AC51046 Coursework 3 - Web Application Project
Holiday Planner Application

Group Number D

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Summary of Holiday Planner Application

Holiday Planner is a travel website dedicated to helping you plan your holidays, committed to meeting all your travel needs and making your journeys more enjoyable and stress-free. No matter which city in the world you dream of visiting, it provides advice and comprehensive planning to help you achieve your ideal vacation experience effortlessly. Its goal is to design the most suitable travel plan for you, simplifying and streamlining the entire process.

The website offers a wide range of versatile and practical features. By combining your chosen destination with local weather forecasts and events, it assists you in organizing your itinerary in the best possible way. For those who haven't decided on a travel destination yet, the **"Popular Destinations"** page serves as a source of inspiration. This section provides detailed introductions to the world's current top travel spots, along with up-to-date information on activities and weather for each destination. The user can explore the most popular travel spots at the moment and learn about the highlights of and historical facts for each location using the Wikipedia API. From the Eiffel Tower in Paris to cherry blossom seasons in Kyoto, it helps you discover the destinations that best suit your preferences.

On the **Home Page**, simply select the country you want to visit and your intended departure date (it is important to note that the date needs to be in a valid format and in the future). The system will then display all the major cities within that country. You can then click on any city suggestion and the website will display the earliest events for that city. The homepage uses the CountryStateCity API to select the country code (iso code), that feeds into the next API - GeoDB Cities , which allows major cities (sorted by having biggest population) of the specified country to be displayed. We then use Pexels API for each of those cities, to display a representative image of that city. When a place is selected, the events page passes the city name from GeoDB Cities API on to the AccuWeather API and Ticketmaster API to display the weather forecast and the first three earliest events for the period chosen initially. The Ticketmaster extracts images, titles and descriptions for each event. The "Find on map" button takes the coordinates from Ticketmaster API and feeds them into the Google Maps API which displays the chosen event location on a map.

Future improvements: Currently, the website displays three events in popular destinations. In the future, we plan to show more cities and recommend destinations based on customer preferences, such as suggesting indoor or outdoor activities depending on the weather, enhancing the overall customer experience. Also, a booking feature will be added, allowing customers to directly book attraction tickets and transportation services on the website, simplifying the process, saving time, and making it easier for customers to enjoy their travels. This will also improve the overall service of the website.