Incredible India
INDIAN TOURISM WEBSITE

System Requirement Specification

(SRS)

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SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR, PUNJAB, INDIA.

Index

4. Screenshot of code and working pages

5.GITHUB LINK

Introduction

Title: Indian Tourism

The Indian Tourism Website is a comprehensive online platform designed to promote and facilitate tourism activities across various regions of India. Leveraging modern web technologies, including HTML, CSS, JavaScript, Bootstrap for frontend development, and MongoDB for backend database management, this website aims to offer an immersive and user-friendly experience for both domestic and international tourists.

Purpose

The primary objective of the Indian Tourism Website is to showcase the diverse cultural heritage, natural beauty, historical landmarks, and other attractions that India has to offer. By providing a centralized platform for accessing information about tourist destinations, accommodations, transportation, and activities, the website aims to encourage tourism and contribute to the growth of the Indian travel industry.

Scope

The scope of the Indian Tourism Website encompasses the following key features and functionalities:

1. Destination Listings: Displaying detailed information about various tourist destinations in India, including descriptions, images, ratings, and reviews.

2. User Registration and Authentication: Allowing users to create accounts, log in securely, and manage their profiles to personalize their browsing experience.

3. Booking Services: Facilitating the booking of accommodations, tours, transportation, and other travel-related services through integration with third-party providers.

4. Interactive Maps: Integrating interactive maps to help users visualize the locations of tourist attractions, accommodations, and other points of interest.

5. Travel Guides and Tips: Providing informative articles, travel guides, tips, and recommendations to help users plan their trips effectively.

6. Social Features: Enabling social interaction among users by allowing them to share their travel experiences, tips, and recommendations through social media integration.

7. Admin Dashboard: Offering administrators a dedicated dashboard to manage content, user accounts, bookings, and other website functionalities.

Audience

The primary audience for the Indian Tourism Website includes:

- Tourists: Individuals seeking information and resources to plan their trips to India, explore its rich cultural heritage, and discover its tourist attractions.

- Travel Agencies: Businesses involved in organizing and facilitating tours, accommodations, and transportation services for tourists visiting India.

- Administrators: Website administrators responsible for managing content, user accounts, bookings, and other administrative tasks.

Document Structure

This Software Requirements Specification (SRS) document is organized into several sections, each addressing specific aspects of the Indian Tourism Website project. These sections include:

1. Introduction: Provides an overview of the project, its purpose, scope, audience, and document structure.

2. Functional Requirements: Describes the functional requirements of the website, including user interactions, system functionalities, and third-party integrations.

3. Non-Functional Requirements: Specifies the non-functional requirements related to performance, security, usability, and scalability.

4. System Architecture: Presents the architectural design of the website, including frontend components, backend systems, databases, and APIs.

5. Data Model: Defines the data model and schema design for storing information about destinations, users, bookings, and other entities.

6. User Interface Design: Illustrates the user interface design, including wireframes, mockups, and design guidelines.

7. Testing and Quality Assurance: Outlines the testing strategy, including test cases, test scenarios, and quality assurance processes.

8. Deployment and Maintenance: Discusses the deployment plan, maintenance procedures, and ongoing support for the website.

2. General Description

The Indian Tourism Website serves as a comprehensive online platform aimed at promoting and facilitating tourism activities across various regions of India. Leveraging modern web technologies, the website provides users with an immersive and user-friendly experience, offering information about tourist destinations, accommodations, transportation, activities, and more.

2.1 Product Perspective

The Indian Tourism Website operates as a standalone system, interacting with users through a web interface. While it primarily serves as an informational platform for tourists, it also integrates with external systems for booking services, such as accommodations, tours, and transportation. The website relies on MongoDB as its backend database to store and manage user data, destination information, bookings, and other relevant data.

2.2 Product Functions

Key Functions of the Indian Tourism Website include:

Destination Listings: Presenting detailed information about various tourist destinations in India, including descriptions, images, ratings, and reviews.

User Registration and Authentication: Allowing users to create accounts, log in securely, and manage their profiles to personalize their browsing experience.

Booking Services Integration: Facilitating the booking of accommodations, tours, transportation, and other travel-related services through integration with third-party providers.

Interactive Maps: Integrating interactive maps to help users visualize the locations of tourist attractions, accommodations, and other points of interest.

Travel Guides and Tips: Providing informative articles, travel guides, tips, and recommendations to help users plan their trips effectively.

Social Features: Enabling social interaction among users by allowing them to share their travel experiences, tips, and recommendations through social media integration.

Admin Dashboard: Offering administrators a dedicated dashboard to manage content, user accounts, bookings, and other website functionalities.

2.3 User Characteristics

The Indian Tourism Website caters to a diverse range of users, including:

Tourists: Individuals interested in exploring the cultural heritage, natural beauty, and historical landmarks of India.

Travel Enthusiasts: Users passionate about travel who seek comprehensive information and resources to plan their trips effectively.

Administrators: Website administrators responsible for managing content, user accounts, bookings, and other administrative tasks.

2.4 General Constraints

The development and operation of the Indian Tourism Website are subject to the following constraints:

Technological Constraints: The website must be compatible with a wide range of web browsers and devices to ensure accessibility for all users.

Data Privacy and Security: Strict measures must be implemented to safeguard user data and ensure compliance with data protection regulations.

Performance: The website should maintain optimal performance levels, even during periods of high traffic and user activity.

2.5 Assumptions and Dependencies

The Indian Tourism Website operates under the following assumptions and dependencies:

Third-Party Integrations: The successful integration of booking services relies on the availability and reliability of third-party APIs and services.

Internet Connectivity: Users must have access to a stable internet connection to interact with the website and access its features.

User Engagement: The effectiveness of social features depends on user engagement and participation in sharing travel experiences and recommendations.

3. Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

The user interface of the Indian Tourism Website shall be designed to be intuitive, visually appealing, and responsive, providing users with seamless navigation and interaction. Key user interface elements include:

Homepage: Featuring a visually engaging layout showcasing popular destinations, travel guides, and promotions.

Destination Pages: Providing detailed information about tourist destinations, including descriptions, images, maps, and booking options.

User Registration and Login Forms: Allowing users to create accounts, log in securely, and manage their profiles.

Booking Forms: Facilitating the booking of accommodations, tours, transportation, and other travel-related services.

Admin Dashboard: Offering administrators a user-friendly interface to manage content, user accounts, bookings, and other website functionalities.

3.1.2 Hardware Interfaces

The Indian Tourism Website is designed to be accessed through standard hardware devices, including desktop computers, laptops, tablets, and smartphones. It does not require any specific hardware interfaces beyond those commonly available on these devices.

3.1.3 Software Interfaces

The website interacts with the following software components:

Web Browsers: Compatible with popular web browsers such as Google Chrome, Mozilla Firefox, Safari, and Microsoft Edge.

Backend Server: Utilizes Node.js for server-side scripting and MongoDB as the backend database management system.

Third-Party APIs: Integrates with external APIs for booking services, including accommodations, tours, and transportation.

3.1.4 Communications Interfaces

The website utilizes standard communication protocols, including HTTP and HTTPS, for transmitting data between the client and server. Secure socket layer (SSL) encryption is employed to ensure the confidentiality and integrity of data transmitted over the network.

3.2 Functional Requirements

3.2.1 Destination Listings

The website shall display a list of tourist destinations in India, including descriptions, images, ratings, and reviews.

Users shall be able to search for destinations by keywords, location, or category.

Each destination listing shall include booking options for accommodations, tours, and transportation services.

3.2.2 User Registration and Authentication

Users shall be able to create accounts by providing basic information such as name, email, and password.

Registered users shall be able to log in securely using their credentials.

The website shall implement authentication mechanisms to protect user accounts and prevent unauthorized access.

3.5 Non-Functional Requirements

3.5.1 Performance

The website shall maintain fast response times, with pages loading within three seconds under normal conditions.

The server shall be capable of handling concurrent user requests without significant performance degradation.

3.5.2 Reliability

The website shall be designed to minimize downtime and ensure continuous availability to users.

Measures shall be implemented to detect and recover from system failures or errors gracefully.

3.5.3 Availability

The website shall be accessible 24/7, with a target uptime of 99.9%.

Scheduled maintenance activities shall be communicated to users in advance, and downtime shall be minimized during maintenance windows.

3.5.4 Security

The website shall implement robust security measures to protect user data and prevent unauthorized access.

User authentication shall be performed securely using encryption and hashing techniques to safeguard user credentials.

3.5.5 Maintainability

The website shall be built using modular and well-documented code to facilitate future maintenance and updates.

Regular code reviews and version control practices shall be adopted to ensure code quality and consistency.

3.5.6 Portability

The website shall be compatible with various web browsers and devices, including desktop computers, laptops, tablets, and smartphones.

Responsive design principles shall be applied to ensure optimal user experience across different screen sizes and resolutions.

4. Screenshots and Features
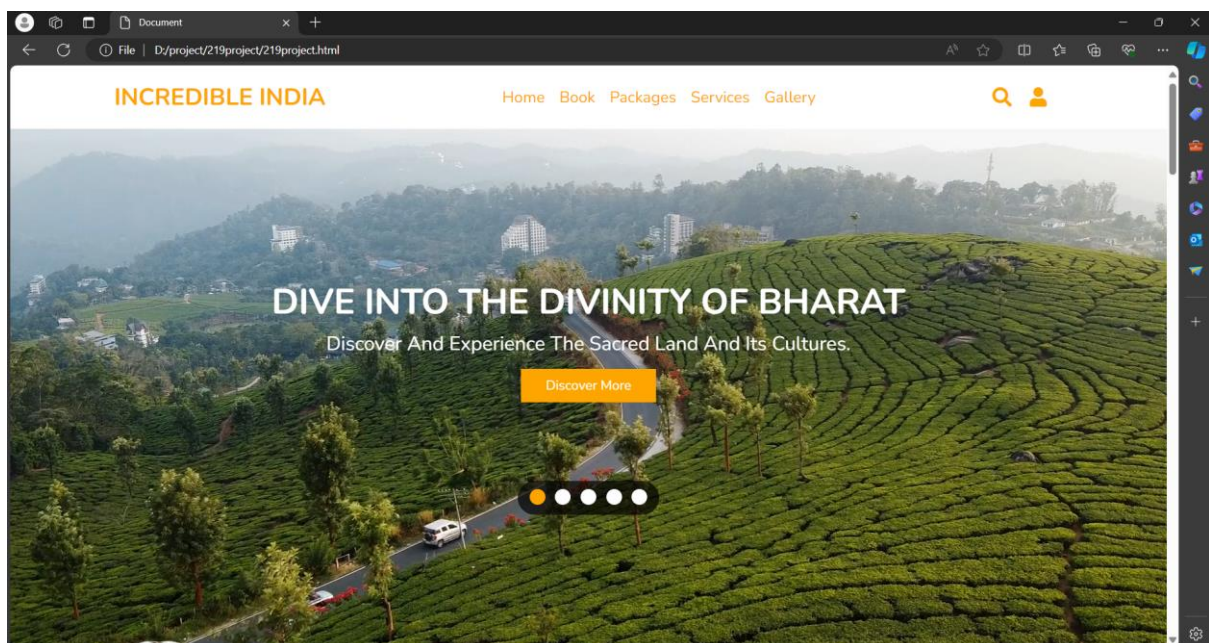
V I S I T   O U R   H E R I T A G E

Monument

enter the monument you want to visit

How Many

number of guests

Arrivals

dd-mm-yyyy 📅

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Food And Drinks

Jxnj Jnjcu Jcjudnsucnsduc Jcudsnchsbchsbhs Ncusdnjsn Ncsncsjsndscs Dsbb Cshb S Nj Nj D Ddcdscsdcds

Safety

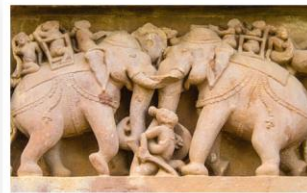Jxnj Jnjcu Jcjudnsucnsduc Jcudsnchsbchsbhs Ncusdnjsn Ncsncsjsndscs Dsbb Cshb S Nj Nj D Ddcdscsdcds

Around The World

Jxnj Jnjcu Jcjudnsucnsduc Jcudsnchsbchsbhs Ncusdnjsn Ncsncsjsndscs Dsbb Cshb S Nj Nj D Ddcdscsdcds

Affordable Hotels

Jxnj Jnjcu Jcjudnsucnsduc Jcudsnchsbchsbhs Ncusdnjsn Ncsncsjsndscs Dsbb Cshb S Nj Nj D Ddcdscsdcds

Adventures

Jxnj Jnjcu Jcjudnsucnsduc Jcudsnchsbchsbhs Ncusdnjsn Ncsncsjsndscs Dsbb Cshb S Nj Nj D Ddcdscsdcds

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G A L L E R Y

Gandikota Canyon

The Beauty Of Gandikota Canyon Is Compared With That Of Grand Canyon And Hence, They Call It The Grand Canyon Of India.

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India Has A Myriad Of Landscapes, Great Heritage And Culture, Varied Flora And Fauna. The Country Is The Most Preferred Tourist Destinations For Tourists From All Across The World For Its Picturesque Landscapes, Spectacular Waterfalls, Habitat Of The Country's Largest Tiger Reserve And Home To The Warmest People On Earth.

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Features:

User-interactive pages

Here the user enter the details like email and password that will be stored through MongoDB.

Here user when clicks for login, him/her asked to enter the email and password that is being stored at backend.
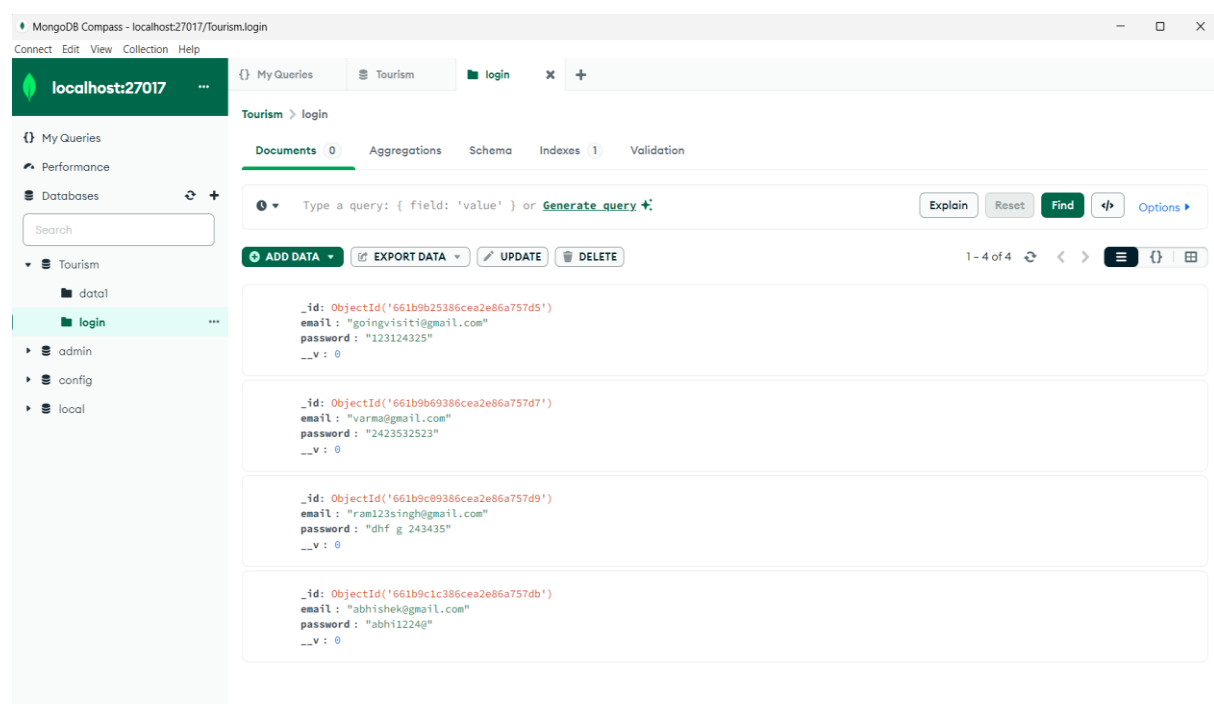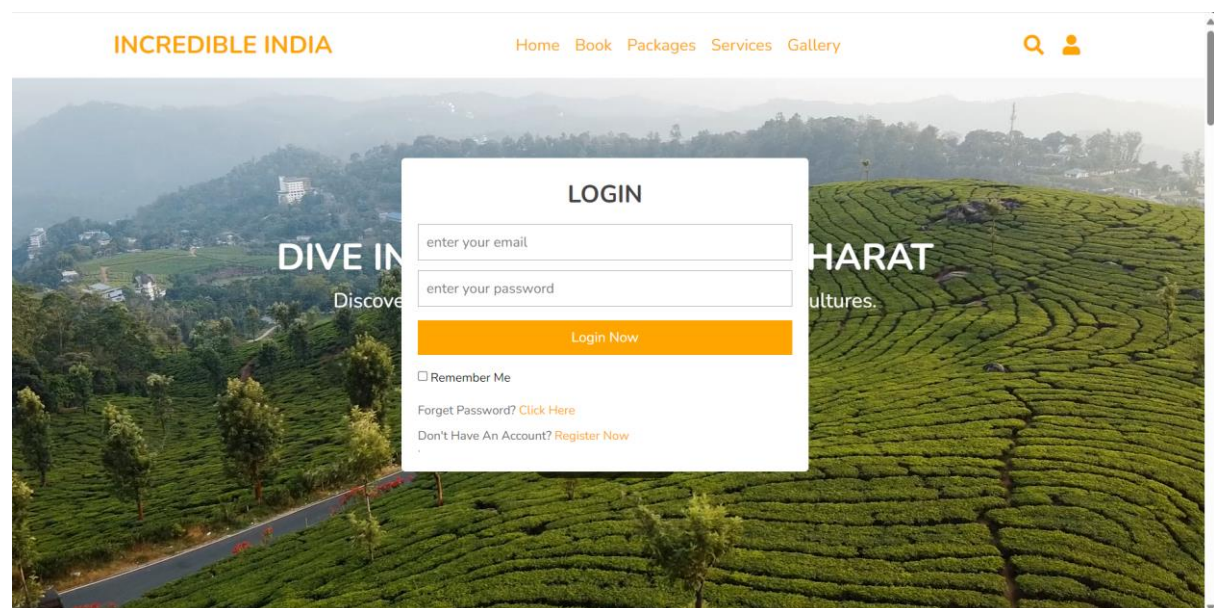
Student Data

- Name: lal kila
  Course: 5
  Marks: 2024-02-04
- Name: India Gate
  Course: 10
  Marks: 2024-04-03
- Name: Hawa Mahal
  Course: 2
  Marks: 2024-05-23
- Name: Nehr Gadh
  Course: 2
  Marks: 2024-04-12

from here

Also, we can view the information entered from localhost:3000/store which is done using ejs

Here user is asked to the place to visit, the number of guests and the date of their arrival.
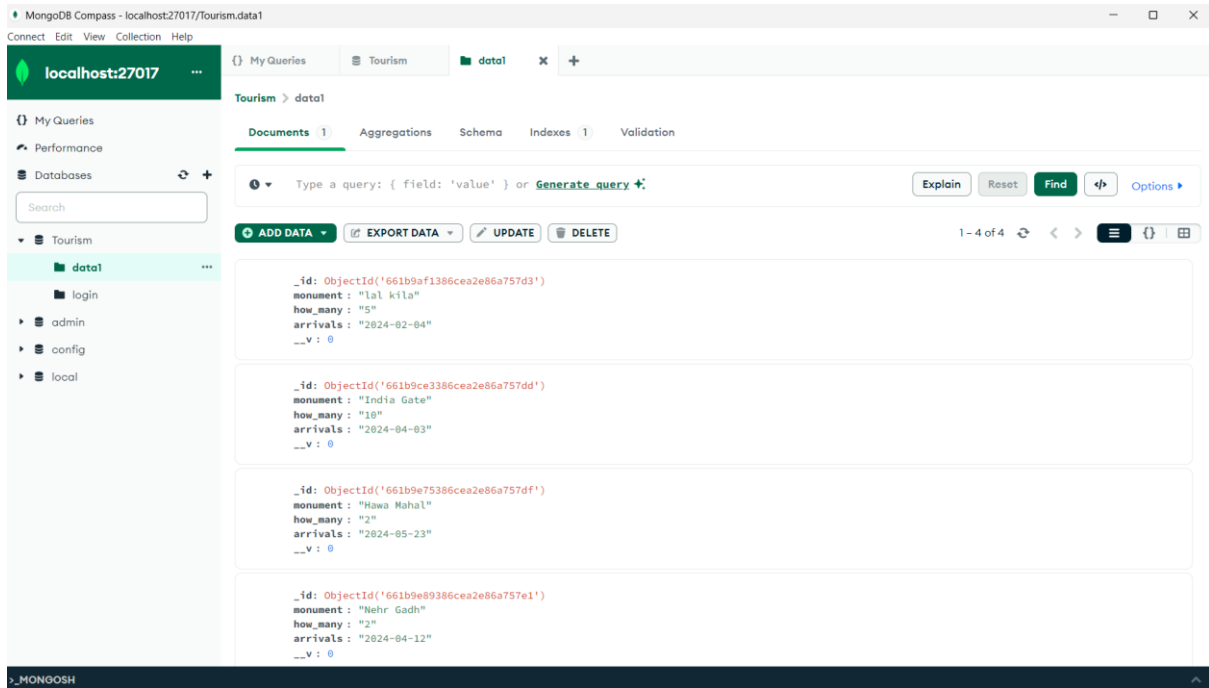
Same thing ejs can be applied to this login details page too

Chat:

This feature will help user/customer to get help in resolving their query by connecting to backend team support.

This chat thing which we will add in upcoming time as it is progress:

it will ask you enter the details

Team Support___19 : Hello Ram Singh, I'm here to assist you with your query.
Ram Singh__24 : I'm planning for trip to Jaipur which my family and some friends, so assist with that.
Team Support___19 : Okay just let me know when you want you trip to be .
Ram Singh__24 : Next month in first week

This way team support and user will connect to clear their doubts or queries they have.

GitHub-Link(repository link):

https://github.com/jaswanthsalapu924/219-222project