MINI PROJECT

Group 7 - S6 A.D

HOUSEBOAT DIGITAL MANAGER

Project Guide:

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Group Members:
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Rethin Krishna T R
Ronakk Jaiin
Sreyas

INTRODUCTION

The houseboat tourism industry in Kerala is a captivating and sought-after experience for travelers, offering serene journeys through picturesque backwaters. However, despite its popularity, the industry faces significant gaps that hinder its full potential. This mini project aims to address these gaps by focusing on two key areas: the absence of a centralized booking system and the lack of proper safety protocols with certification system.

Problem Statement

The problem is compounded by the absence of a comprehensive platform that connects various houseboat operators, making it challenging for tourists to find and book suitable houseboats.

APPLICATIONS

Streamlined Booking Process: The houseboat booking system provides tourists with a convenient and efficient way to book houseboats in Kerala. By offering a user-friendly interface and real-time availability information, tourists can easily browse through various houseboat options, compare prices, and make reservations according to their preferences.

Improved Resource Management: The booking system allows houseboat operators to effectively manage their resources. By having a centralized platform, operators can efficiently manage their boat availability, track bookings, and optimize their scheduling.

Quality Certification: The booking system can integrate a certification process wherein houseboats undergo a thorough evaluation to meet specific quality standards. This evaluation can include criteria such as boat condition, cleanliness, safety equipment, trained staff, and compliance with environmental regulations. Houseboats that meet these standards will receive a quality certification or rating.

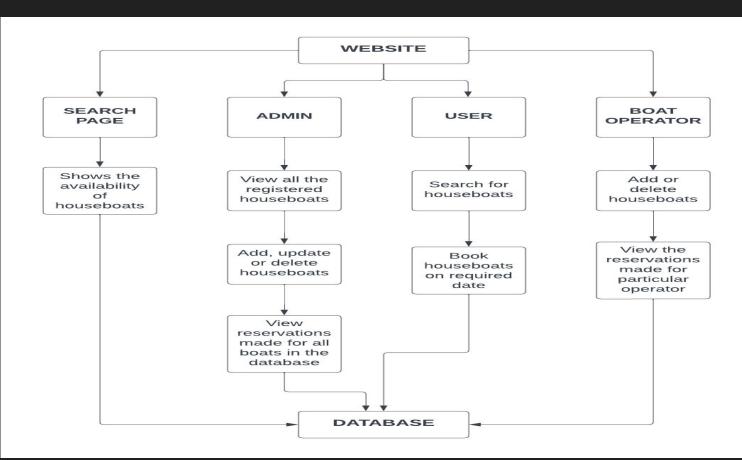
Existing Works

- www.keralatourism.org
- www.keralabackwater.com
- <u>www.paradise-kerala.com</u>
- www.keralahouseboatclub.com

Challenges In Developing HDM

- Data Integration: One of the challenges is gathering accurate and up-to-date information from various houseboat operators and consolidating it into a centralized database.
- Real-time Updates: Providing real-time availability and pricing information requires
 continuous synchronization between the booking system and the houseboat
 operators' inventory management systems. Ensuring the timely and accurate
 updating of availability status and pricing can be challenging, especially when
 dealing with multiple operators and fluctuating demand.
- **User Adoption:** Encouraging users to adopt and utilize the booking system requires effective marketing and user education. Overcoming user resistance to change and promoting the benefits and convenience of using the platform can be a challenge, particularly in regions where traditional booking methods are prevalent.

BLOCK DIAGRAM



Modules Used

<u>Admin</u>

- View all the houseboats registered
- Add, Update and Delete houseboats
- View all reservations made

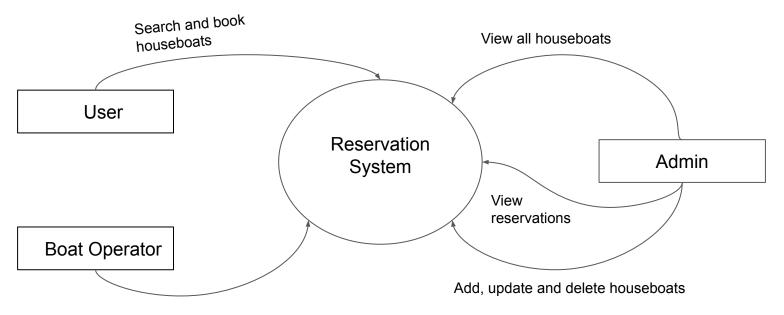
<u>User</u>

- Search for houseboats with provided data
- Book houseboat accordingly

Boat Operator

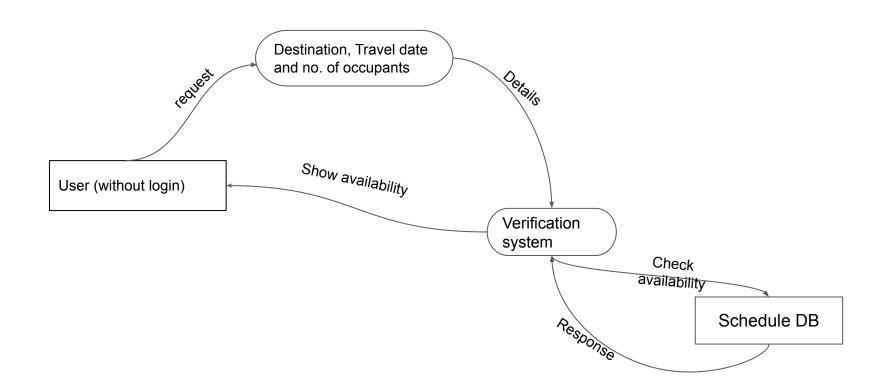
- Add and Delete houseboat
- View reservations of their boats

DATA FLOW DIAGRAM (DFD)

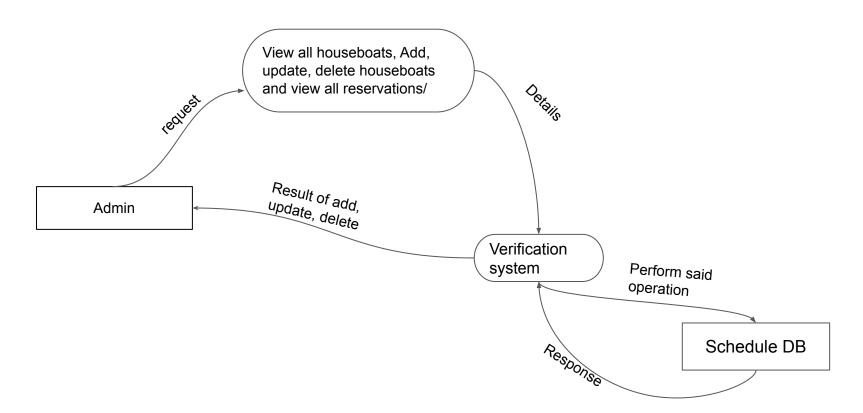


Add and delete houseboats, View the reservations of their boats

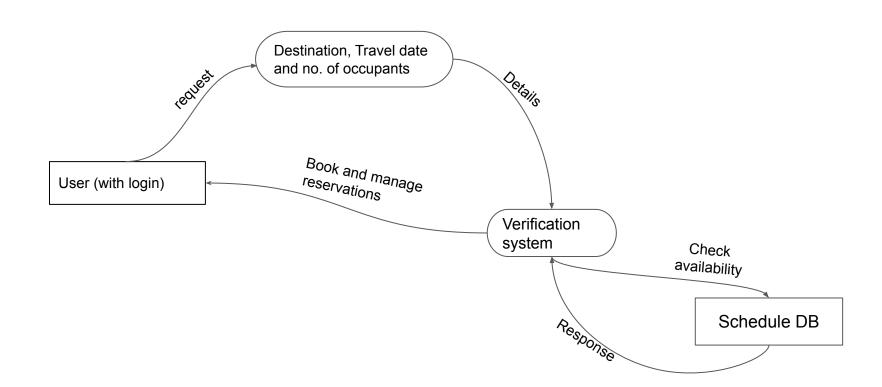
LEVEL 1.1



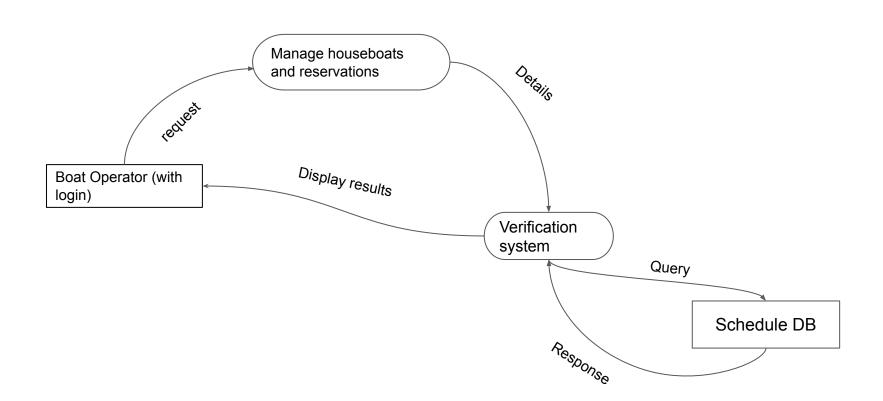
LEVEL 2.1



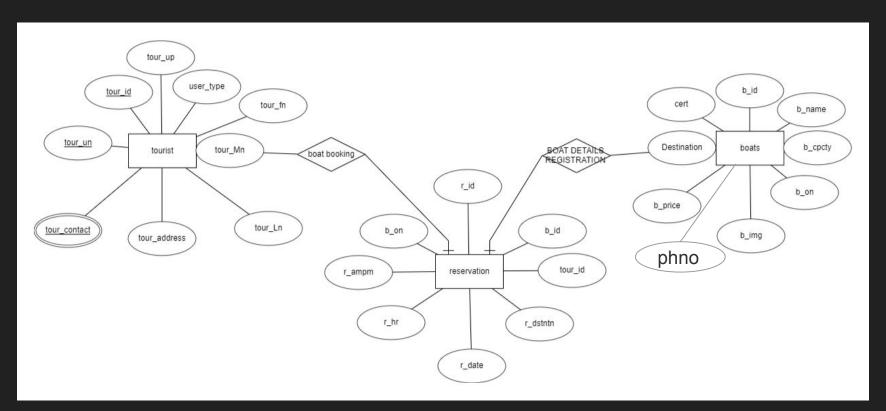
LEVEL 2.2



LEVEL 2.3



ER DIAGRAM

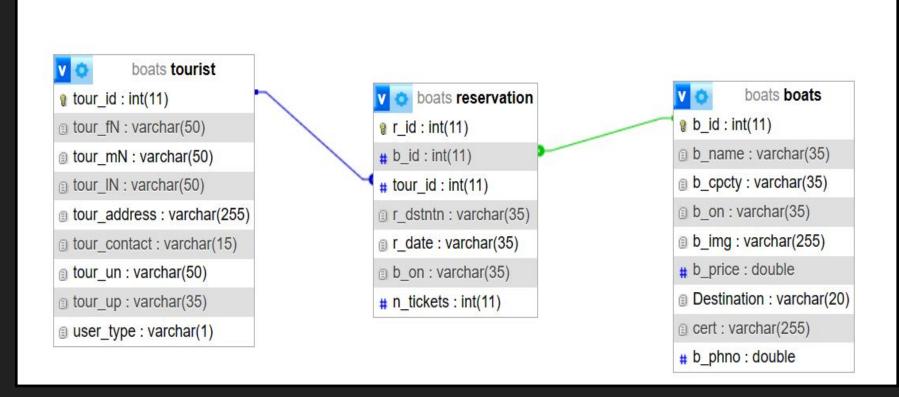


Implementation Details

- Html, Java, CSS Website
- MariaDB

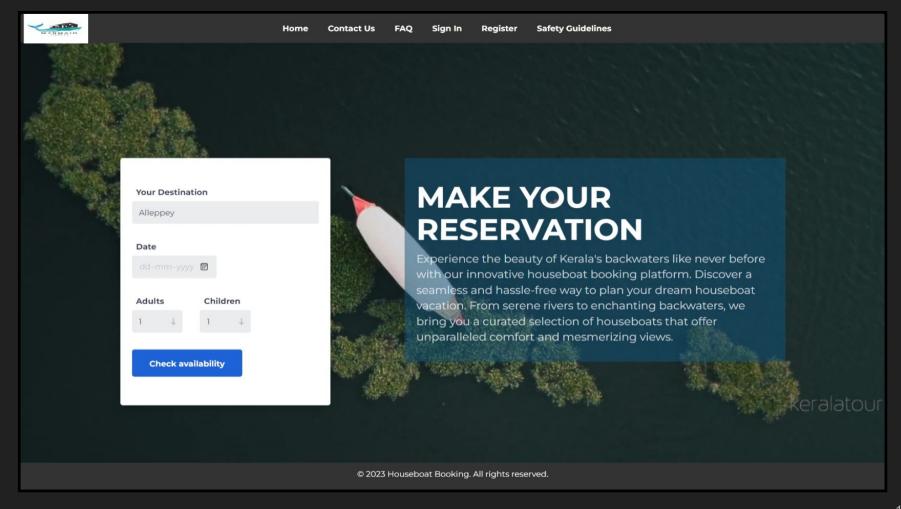
 Database
- PHP Back end programming

Database Design



FUNCTIONALITIES

- → Functionalities available :
- → Login for Admin
- → Admin can
 - View all the houseboats registered
 - ◆ Add, Update and Delete houseboats
 - View all reservations made
- → Users can
 - Search for houseboats with provided data
 - Book houseboat accordingly
- → Boat Operator can
 - ♦ Add and Delete houseboat
 - View reservations of their boats





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Get in Touch with Us

We value your feedback and inquiries. Our dedicated team is here to assist you with any questions or concerns you may have. Whether you want to inquire about our services, provide feedback on your experience, or seek assistance with a specific issue, we encourage you to reach out to us.

Email:		
Message:		
	Submit	

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Safety Guidelines

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Safety Measures for Passengers

Life Jackets

Ensure that there are enough life jackets on board for every passenger, and make sure everyone wears them while on deck or when near the water. Life jackets should be properly fitted and in good condition.

Safety Briefing

Before departing, the captain or crew should provide a safety briefing, explaining the location of safety equipment, emergency procedures, and potential hazards to be aware of while on the houseboat.

No Overcrowding

Follow the capacity guidelines of the houseboat and avoid overcrowding. Overloading can cause stability issues and increase the risk of accidents.

Children and Non-Swimmers

Extra care should be taken with children and non-swimmers. They should wear life jackets at all times and be supervised by adults when near the water.

Avoid Alcohol

Avoid excessive alcohol consumption while on the houseboat. Alcohol impairs judgment and reaction times, increasing the risk of accidents.

Watch Your Step

Be cautious when moving around the boat, especially on wet surfaces. Houseboat decks can become slippery, so walk carefully and hold on to handrails when available.

Fire Safety

Follow all fire safety protocols on board. Avoid open flames in enclosed spaces and do not smoke inside the boat.

Emergency Contacts

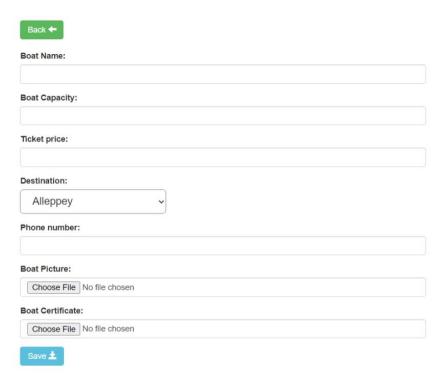
Carry a list of emergency contacts and radio frequencies to communicate with local authorities or rescue services if needed.

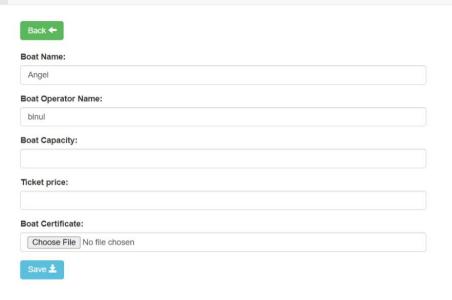
First Aid Kit

Have a well-stocked first aid kit on board and know how to use its contents in case of minor injuries.

By following these safety measures, passengers can enjoy a safe and enjoyable houseboat experience. Always remember that safety should be a top priority, and being prepared for potential emergencies is essential for everyone on board.

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List of Boats Available



EZHIMALA BACKWATER CRUISE

Capacity: 30

Price: 1500

Operator Name: Dineshan. T

Destination: Kasargod

Book Now



Janaki

Capacity: 35

Price: 2000

Operator Name: Sreekumar.N

Destination: Kasargod

Book Now



SNEHATHEERAM

Capacity: 40

Price: 1700

Operator Name: Pavithran. P.P.

Destination: Kasargod

Book Nov

Home My Reservation



Angel

Capacity: 30

Price: 1200

Operator Name: binul Destination: Alleppey

Phone Number: 7736959675

Number of Tickets Available: 29

Number of Tickets:





Aqua Jumbo

Capacity: 20

Price: 4000

Operator Name: Josekutty Joseph

Destination: Kollam

Phone Number: 8848360244

Number of Tickets Available: 20

Number of Tickets:





Boat Reservation

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40

Boats Reservation

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Date:

2023-07-27

Tickets Booked:

29

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philip sabu R	2378939823	wgdhgd		Angel	binul	Alleppey	2023-07-26	1200
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Phase - 1

<u>Activities</u>	People Assigned	Start Date	End Date	<u>Progress</u>
Project research	All members of the group	Apr 28,2023	May 05,2023	100%
Project discussion with experts	All members of the group	May 05,2023	May 08,2023	100%
Project abstract preparation and submission	All members of the group	May 08,2023	May 12,2023	100%
Web framework selection	All members of the group	May 12, 2023	May 15,2023	100%

Phase - 2

Activities	People Assigned	Start Date	End Date	<u>Progress</u>
Front Page and logo	Sreyas,Rethin	Jun 3,2023	June 15,2023	100%
FAQ page	Rethin	Jun 4,2023	June 11,2023	100%
Contact us page	Betteena	Jun 4,2023	June 20,2023	100%
Oontact us page	Dettecha			
Sign in and register page	Sreyas,Ronakk	May 25, 2023	June 15,2023	100%

Phase - 3

<u>Activities</u>	People Assigned	Start Date	End Date	<u>Progress</u>
Database	Betteena	June 28,2023	July 25,2023	100%
Admin page	Sreyas	June 25,2023	July 25,2023	
User booking				100%
page	Sreyas	June 25,2023	July 25,2023	100%
Boat operator	Ronakk	June 15, 2023	July 25,2023	100%
page				

RESULTS AND DISCUSSION

- Centralized Booking System: The developed website successfully provides a centralized platform
 for booking houseboats. Users can access real-time information about availability, rates, and ratings
 of various houseboats, allowing them to make informed decisions and conveniently book their
 desired experiences. The system effectively connects multiple houseboat operators, streamlining
 the booking process for tourists.
- Safety Protocols and Certification: The implemented safety protocols, including safety briefings and guidelines for passengers, contribute to enhancing the overall safety standards in the houseboat tourism industry. Passengers receive essential safety instructions and guidelines for a secure and enjoyable journey. Moreover, the certification system incentivizes operators to maintain and improve their services, resulting in an elevation of safety measures and overall standards.

The results and outcomes achieved through this mini project contribute to bridging the existing gaps in the houseboat tourism industry in Kerala. The developed solutions provide a comprehensive platform for booking, prioritize safety protocols, and enhance the overall tourist experience.

The project's success showcases the value of leveraging technology and student initiatives in improving and innovating the tourism sector, benefiting both tourists and the houseboat industry as a whole.

LIMITATIONS

- Data Accuracy and Reliability: The accuracy and reliability of the information provided by houseboat operators, such as availability, rates, and ratings, may vary. Ensuring the accuracy of data displayed on the booking system requires proper validation and verification mechanisms.
- Infrastructure Limitations: The availability and reliability of internet connectivity and mobile network coverage in the remote areas where houseboat tourism operates may pose challenges. Ensuring seamless online booking and real-time information updates may be limited by infrastructure constraints.
- Continuous Maintenance and Support: The project requires ongoing maintenance, updates, and technical support to address any issues, enhance system performance, and adapt to changing user needs. Allocating resources for long-term maintenance is crucial for sustained success.

REFERENCES

- W3Schoolscool
- Codeacademy
- Mysql.com
- Mytrip
- Crusekerala.in
- kasargod.nic.in

THANK YOU