kerollos ashraf

ACL project

**Travel-Me Project Report**

TravelMe Project Report

## **Project Title**

**TravelMe**: A Comprehensive Travel Platform

Description

TravelMe is a dynamic web application designed to enhance and streamline the travel experience for users. The platform caters to tourists, travel professionals, and administrators, offering a wide range of features such as booking itineraries, managing activities, viewing reports, and managing accounts.

Key Features:

* Multi-user roles: Tourists, Advertisers, Sellers, Tour Guides, and Admins.
* Integrated video demonstrations for better user onboarding.
* Centralized travel planning with activities, itineraries, and museums.
* Support for promo codes, shopping carts, and booking systems.

Motivation:

TravelMe addresses the fragmented nature of travel platforms by creating an all-in-one solution for tourists and travel industry professionals.

Goals:

* Enhance user experience with centralized features.
* Simplify account and booking management for multiple roles.
* Encourage engagement with integrated local activities and preferences.

Build Status:

The project is fully operational and tested for core functionalities. It is in the enhancement phase to support additional features.

## Code Style:

The code follows modern React best practices, emphasizing readability, maintainability, and scalability.

### Key Practices:

* **Functional Components**: All components are implemented as functional components using hooks such as useState, useEffect, and useNavigate.
* **React Router v6**: Routes are defined with Routes and Route components for dynamic rendering.
* **Modular Structure**: Components are separated by functionality, enhancing code organization.
* **Error Handling**: Placeholder pages for non-accepted actions (e.g., NotAccepted) and error reporting.
* **CSS-in-JS**: Styling is managed through modular .css files like App.css and ButtonStyles.css.

## Screenshots

### Homepage:

### 

### Register as a tourist:

### Login page:

### Demo Vid:

### 

Tech/Frameworks Used

* React.js: For building the user interface.
* React Router v6: For seamless navigation and dynamic routing.
* CSS Modules: For scoped and reusable styling.
* Node.js: Backend support (if applicable in future).
* Video Embedding: HTML5 video player for user guides.

## Features

1. **Tourist Registration**: Seamless onboarding for tourists.
2. **Activity Booking**: Explore and book activities.
3. **Itineraries Management**: Plan and manage itineraries.
4. **Admin Features**: Comprehensive admin panel for managing users and activities.
5. **Promo Code System**: Request and apply promo codes.
6. **Dynamic Pages**: Adaptive content for multiple user roles (e.g., Advertisers, Tour Guides).

Features2

* Role-specific pages for Tourists, Advertisers, Sellers, and Admins.
* Integrated booking for flights, hotels, and activities.
* Promo code management (generation, application, and requests).
* Centralized complaint handling and reporting systems.
* Multi-page navigation with robust route definitions.

## **Code Example**

Here’s an excerpt demonstrating routing and video integration:

jsx

Copy code

import React from "react";

import { BrowserRouter as Router, Route, Routes, Link } from "react-router-dom";

import vid from "../src/vids/demo.mp4";

const Home = () => {

return (

<div className="home-container">

<h1>Welcome to TravelMe</h1>

<div className="video-container">

<h2>Watch our Introduction Video</h2>

<video src={vid} controls />

</div>

<div className="buttons-container">

<Link to="/tourist-register">

<button className="register-btn">Register as Tourist</button>

</Link>

</div>

</div>

);

};

## Installation

1. Clone the repository:

git clone [GitHub - Kerollos289/travel-me](https://github.com/Kerollos289/travel-me)

1. Navigate to the project directory:

cd travelme

1. Install dependencies:

npm install

1. Start the development server:

npm start

## API References

### Example Routes:

1. **Tourist Registration**
   * **Endpoint**: /tourist-register
   * **Method**: POST
   * **Parameters**: Name, Email, Password
2. **Login**
   * **Endpoint**: /login
   * **Method**: POST
   * **Parameters**: Email, Password
3. **Available Activities**
   * **Endpoint**: /activities2
   * **Method**: GET
   * **Response**: List of activities

Tests

Testing features are in progress, with a focus on:

* Unit testing for React components.
* End-to-end testing for routing and API integrations using tools like Jest and Postman

## How to Use

### **ReadMe Report for the Provided Code**

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* Encourage engagement with integrated local activities and preferences.

## **Build Status**

The project is currently **in progress**, with functional features like routing, role-based pages, and booking management implemented. Pending features include advanced analytics and real-time notifications.

## **Code Style**

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## **Screenshots**

Here are some screenshots of the current application interface:

* **Home Page with Video Demo**
* **Tourist Registration Page**
* **Advertiser Main Page**

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bash

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Copy code

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## **API References**

* **Route:** /tourist-register  
  **Description:** Registers a new tourist.  
  **Method:** POST
* **Route:** /tourist-book-itineraries  
  **Description:** Books an itinerary for the tourist.  
  **Method:** POST

More detailed documentation to follow.

## **Tests**

Testing features are in progress, with a focus on:

* Unit testing for React components.
* End-to-end testing for routing and API integrations using tools like Jest and Postman.

## **How to Use**

1. Launch the application and navigate to the home page.
2. Use the video demo to understand the platform.
3. Navigate using the available links/buttons:
   1. Register as a tourist or travel job seeker.
   2. Login to access personalized content.
   3. Explore and book activities, itineraries, and museums.

## Contribute

Contributions are welcome! If you want to add new features or fix issues, we would be delightful to welcome new ideas and edits for our future work and projects. Suggestions would be very beneficial too.

## Credits

* React Documentation
* YouTube Tutorials on React Routing
* Stack Overflow for troubleshooting