

CS 411 Team Assignment 3 – Analysis and Architecture Design

**Jason Lu
Allison Kaufman
Gaby Carrillo
Carole Sung
Group 9
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Professor Donham**

Diagram: 5th User Story

Happy Path: The user is able to successfully login using his/her Google account, then the user is able to input his/her location of interest and amount of days planning to spend there, then the app will successfully request data from the appropriate API (Depending on weather, restaurants, or tourist sites the app will request data from the Weather Channel API, Yelp's API, and Trip Advisor's API respectfully), then the API or database will send data back to the app which the app will then display in a user friendly way.

If logging in is unsuccessful then the app will redirect the user to login again, displaying a "login failed, please try again" message.

Exception 1: If the app fails to request information from an API or database, the app will display a "Data not found. Please enter a new location or try again" message.

Exception 2: If the information fails to reach the app from the API or database the same message will be displayed and the user will have to try again by entering a new location of interest or trying the same one again.

We believe that using Python as our primary front-end language and mongoDB as our primary backend framework for several reasons. The APIs that we are using to build our app support request formats in Python. Python also has a very extensive and helpful set of libraries that we think will make developing the app simpler. We chose mongoDB because we believe it is better for user data storage, and very compatible with database management.

We did not choose to go with Django as our framework for other reasons. We want to widen our skill set and we do not have experience with Mongo. If when we start actually coding we realize that we may need to use Django, we can make that change, but we believe that Django is not as good at supporting a larger user database. We decided not to go with PHP because we believe Python will be simpler to implement in and PHP is not as good as Python when it comes to object-oriented programming.