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Project Description

Goal

IMGGO is a travel assistance application that allows the user to upload a picture of a desired travel destination. With the use of multiple APIs, the application will determine the location of the picture and provide the user with a map of the location, flights, hotels, and car rentals. The overall goal of the application is to allow users to travel to locations simply based on a picture they came across.

Planned Scope

There are several features that the project will have to have in order to function correctly. The first mandatory feature will be to detect the general location of a picture and display this area on a map. Using the general location, the application will search for flights to that destination. As a stretch goal, we hope to provide the user with hotels and car rentals as well. Another mandatory feature will be a file upload link to receive the picture from the user. As a stretch goal, we hope to add drag and drop functionality to make the file upload process more user friendly. The third mandatory feature will be to provide users with a set trip duration. As a stretch goal, we hope to allow the user to customize their travel options such as duration, hotel amenities, etc. The last mandatory goal will be to retrieve the starting location from the user. The fallback plan is to have the user simply input their starting location. As a stretch goal, the gps location of the user will be used as a starting point instead.

Existing Web Services

We anticipate using the Google Vision API to detect the general location and labels contained in an image. Once the destination is determined, Google Maps API will display the physical location of the user's destination on a map. A travel API such as Skyscanner or AllMyles will be used to gather information about upcoming flights and display featured flights to the user. Ideally, featured flights can be filtered by date and time. Additionally, we hope to provide the user with hotels and car rental services with the travel API.

Background Story

Social media such as Facebook and Snapchat are growing more and more popular. Often times I'll find myself seeing pictures of interesting places on these sites and want to visit them. However, these images do not always include their location. So I have an image that contains my dream destination, but no way of getting there. IMGGO provides just the service to upload a picture and plan a trip around it. Now you can download the picture, upload it straight to IMGGO and get travel options to the location.

Developmental Challenges

Some developmental challenges that we foresee include API integration, access to the proper privileges, familiarity with the Django REST Framework, and familiarity with languages

such as HTML, CSS and Python. Considering our team has little experience building any kind of web based application, most of our time will be spent learning about these frameworks.

Organizational Plans

In regards to how the work will be broken down, each team member will be responsible for one major part of the project. Frank will be responsible for the Google Vision API and making sure that the file upload works. Briana will be responsible for the Google Maps API, Travel API, and making sure that they can take information from the Google Vision API to run the correct searches. Wyatt will be responsible for editing the HTML and CSS of the pages to make sure that everything is user friendly. Although these are the general responsibilities of each team member, everyone will contribute as needed to the project.