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Milestone 1

Team TravelAtlas

Below are the key tools, technologies and the process model used for our project.

Key Tools:

- VSCode for writing code

  We chose VSCode as our code editor since it has several extensions that will allow us to write our code more efficiently. For this project, some of the extensions we will be using include: GitLens, ES7 React/React-Native snippets, and Prettier - Code Formatter.

- GitHub for version control

  GitHub has great documentation and a simple user interface that makes managing multiple branches and pull requests easy. By storing our code on GitHub's remote servers, anyone on the team can stay up to date with the latest changes to our code base.

- Discord for communication.

  To provide a platform for all teammates to communicate with each other regarding the project, we set up our own Discord server and have weekly meetings.

- Figma for UI design

  Figma is a web-based tool for creating UI designs and prototyping animations for components. It provides students with their Pro subscription for free, which allows unlimited documents and unlimited collaborators.

- Google Docs

  We are using Google Docs to share ideas and to write up our milestone documents. Google Docs allows us to collaborate in real-time, which makes it faster and easier for us to give feedback on each other's writing.

Technologies:

- React Native

  Unlike other programming languages, React Native has cross-platform support for both iOS and Android. This will allow us to efficiently develop an application for both iOS and Android without having to develop two separate applications for each platform.

- JavaScript

  React Native is based on JavaScript. A basic understanding of the language will help us be more proficient in Reactive Native.

- Python

  Python will allow us to scrape the Internet for data our application needs, such as travel locations and activities. As a result, this will allow our application to give recommended locations for certain times.

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Process Model:

We will be using the Incremental Model. The incremental model allows for a more linear sequence process that has an iterative way of prototyping. Furthermore, this model produces a working product with each iteration allowing us to improve the overall product. This fits in with our project as we will be able to build a basic product and continue to add features as we develop the program. Also, by having increments, we are able to evaluate what we have worked on and therefore obtain feedback on what to improve and decrease the risks involved in our project.