

Travel Planner Project Documentation

1. Project Overview

The Travel Planner is a full-stack web application designed to help users plan their trips by searching for destinations and discovering nearby places of interest. The app integrates with third-party APIs like Google Maps services to provide detailed travel information. Users can input a destination and receive details about popular places as well as nearby tourist attractions.

2. Features

- **Search Destinations:** Users can search for a destination and get a list of popular places.
- **Nearby Places:** Automatically fetches and displays nearby tourist attractions based on the selected destination.
- **Responsive UI:** A clean, responsive interface built with React for a seamless user experience.

3. Technologies Used

Frontend:

- **React.js** – For building the user interface.
- **Axios** – To make HTTP requests to the backend APIs.
- **CSS** – For styling the application.

Backend:

- **Golang (Go)** – For building a RESTful API.
- **Gorilla Mux** – For routing HTTP requests.
- **Google Maps API** – For fetching destination and nearby places data.
- **Currency Exchange API** – To handle real-time currency conversion.

Development Tools:

- **Postman** – For API testing.
- **Visual Studio Code** – As the primary code editor.
- **Git & GitHub** – For version control and repository management.

5. Setup and Installation

Prerequisites:

- **Node.js & npm** – For running the React frontend.
- **Golang** – For building the backend server.
- **MongoDB** – As the database.
- **Google Maps API Key**

6. Step-by-Step Installation:

Clone the Repository:

```
git clone https://github.com/yourusername/travel-planner.git
```

```
cd travel-planner
```

1. Setup Backend:

Navigate to the backend directory:

```
cd backend
```

Install Go modules:

```
go mod tidy
```

Run the server:

```
go run main.go
```

2. Setup Frontend:

Navigate to the frontend directory:

```
cd frontend
```

Install dependencies:

```
npm install
```

Run the React app:

```
npm start
```

7. Environment Variables :

Create a `.env` file in the **backend** directory with the following:

```
GOOGLE_MAPS_API_KEY=your_google_maps_api_key  
PORT=8000
```

For the frontend, create a `.env` file:

```
REACT_APP_BACKEND_URL=http://localhost:8000
```

8. Testing :

Backend Testing:

Use **Postman** to test API endpoints:

1. Fetch Destination Details :

GET <http://localhost:8000/places?destination=Paris>

2. Fetch Nearby Places

GET <http://localhost:8000/nearby?destination=Paris>

Frontend Testing :

```
npm start
```

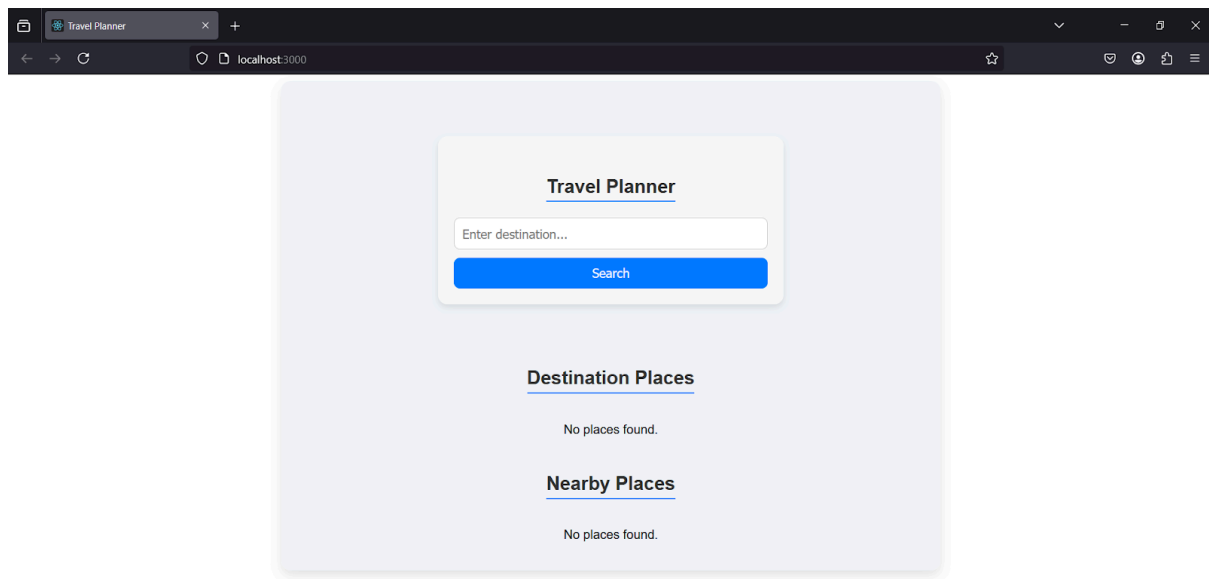
Enter a destination in the search bar and verify if the places and nearby attractions are displayed correctly.

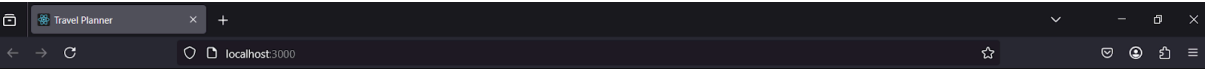
7. Future Improvements

- **User Authentication:** Add user login/signup to save personalized trip plans.
- **Itinerary Planner:** Allow users to create detailed itineraries.
- **Weather Integration:** Show weather forecasts for selected destinations.
- **Pagination:** Handle paginated responses from Google Maps API for more results.

8. Screenshots :

- Travel Planner





Travel Planner

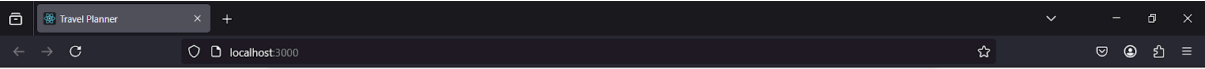
Search

Destination Places

- Delhi**
Delhi, India

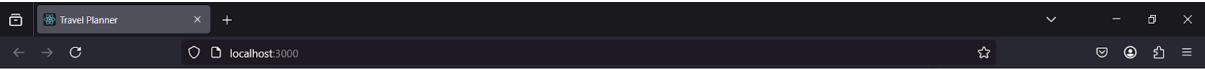
Nearby Places

- Hotel Krishna by RCG Hotels**
45, 8498, Arakashan Road, Paharganj, New Delhi
- Jantar Mantar**
Sansad Marg, New Delhi

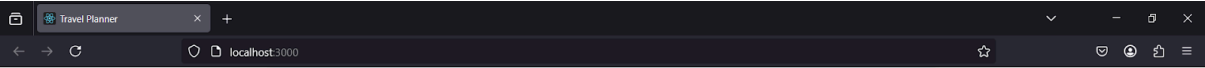


Sansad Marg, New Delhi

- India Gate**
Kartavya Path, India Gate, New Delhi
- National Zoological Park**
near Purana Qila, Mathura Road, New Delhi
- Rashtrapati Bhavan**
President's Estate, New Delhi
- Lodhi Garden**
Lodhi Road, Lodhi Gardens, Lodhi Estate, New Delhi
- Purana Quila**
J65V+RFH, Mathura Rd, Near Delhi Zoo, New Delhi
- Dargah Nizamuddin Aulia**
Boali Gate Road, Nizamuddin West, New Delhi
- Jama Masjid**
Old Delhi, Delhi
- Cathedral Church of The Redemption (C.N.I.)**
Church Road, 1, North Avenue, New Delhi
- India Habitat Centre**
Lodhi Road Near Airforce Bal Bharati School, Lodhi Road, Lodhi Estate, New Delhi



- **Cathedral Church of The Redemption (C.N.I.)**
Church Road, 1, North Avenue, New Delhi
- **India Habitat Centre**
Lodhi Road Near Airforce Bal Bharati School, Lodhi Road, Lodhi Estate, New Delhi
- **Prime Ministers' Museum & Library**
Teen Murti Bhavan, Teen Murti Marg, New Delhi
- **National Rail Museum**
Service Rd, Chanakyapuri, New Delhi
- **Gandhi Smriti Museum**
Infront of, National Defence College, Tees January Road, near Birla House, 5, Tees January Marg, New Delhi
- **National Science Centre**
near Gate No.4, Bhairon Marg, Pragati Maidan, New Delhi
- **Auliya Masjid مسجد**
12881, K Block, L-21, Connaught Circle, Block K, Connaught Place, New Delhi
- **Parliament Museum**
J694+GV5, Lok Sabha Secretariat, Parliament Library Building, Pandit Pant Marg Area, New Delhi
- **Lal Bahadur Shastri Memorial (LBS Musuem)**
Motilal Nehru Palace, Near 10 Janpath, 1, Janpath Road, Man Singh Road Area, New Delhi



Travel Planner

Surat

Search

Destination Places

- **Surat**
Surat, Gujarat, India

Nearby Places

- **Science Centre Surat**
beside Shree Maheshwari Bhawan, City Light Road, beside Shree Maheshwari Bhawan, Maheshwari Circle, Surat
- **Zaini Bunglow**
5RR7+RV5, Dutch Garden Road, Godha

