

Dr. D. Y. Patil Pratishthan's College of Engineering, Kolhapur

SYNOPSIS OF PROJECT



1. Name of Program : B.Tech. (CSE)

2. Name of Project Group Members:

- 1. Nilesh Jaykumar Hupare**
- 2. Prasad Bajarang Magar**
- 3. Mahesh Sarjerao Mohite**
- 4. Afrid Asad Pathan**

3. Name of Project guide : Prof. Ganesh Rathod

4. Proposed title : "Travel Companion"

5. Abstract:

Travel Companion is a React, JavaScript, HTML, and CSS web app for travel planning. It features user authentication, destination search, itinerary creation, collaboration, real-time updates, maps integration, budget tracking, and recommendations. With an intuitive UI and mobile responsiveness, it simplifies travel planning for individuals and groups, enhancing the overall travel experience.

➤ Languages used for the code:

1. React, JavaScript, HTML, and CSS
2. DATABASE (MYSQL)

6. Synopsis of Project Work

6.1 Introduction / Relevance:-

The Travel Companion project is an exciting web application that has been meticulously crafted to revolutionize the way we plan, organize, and experience our journeys. In a world where travel plays an integral role in our lives, this React-based web app aims to simplify the process, enhance collaboration, and elevate the overall travel experience for individuals and groups alike.

Traveling is more than just moving from one place to another; it's about exploration, discovery, and creating lasting memories.

However, the complexities of travel planning can often be a daunting task, involving numerous details, destinations, and activities. This is where Travel Companion steps in to make the journey seamless, enjoyable, and stress-free.

Our web application brings together a host of features and functionalities, all designed with the traveller in mind. Whether you're a solo adventurer seeking new horizons or a group of friends planning the ultimate getaway, Travel Companion is here to assist you every step of the way.

6.2 Problem Statement:-

Problem Statement: Traveling is an integral part of modern life, offering opportunities for adventure, relaxation, and exploration. However, the process of planning and organizing a trip can often be a challenging and time-consuming endeavour. Travelers frequently encounter several pain points and obstacles that hinder their ability to make the most of their journeys. The Travel Companion project aims to address these problems and provide solutions to enhance the travel planning experience.

1. **Information Overload:** Travelers often face an overwhelming amount of information when researching destinations, accommodations, activities, and transportation options. This abundance of data can lead to confusion and decision fatigue, making it difficult to create a well-structured itinerary.
2. **Lack of Collaboration:** Travel is often a shared experience, whether with friends, family, or fellow adventurers. Coordinating plans, sharing ideas, and collaborating on itineraries can be challenging without a centralized platform.
3. **Real-time Updates:** Travel plans can be disrupted by unforeseen circumstances such as weather changes, flight delays, or travel advisories. Staying informed and adapting to these updates in real time can be a significant challenge.
4. **Budget Management:** Travelers often struggle to stick to their budgets during trips, leading to financial stress and overspending. Effective budget tracking tools are essential to maintain financial control.
5. **Personalized Recommendations:** Finding the best activities, restaurants, and accommodations that align with individual preferences can be time-consuming. Travelers often seek personalized recommendations tailored to their interests.

The Travel Companion project recognizes these pain points and seeks to provide a comprehensive solution that streamlines travel planning, enhances collaboration, and ensures a smoother and more enjoyable travel experience. By leveraging the power of React, JavaScript, HTML, and CSS, this web application aims to simplify itinerary creation, offer real-time updates, support collaboration, and provide personalized recommendations, ultimately addressing the challenges faced by travellers in today's world.

6.3 Proposed work :

The proposed work for the Travel Companion project aims to deliver a feature-rich and user-centric travel planning web application that addresses the challenges faced by travellers. By implementing these tasks and components, the project will provide a valuable tool for both individual and group travellers, making the journey from planning to exploration more enjoyable and efficient.

6.4 Objectives:

The main objectives of the Travel Companion project are as follows:

1. **Simplify Travel Planning:** Create a user-friendly platform that simplifies the complex process of travel planning, making it accessible to users of all experience levels.
2. **Enhance Collaboration:** Enable users to collaborate with friends, family, or travel companions to create and coordinate travel itineraries, fostering a sense of shared adventure.
3. **Real-time Updates:** Provide users with real-time information on weather, travel advisories, and notifications to help them adapt to changing circumstances during their journeys.
4. **Efficient Itinerary Management:** Develop tools that allow travellers to easily create, customize, and manage their travel itineraries, including destinations, dates, and activities.
5. **Budget Control:** Implement a budget tracking feature to help travellers set financial limits for their trips and monitor expenses to prevent overspending.
6. **Maps Integration:** Integrate maps and navigation functionalities to help users visualize their travel routes and explore destinations with ease.
7. **Personalized Recommendations:** Offer tailored recommendations for activities, restaurants, and accommodations based on user preferences and previous travel experiences.

8. **High Availability:** Deploy the web application to a reliable hosting platform to ensure that users can access their travel plans whenever and wherever they need them.

These objectives collectively aim to create a versatile and indispensable tool for travellers, enabling them to plan, organize, and enjoy their journeys with confidence and convenience. Travel Companion seeks to streamline the travel planning process, improve collaboration, and empower users to have memorable and stress-free travel experiences.

6.5 Project Requirements :

Project requirements for the Travel Companion web application can be categorized into functional, non-functional, and technical requirements. Here is a breakdown of the project requirements:

Functional Requirements:

1. User Registration and Authentication:

- Users should be able to create accounts with a username and password.
- User authentication must be secure and protect user data.

2. User Profile Management:

- Users should be able to create and update their profiles, including personal information and travel preferences.

3. Destination Database:

- The application should have a comprehensive database of travel destinations with detailed information.

4. Destination Search:

- Users should be able to search for destinations based on criteria such as location, type of destination, and user ratings.

5. Itinerary Creation:

- Users should be able to create and customize travel itineraries, including adding destinations, specifying travel dates, and adding activities.

6. Collaborative Planning:

- Users should be able to invite others to collaborate on their travel itineraries.
- Collaboration should support real-time updates and changes.

7. Real-time Updates and Notifications:

- Users should receive real-time weather updates, travel advisories, and notifications relevant to their travel plans.

8. Maps Integration:

- The application should integrate mapping services to display travel routes, destinations, and points of interest.

9. Budget Tracking:

- Users should be able to set budgets for their trips and record expenses.
- The application should provide budget summaries and alerts.

10. Personalized Recommendations:

- The application should offer personalized recommendations for activities, restaurants, and accommodations based on user preferences.

Non-Functional Requirements:

1. User Experience (UX):

- The application should have an intuitive and user-friendly interface.
- It should provide a smooth and enjoyable user experience.

2. Performance:

- The application should be responsive and load quickly.
- It should handle a significant number of users simultaneously without significant performance degradation.

3. Security:

- User data and travel plans must be securely stored and protected.
- Any third-party APIs or services should be integrated securely.

Technical Requirements:

1. Front-End Technology:

- The application should be built using React for the front-end.
- HTML and CSS should be used for structuring and styling.

2. Back-End Technology:

- The back end should be built using a suitable technology stack, such as Node.js.
- A database system (e.g., MySQL) should be used for data storage.

3. Maps Integration:

- Maps integration should use a mapping service like Google Maps.

4. APIs and Data Sources:

- Integration with external APIs for weather updates, travel advisories, and recommendations.

These project requirements serve as a foundation for the development of the Travel Companion web application, ensuring that it meets the needs of users, performs reliably, and provides a secure and enjoyable travel planning experience.

7. Plan of proposed work:

Sr.no	Activity/month	Aug	Sep	Oct	Nov	Dec
1	Introduction to Project					
2	Project Planning					
3	Requirements Gathering					
4	Requirement Analysis					
5	Designing					
6	Modelling					
7	Coding					
8	Testing					
9	Report Generating					
10	Project Binding					

8. Approximate Expenditure

Total Cost = 1000 Rs.

Roll No.	Name of Project Group Member	Sign
20	Nilesh Jaykumar Hupare	
37	Prasad Bajarang Magar	
40	Mahesh Sarjerao Mohite	
45	Afrid Asad Pathan	

Guide Name Prof. Ganesh Rathod	HOD (CSE) Dr. S.R.Arlimatti
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References:

1. <https://geeksforgeek.com/javase/tutorial>
2. <https://www.tutorialspoint.com/java>