

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



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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



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Culture Map
Incredible India

NAVIGATE

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

QUICK FACTS

States & UTs	36
Languages	700+
Art Forms	200+

Celebrating Unity in Diversity

IN

Login

Culture Map of India

Explore India's Cultural Tapestry

Discover 29 vibrant states — places, arts, festivals, and food.

Explore Regions

Taj Mahal, Agra

Kerala Backwaters

Jaipur, Rajasthan

Goa Beaches

Manali, Himachal

Golden Temple, Amritsar

Srinagar, Kashmir

Madurai Temple

Why explore Culture Map India?

Fig: HomePage

Welcome back

Email

Password

Login

No account? [Sign up](#)

Fig: Login Page

5. Results & Testing

➤ Functional Testing

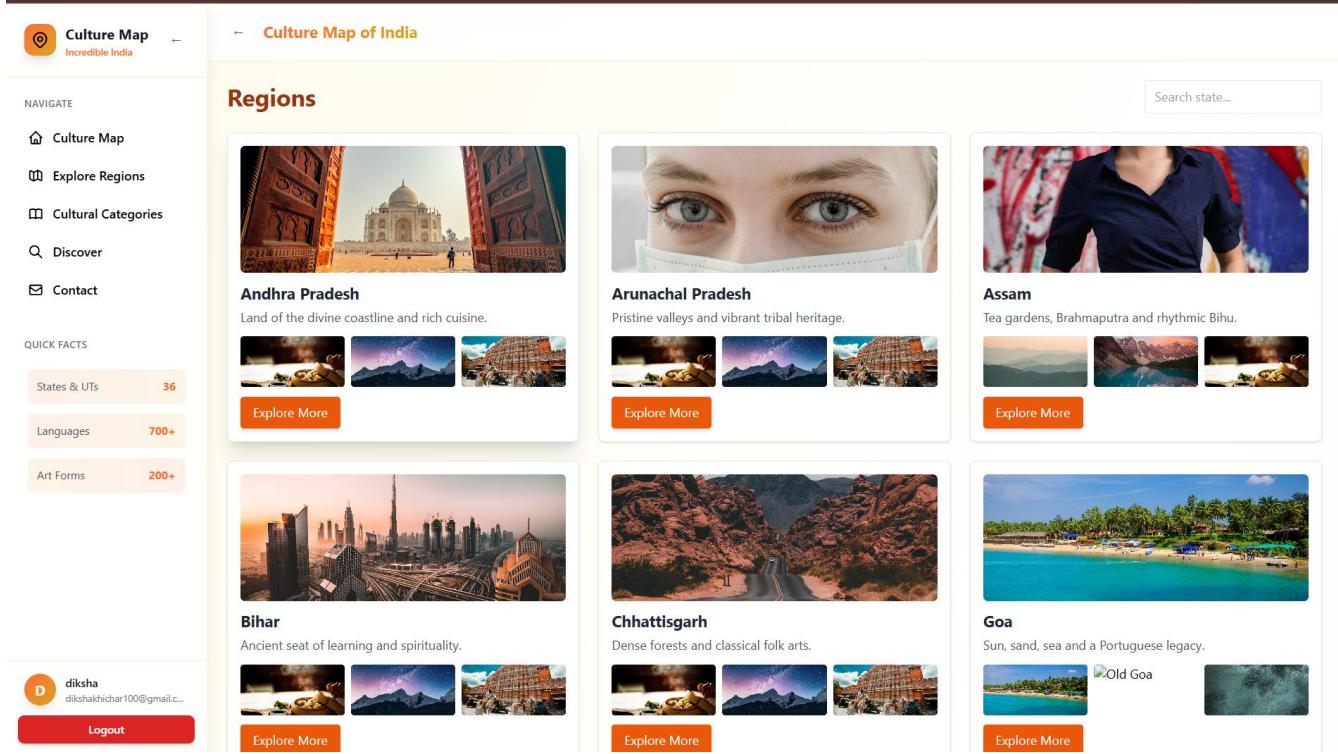
All CRUD operations (Add/Edit/Delete cultural data) were tested successfully using Postman and frontend integration.

➤ 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.

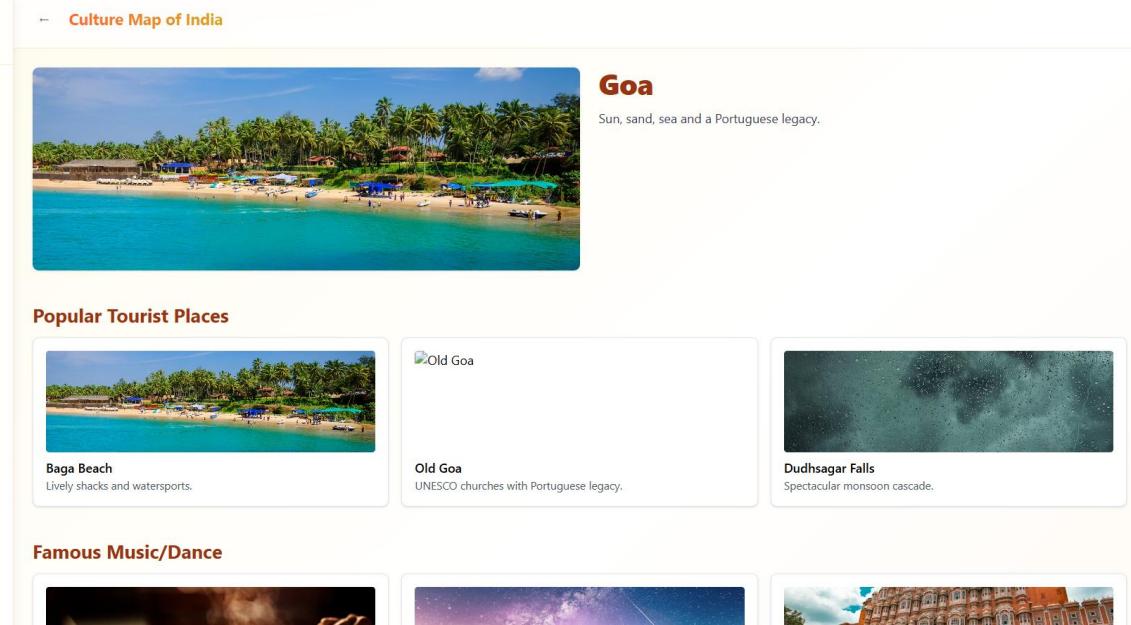


The screenshot shows the 'Culture Map of India' website. The left sidebar includes links for 'Culture Map', 'Explore Regions', 'Cultural Categories', 'Discover', and 'Contact'. Under 'QUICK FACTS', it lists 'States & UTs' (36), 'Languages' (700+), and 'Art Forms' (200+). A user profile for 'diksha' is shown at the bottom left. The main content area is titled 'Culture Map of India' and 'Regions'. It features a search bar and a grid of nine cards, each representing a region: Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, and Goa. Each card includes a thumbnail image, the region name, a brief description, and an 'Explore More' button.

Fig: Explore Regions page

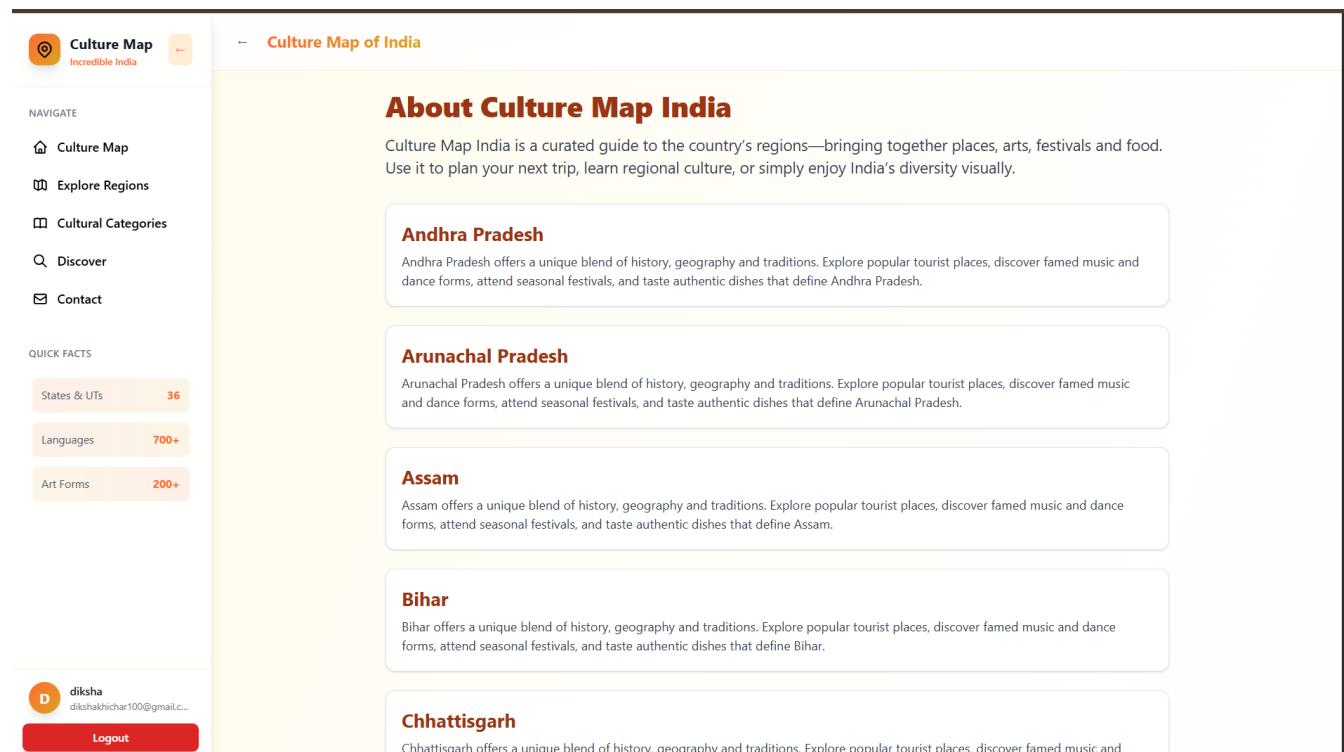
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The screenshot shows the Culture Map India website's interface. On the left, there's a sidebar with navigation links like 'Culture Map' (selected), 'Explore Regions', 'Cultural Categories', 'Discover', and 'Contact'. Below that is a 'QUICK FACTS' section with cards for 'States & UTs' (36), 'Languages' (700+), and 'Art Forms' (200+). The main content area has a header 'Culture Map of India' and a section titled 'Goa' with a photo of a beach and the text 'Sun, sand, sea and a Portuguese legacy.' It also features a 'Popular Tourist Places' section with cards for 'Baga Beach' (lively shacks and watersports) and 'Old Goa' (UNESCO churches with Portuguese legacy). There's also a 'Famous Music/Dance' section with three thumbnail images.

Fig: Inside Goa State Page



The screenshot shows the Culture Map India website's interface. On the left, there's a sidebar with navigation links like 'Culture Map' (selected), 'Explore Regions', 'Cultural Categories', 'Discover', and 'Contact'. Below that is a 'QUICK FACTS' section with cards for 'States & UTs' (36), 'Languages' (700+), and 'Art Forms' (200+). The main content area has a header 'Culture Map of India' and a large section titled 'About Culture Map India' with the text '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.' It then lists five regional sections: 'Andhra Pradesh', 'Arunachal Pradesh', 'Assam', 'Bihar', and 'Chhattisgarh', each with a brief description and a photo.

Fig: Cultural Categories Page



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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>