

CultureMap of India: Explore Indian Culture

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1. Abstract

The Culture Map of India is a web-based platform developed using React (frontend) and Spring Boot (backend) to showcase the rich cultural diversity of India. The system allows users to explore states, festivals, food, art, and regional traditions through an interactive interface. It aims to preserve, promote, and educate people about India's vibrant culture using modern web technologies.

2. Introduction

➤ Problem Statement

India's vast cultural diversity is often scattered across multiple sources, making it difficult for users to explore authentic information about different states and their traditions in one place.

➤ Objectives

- To create a unified digital platform showcasing India's culture.
- To make cultural exploration engaging using visuals and descriptions.
- To allow regional categorization of cultural data (states, festivals, art forms).

➤ Purpose & Scope

The purpose of this project is to build an educational and informative system that bridges the gap between technology and heritage. The scope includes user-friendly interfaces, categorized content, and potential expansion into blogs, interactive maps, and analytics.

➤ Technologies Used

- Frontend: React.js, HTML5, CSS3, JavaScript
- Backend: Spring Boot (Java)
- Database: MongoDB
- Tools: VS Code, IntelliJ IDEA, Postman
- Version Control: GitHub

3. System Design

➤ Architecture

The application follows a layered Spring Boot architecture:

- Controller: Handles HTTP requests and routes them appropriately.
- Service: Contains business logic and interacts with the repository layer.
- Repository: Connects with MongoDB to perform CRUD operations.

➤ Data Flow Diagram

The Data Flow Diagram illustrates how user requests pass from frontend → backend → database → response.

➤ Use Case Diagram

Use cases include:

- Viewing cultural data by state
- Searching for festivals or foods
- Admin adding or updating cultural content

4. Implementation

➤ Tools & Technologies

React was used for responsive UI development, and Spring Boot handled API management and business logic. MongoDB stored dynamic data for states, festivals, and cultural categories.

➤ Code Modules

- User Module – Displays cultural data, handles navigation.
- Admin Module – Manages CRUD operations on cultural entries.
- API Module – Facilitates communication between frontend and backend.

➤ Key Features Implemented

- Interactive homepage and region explorer
- Categorized cultural data by state
- RESTful API for managing backend data

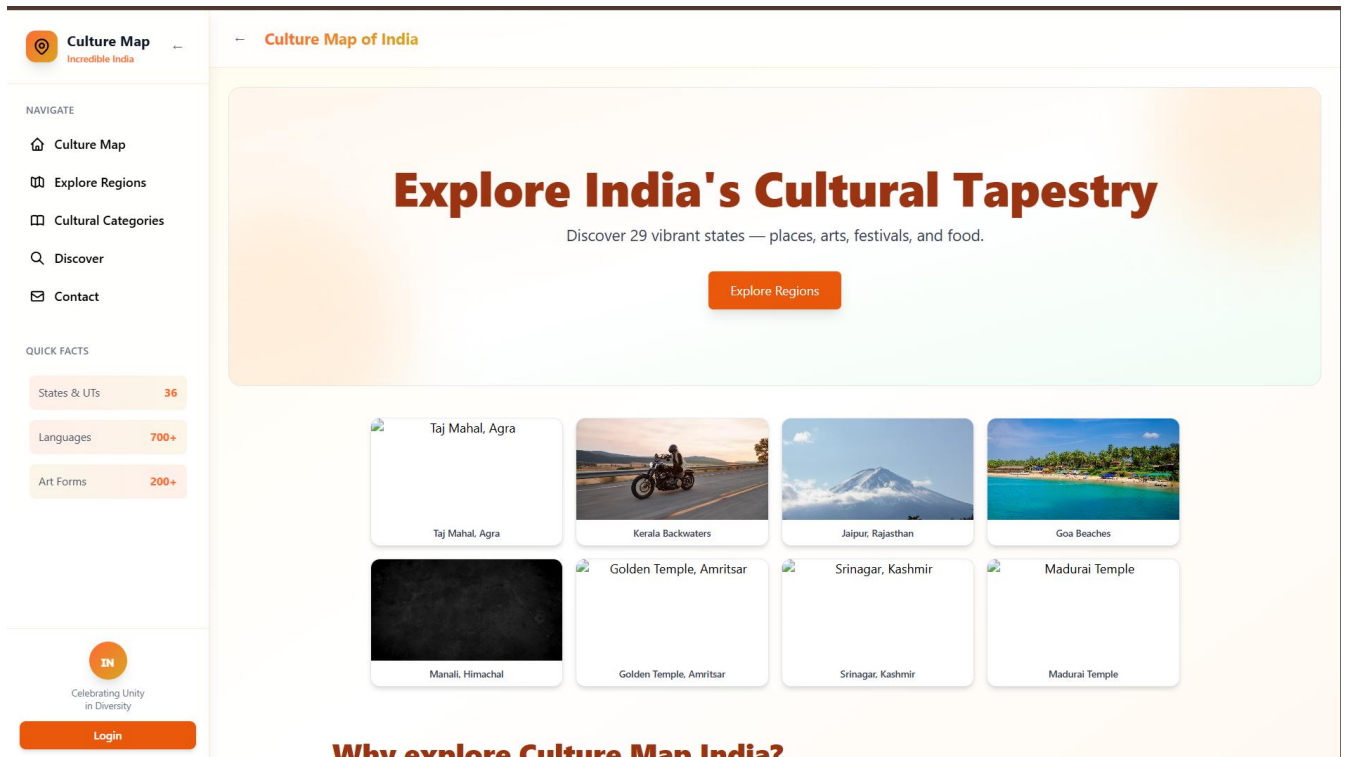


Fig: HomePage

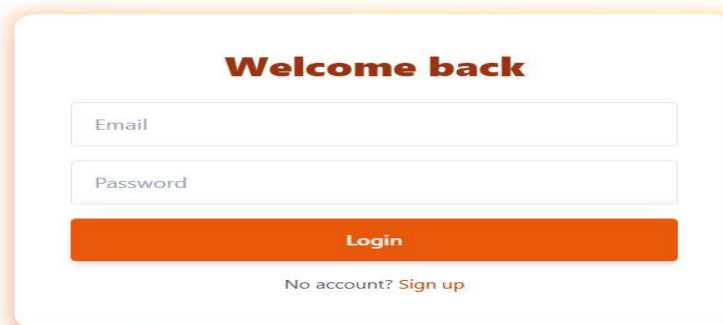


Fig: Login Page

5. Results & Testing

➤ Functional Testing

All CRUD operations (Add/Edit/Delete cultural data) were tested successfully using Postman and frontend integration.

➤ Role-based Access Test

Verified access control for admin and normal users ensuring secure operations.

➤ Report Generation Validation

Validated backend-generated reports summarizing cultural content and user interactions.

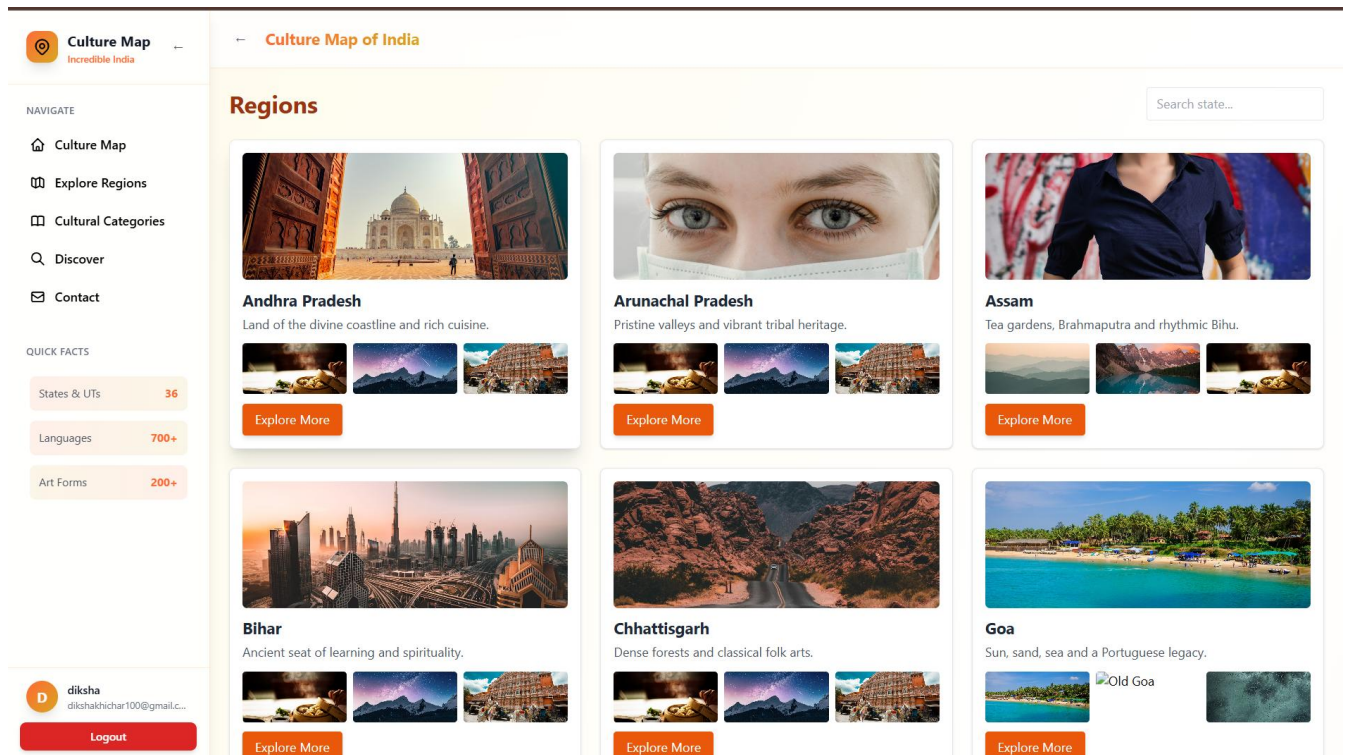



Fig: Explore Regions page


Culture Map
Incredible India


NAVIGATE

- Culture Map
- Explore Regions
- Cultural Categories
- Discover
- Contact

QUICK FACTS

- States & UTs **36**
- Languages **700+**
- Art Forms **200+**


Culture Map of India



Goa


Sun, sand, sea and a Portuguese legacy.

Popular Tourist Places




Baga Beach

Lively shacks and watersports.



Old Goa

UNESCO churches with Portuguese legacy.



Dudhsagar Falls

Spectacular monsoon cascade.

Famous Music/Dance









Fig: Inside Goa State Page


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Culture Map of India

About Culture Map India

Culture Map India is a curated guide to the country's regions—bringing together places, arts, festivals and food. Use it to plan your next trip, learn regional culture, or simply enjoy India's diversity visually.

Andhra Pradesh

Andhra Pradesh offers a unique blend of history, geography and traditions. Explore popular tourist places, discover famed music and dance forms, attend seasonal festivals, and taste authentic dishes that define Andhra Pradesh.

Arunachal Pradesh

Arunachal Pradesh offers a unique blend of history, geography and traditions. Explore popular tourist places, discover famed music and dance forms, attend seasonal festivals, and taste authentic dishes that define Arunachal Pradesh.

Assam

Assam offers a unique blend of history, geography and traditions. Explore popular tourist places, discover famed music and dance forms, attend seasonal festivals, and taste authentic dishes that define Assam.

Bihar

Bihar offers a unique blend of history, geography and traditions. Explore popular tourist places, discover famed music and dance forms, attend seasonal festivals, and taste authentic dishes that define Bihar.

Chhattisgarh

Chhattisgarh offers a unique blend of history, geography and traditions. Explore popular tourist places, discover famed music and

Fig: Cultural Categories Page

6. Conclusion & Future Scope

➤ Achievements

Successfully developed an interactive cultural platform integrating React, Spring Boot, and MongoDB with smooth data flow and UI responsiveness.

➤ Limitations

Currently, the data is manually curated; automated data collection and multilingual support are yet to be implemented.

➤ Future Enhancements

- Attendance tracking for cultural event participation
- Advanced analytics for regional trends
- Email notifications and blog integration for updates

7. References

- React Documentation – <https://react.dev>
- Spring Boot Reference – <https://spring.io/projects/spring-boot>
- MongoDB Documentation – <https://www.mongodb.com/docs>
- GitHub Project Repository – <https://github.com/Karan8890/culture-map-of-india>