

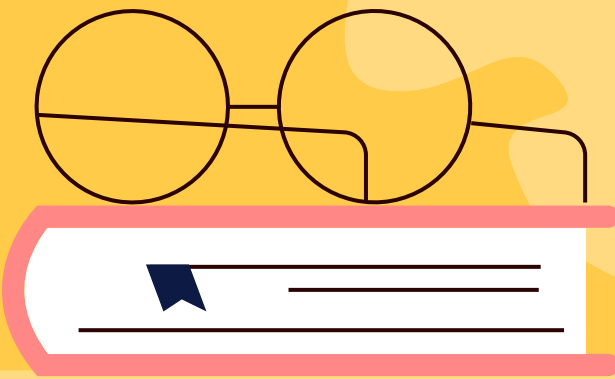
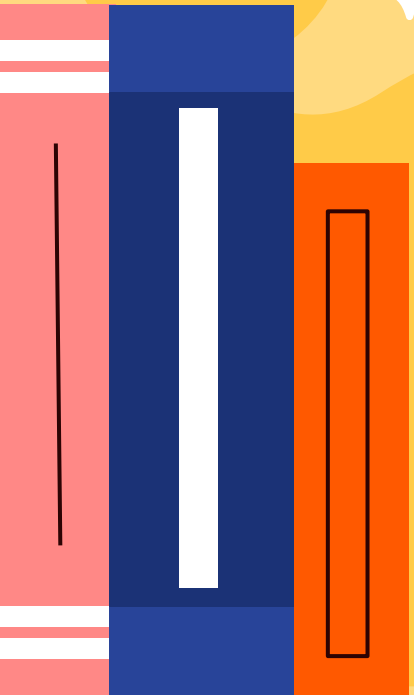
Online Cab Booking System

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Introduction to the System



Purpose and Goals

The online cab booking system aims to simplify the process of booking taxis through a user-friendly digital platform.

Our goals include providing real-time tracking of cabs, ensuring secure payment processes, and offering efficient service to enhance user experience.



Target Audience

The primary target audience includes everyday commuters, occasional travelers, and business professionals. This system caters to anyone seeking convenient transportation solutions, thereby broadening the market reach.



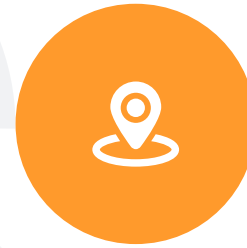
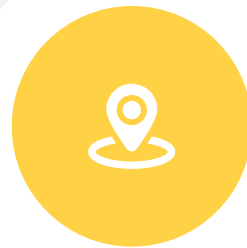
Key Features

Key features include user registration, ride booking, real-time cab tracking, multiple payment options, and user reviews. These elements work cohesively to create a seamless booking process that enhances user satisfaction.

Overall Structure

Backend Services

The backend consists of server-side logic implemented with Node.js, managing user accounts, ride requests, and database interactions. It ensures data integrity and real-time messaging between users and drivers.



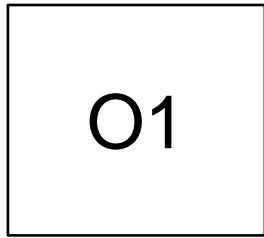
Frontend Components

The frontend is built using HTML, CSS, and JavaScript, ensuring a responsive and engaging user interface. It incorporates components like booking forms, driver information, and user dashboards.

Database Management

A robust database schema supports user profiles, ride history, and payment transactions, typically implemented using SQL or NoSQL databases. This architecture guarantees data retrieval efficiency and scalability.

Technology Stack



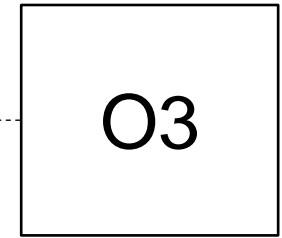
Programming Languages

The project utilizes JavaScript for both the frontend and backend, complemented by languages like Python or Ruby for APIs as needed. This simplification aids in developer efficiency and reduces context-switching.



Frameworks Used

Frameworks like React for the frontend and Express.js for the backend ensure a modular architecture. These technologies promote reusability and speed up the development process through established conventions.



Tools and Libraries

Essential development tools include Git for version control, Docker for containerization, and libraries like Axios for API requests. These tools streamline collaboration and enhance the deployment pipeline.

Customer Role

User Registration

Customers can swiftly create accounts through email or social media logins. Data privacy is prioritized, with secure options in place to protect user information.

01

Booking a Ride

Customers can easily book rides by entering pickup and drop-off locations, selecting vehicle types, and confirming their requests. The system provides instant feedback on estimated costs and wait times.

02

Payment Options

A variety of payment methods are supported, including credit/debit cards, mobile wallets, and cash. This flexibility enables users to choose their preferred payment method.

03

Wireframes and Prototypes



Homepage Layout

The homepage serves as a centralized hub, featuring the ride booking form prominently and easy access to user profiles and help sections. The layout is designed for minimal distractions.



Booking Interface

The booking interface is straightforward, allowing users to quickly input details and confirm rides. Visual elements guide users through the booking process to reduce errors.



Admin Panel Design

The admin panel combines functionality with a clean aesthetic, providing intuitive navigation among various management tools. Prioritizing user efficiency minimizes the training required.