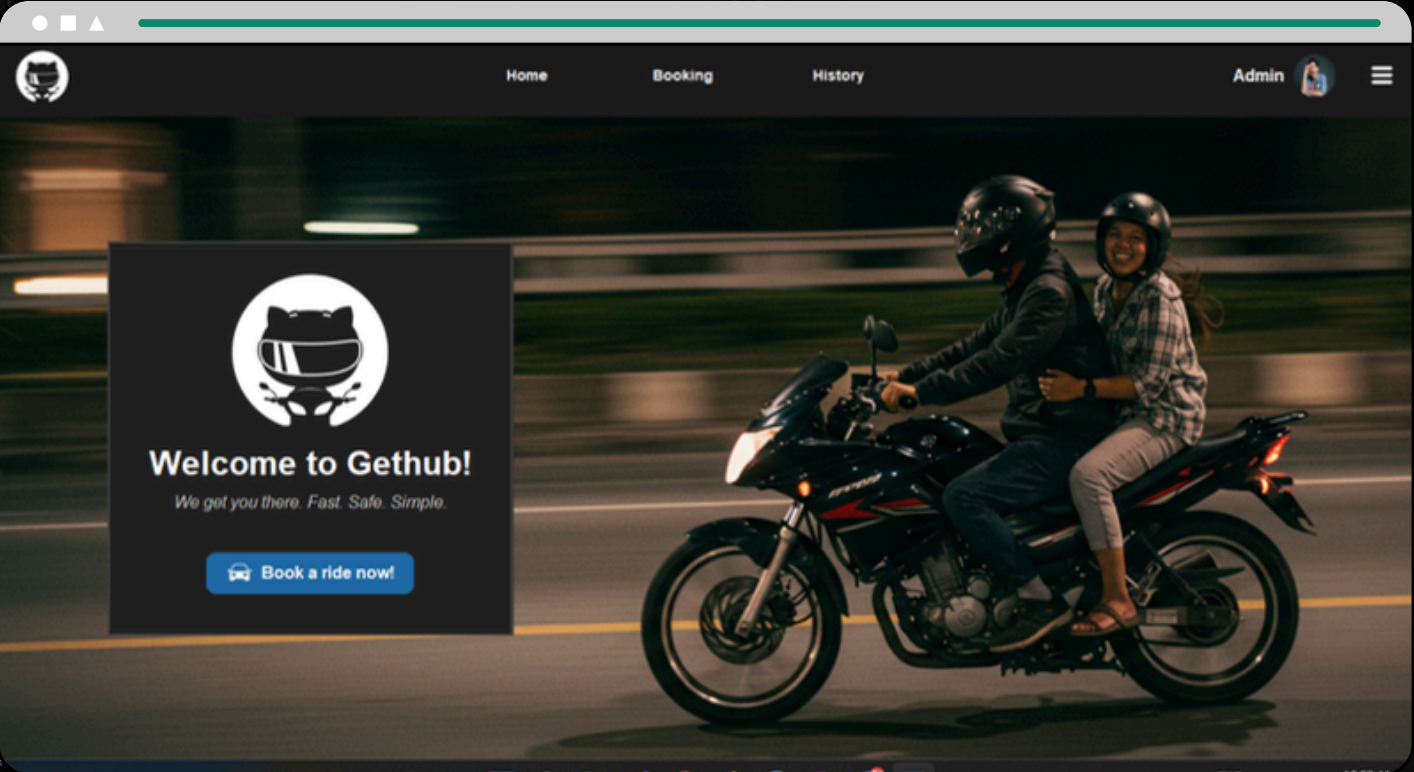
Press Folder to Start



11:11PM

PROJECT OVERVIEW

Gethub — a ride-hailing app designed to provide faster, safer, and more accessible transportation for everyone. This project aims not only to address everyday commuting needs but also to serve as a practical application of all the concepts of Object Oriented Programming. Through Gethub, we intend to demonstrate how OOP concepts can be effectively used to build a simple yet functional ride-booking app.



OBJECTIVES

- To apply object-oriented programming concepts such as classes, inheritance, and polymorphism.
- To learn and implement file handling in Python for saving and retrieving application data.
- To design and develop a graphical user interface using Tkinter.
- To understand and implement basic software engineering principles such as modularity and encapsulation in a practical application.

SOFTWARE TOOLS USED

PROGRAMMING LANGUAGE



Python

LIBRARIES/TOOLS

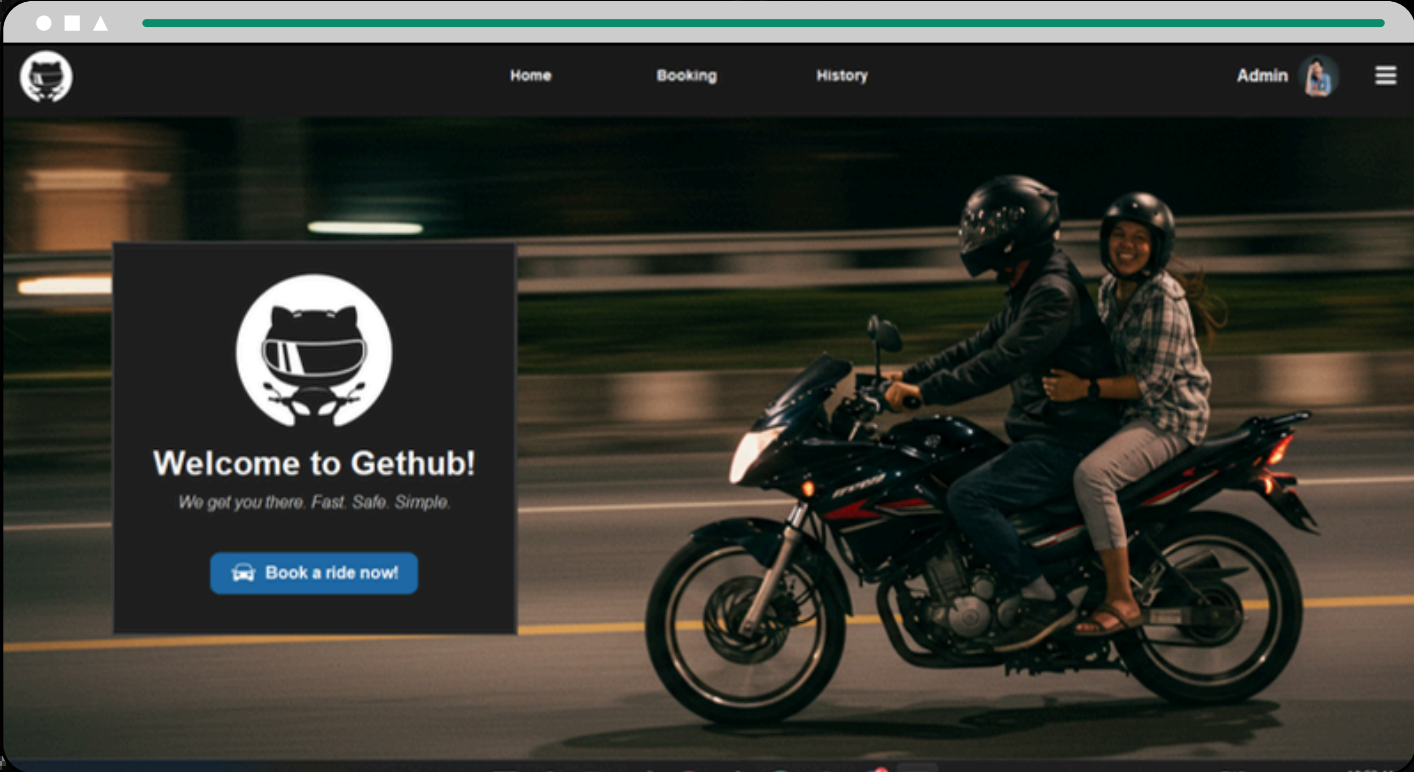


- CustomTkinter
- OpenStreetMap
- GeoPy
- SQLite
- ImageFX

PLATFORMS



- Google Docs
- Figma
- Draw.io
- Git/Github
- Discord



Interactive Map Interface

Drag, zoom, and add markers with our interactive and responsive map.

Distance, Time, and Fare Calculation

Automatic ride details calculation with OSRM.

Route Calculation and Display

Automatic route calculation with OSRM.

Vehicle Types

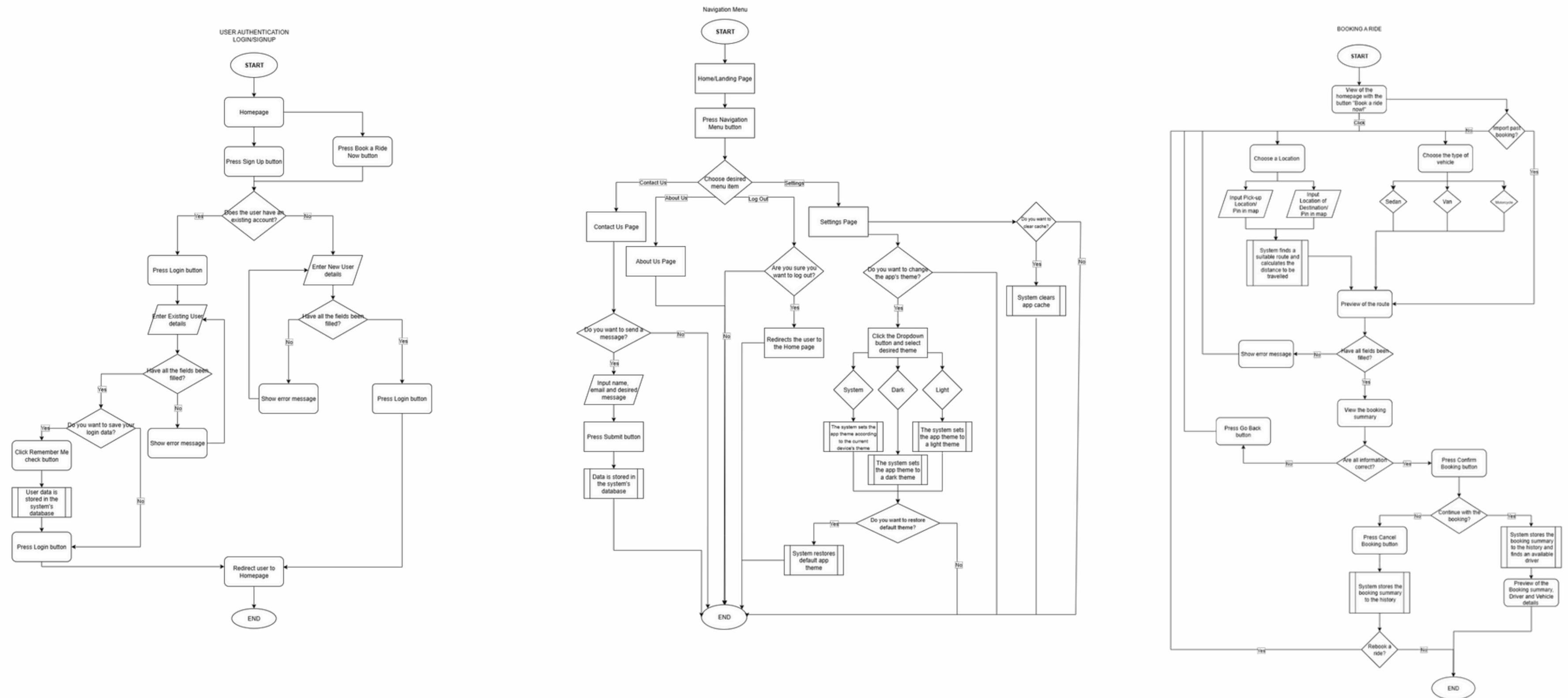
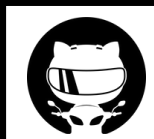
Users can select various vehicle types such as car, van, or motorcycle.

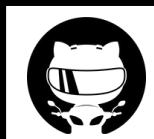
User Accounts

Users can create their accounts which stores account-specific booking database for privacy.

Booking Information Management

SQLite database holds all information of saved bookings to allow for downloads.





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