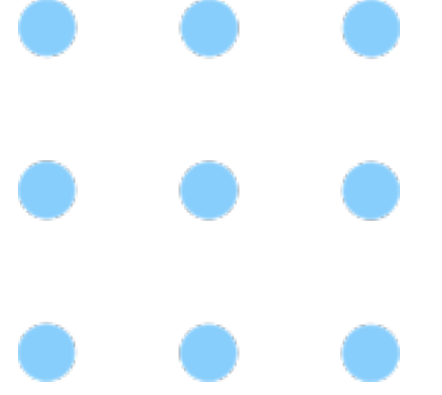




megumi

Hotel Booking Website

INTRODUCTION



Aim

Create a user-friendly hotel booking web application

System Architecture

Presentation Layer, Application Layer, Data Layer

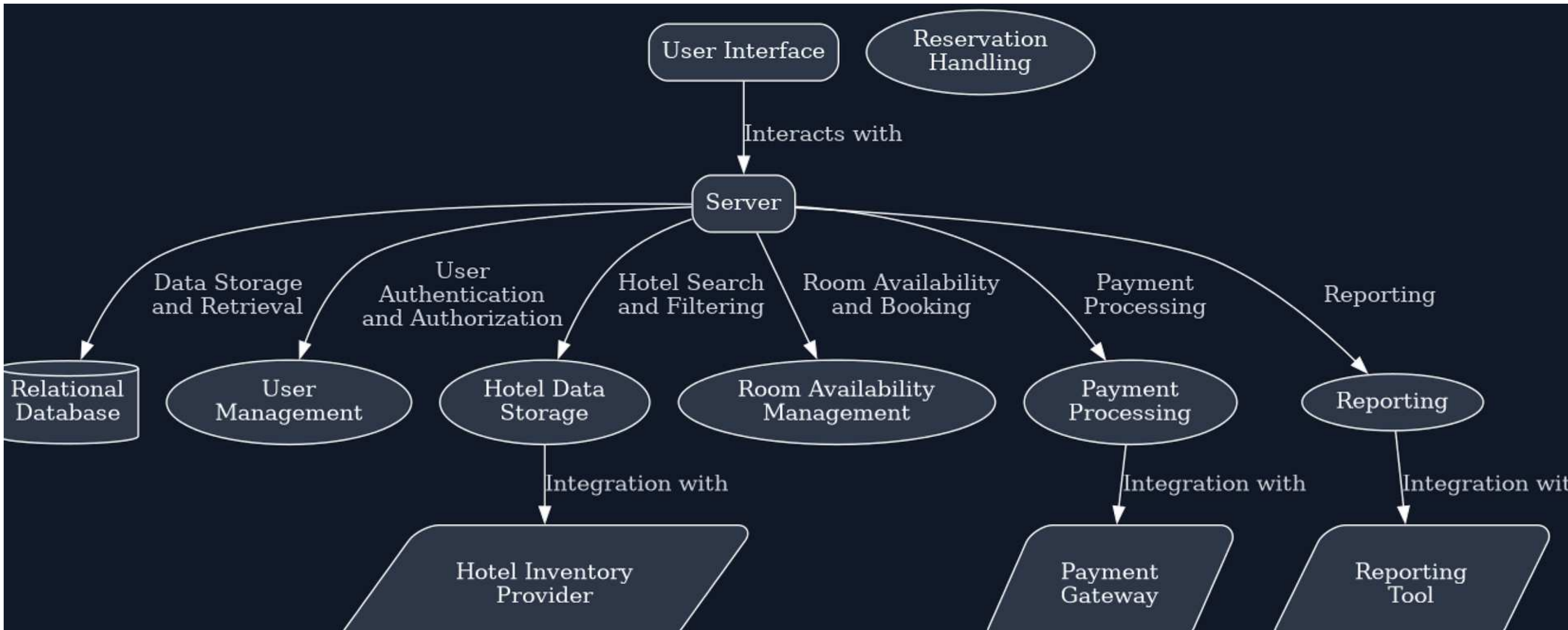
y Modules

*User Management, Hotel Search,
Reservation Management, Payment*

Database Schema

User, Hotel, Room, Booking tables

Architecture



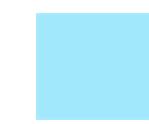


USER MANAGEMENT

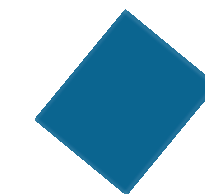


- Allow users to register, log in, and manage their profile information.
- ◆ User registration with email and password.
- ◆ Login authentication for secure access.
- ◆ Profile management to update personal details.

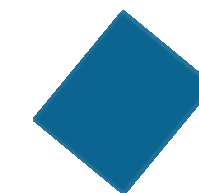
HOTEL SEARCH



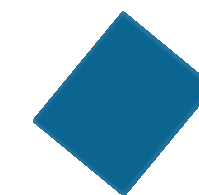
Enable users to search for hotels based on location, dates, and other filters.



Location-based search to find hotels in specific areas.



Date selection for check-in and check-out.



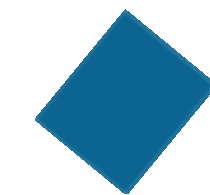
Filter options for person info and price range..



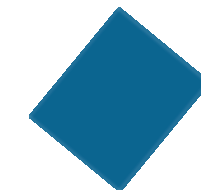
ROOM AVAILABILITY



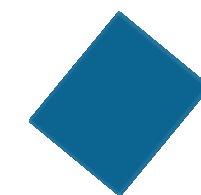
Provide real-time information on room availability and details.



Display available rooms for selected dates



Room type, pricing and other information

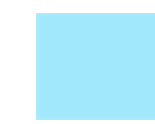


Instant updates on room availability

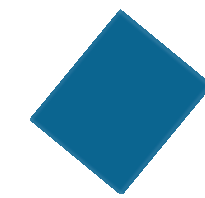




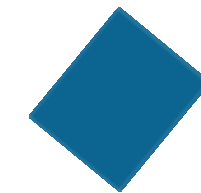
BOOKING MANAGEMENT



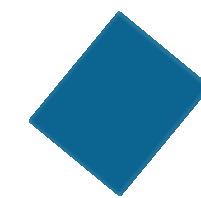
Allow users to make modify and cancel reservations.



Booking confirmation with reservation details



Ability to modify reservation dates and room types



Cancellation process with appropriate notifications

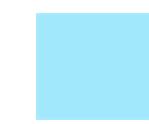


PAYMENT PROCESSING

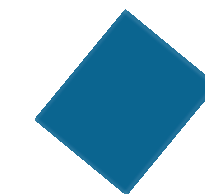


- Ensure secure and seamless payment transactions.
- ◆ Integration with popular payment gateways.
- ◆ Secure handling of credit card information.
- ◆ Payment confirmation and receipt generation.

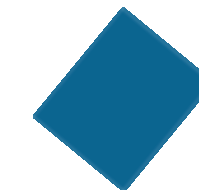
ADMIN PANEL



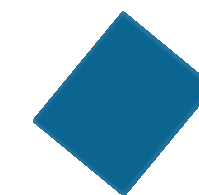
Provide an interface for administrators to manage the system.



Hotel and room management.



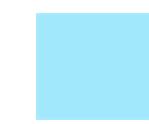
User account management.



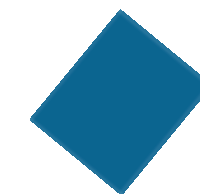
System configuration settings and log management.



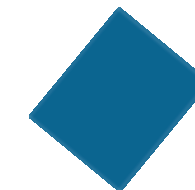
EXCEPTIONAL SCENARIOS



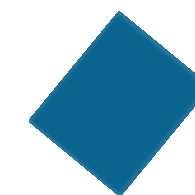
Address exceptional scenarios to enhance user experience.



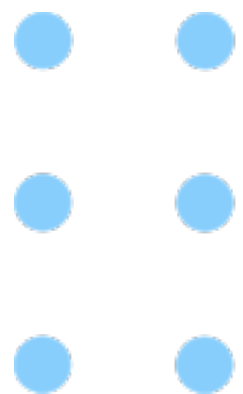
Invalid user input handling.



Robust error handling for system errors.



Payment transaction failures



Test Cases

Payment and error testing.

Reservation management testing.

Room selection and booking testing.

Hotel search and filtering testing.

User registration and login testing.





Deployment

used render to deploy the project

Front-end: HTML, CSS, JavaScript, React framework.

Back-end: Node.js, JavaScript.

Database: MongoDB for data storage.



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Conclusion

Achievements: User-friendly interface, efficient functionalities, secure payment processing.

FUTURE ENHANCEMENTS

Scalability, additional features, improved user experience.

