AMAL JYOTHI
COLLEGE OF ENGINEERING
(A U T O N O M O U S)

EXPLORE HUB

23MCA245 - Mini Project

Scrum Master

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DEPARTMENT OF
COMPUTER APPLICATIONS

ABSTRCT

Explore Hub, built with Django, connects travel enthusiasts and facilitates seamless travel planning and group formation. Travel agencies can list their packages, which must be admin-approved. Users can create travel groups based on destinations and dates, with each group limited to 10 members, and use real-time chat for planning. Future phases will include booking features, personalized itineraries, and machine learning for personalized recommendations, dynamic suggestions, advanced search with filter options and popularity predictions. Roles for Local Guides and Event Organizers will also be added to enhance the travel experience.

Users Functions

- Admin:
    - Approve Travel Agency Accounts: Admins can approve or reject travel agency accounts, controlling which agencies can list their packages on the platform.
    - Manage Listings and Users: Admins can oversee and manage all travel packages, user accounts, and travel groups.
- Travel agencies:
    - Create and Manage Accounts: Agencies can sign up and create profiles, which need admin approval before activation.
    - List Travel Packages: Once approved, agencies can list travel packages, providing details such as destination, itinerary, cost, and available dates.
    - Update and Manage Listings: Agencies can edit or delete their travel packages as needed.
- Regular users:
    - Sign Up and Profile Management: Users can sign up, log in, and manage their profiles, including setting interests and travel preferences in the later stage of the project.
    - Browse and Search Travel Packages: Users can view and search for travel packages listed by various travel agencies.
    - Create Travel Groups: Users can create travel groups by selecting a destination, setting preferred travel dates, and providing a group description.
    - Join Travel Groups: Users can browse available travel groups and join those that match their interests and travel plans.
    - Group Communication: Users can engage in real-time chat with other members of their travel group to discuss plans and coordinate activities.
    - Manage Group Membership: Users can leave groups they no longer wish to participate in.
    - Search and Filter: Users can utilize advanced search and filter options to find travel packages and groups based on various criteria such as destination, dates, interests, and more.

- Local Guides (for main project):
  - Provide Travel Advice: Offer personalized travel advise and recommendation of their locality.
  - Host Travel Experience: Organize local experience upon booking them.
- Event Organizer (for main project):
  - Plan and Manage Events: Create and manage travel-related events.
  - Handle Registration: Manage participant registrations and payments.
  - Communicate with Participants: Send updates and communicate with participants.

Machine Learning Technologies Implemented (For main project)

- Personalized Recommendations: Suggest travel packages and groups based on user behavior and preferences.
- Dynamic Group Suggestions: Recommend new groups to users based on their interests and platform trends.
- Group Popularity Prediction: Highlight trending and popular groups to increase user engagement.