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CSCI 294 2A
September 4, 2018

Tri-and-Travel-App

The purpose of this application is to establish a working POC that has three main basic parts. There will be a backend database that hold all the data with an API layer in front of it being used to serve the two other technologies. First being a functioning mobile application that can access the data and display the data in a useful interactive manner. Secondly there will be a web portal/app that can also display the same information as the app is accessing from the backend. We are approaching this as the basis being a GPS mapping service at first and adding functionality as we see fit and appropriate as we develop on the application and learn more about the complexities of architecting this type of a system.

In the end I hope to have a fully functioning system that I can pull up a piece of data in both the app and online web portal that will display accurate, identical and dynamic data. This is acting as a POC for another project that is detached from the computer science program at Moravian, however this provides for a very opportunistic learning experience and exposure to the inner mechanics of architecting, building and testing a complex system. Initially the possible list of technologies to be used are Apigee for API management (a Google subsidiary), a Django or Spring front end for the web application, almost definitely Flutter for iOS and Android application development and either AWS, GCS or a locally hosted server for cloud data storage. The idea is to have a high-availability and demand-based-scaling system so that this experience is similar to what the world is moving towards with cloud computing.