Teddy's Brochure Requirements Summary

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Teddy's Park Brochure aims to provide a consistent, versatile, and reliable brochure for all national parks and/or forests in the United States. Simply enter the national park or forest you wish to visit, and the app will download a package to your phone containing a park specific map, a first person walk-through map, news, rules, information, guides, survival tips, weather forecast, and list of volunteer events.

For speed and latency requirements, the response time should be within a day with a 25 millisecond latency. The response to the user should be fast enough so that the user's thought process is not disrupted. The accuracy of the application should be measured by the reliability of google maps and google earth and those API's should be accurate 97 percent of the time, unless it is possible to make it 100 percent of the time.

The application will accept currency in any part of the world but will convert it to US dollars as the application is right now only used for national parks in the United States. The application will be made first in english as it is for national parks in the United States, and will be adapted to other foreign languages. The amount of languages can depend on the traffic that users are viewing from. The app should be easy to learn and should not need a lot of training to use.

The product will be the most busy either in the morning and afternoon. The resources available will be reduced in the night time, but may be adjusted as necessary based on user demand. We expect 50 - 100 users for each national park in our database to be using the application in the afternoon.

Maintenance and updates should not take longer than 7 days to implement. This decision is mainly because national parks do not change that often when compared to companies with businesses, so high maintenance is not necessary. The code will be open sourced so that other users can contribute to the application. This will allow moderators to handle pull requests from users and allow for users to create issues and update the code with documentation when needed. Support may be given through online forums or suggestions from the users. There will be a page to report bugs or conflict with the product. All development projects will have flaws. This is mostly minimized by continuous testing and inspection. Yet, these occurrences will always occur and it is important for the development team to know of these flaws.

For now, the application will be developed for iOS and Android because those are the most popular operating systems at this time. The application will be around 50-100 MB on iOS and 20 MB on Android so that it can hold pdfs of park guides, maps, and a portion of google maps and google weather. As new operating systems become popular, the application will shift to those to accomodate for the user experience. The application should be able to operate with at least Android 8.0 and iOS 13.

The application should have proper features for accessibility. There might be users that will use the product and be color-blind, or partially sighted. Features like a zoom and resizing font can be very useful. User's that have color-blind disabilities, a color-blind feature can be used to aid these user's sight. The feature can have a full availability to the user to choose any combination of colors to assist them best.

The product should meet all legal requirements that might occur. In example the application will be using information about each national park. The data must be approved to use the data accordingly. The product should stray away from confirming with politics. This can alter the opinion of the product, and what is important is the functionality that it brings to the National Parks. The product shall not intentionally aim to offend any religion or ethnic groups.

It is important that in order for our production to be out and available to the public, we meet the terms of the marketplace. We have to make sure that we are available for download with the google play store and apple store. It is important to be available and compatible with their device's operating systems. Users should be able to easily download and use the application. There should be no required manual to follow or experts to help the user get set up.

The product should be released every 3 months to continually update features and enhance user experience. Park information must be updated and functionalities must be maintained. It is important to inspect after releases and search for bugs, as well as fix user reported bugs. The product will have a maintenance log. This is all important to enhance user experience with the application.