

Travel Advisor Environmental Scenario

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Travel Advisor is a mobile application that assists users in choosing which national park they want to visit. It provides useful information about the park like weather conditions, activities that can be performed within the park, scenic locations within the park, and the various wildlife seen within the park, such as the types of fish that inhabit the park's lakes. The most important thing in the application is the navigation guiding system, which highlights specific scenic routes within a user's chosen park, allowing the user to traverse the park in a way tailored by them. The navigation system keeps track of a user's location and not only relays it back to the user, to help them keep track of their own location, but also saves the location for usage in the event of a user-reported emergency. The goal of this application is to allow users to explore a national park to their content, while also offering an extra layer of safety and relief to the user, by providing an emergency button which brings help from local emergency services to the user.

Scenario “Exploring Yosemite”:

Upon opening the application, the user will be connected to the server via a secure connection. In this case, the user will sign in as a visitor and have the option to search for their national park of choice via map or photo gallery. Since the user is signed in, any previously favorited parks will be quickly accessible. The visitor could then choose the photo gallery to view different user submitted and official photos for the various national parks. The user is presented with images of landmarks and popular spots to view and experience, so they can plan ahead on possible routes to navigate through during their visit. This feature will also be used when the user is at the park, as the Scenic Spots Guide could be a list of places to go that can be checked off by the user.

Once the location is determined, say Yosemite National Park, the user opens the interactive map and the user can tap on said desired park they want to visit. Here, the user can also check the local weather advising to have an ideal plan on when to go. The user will also be prompted to download an offline map of the national park prior to visiting the park, to be used in the event of a loss of connection. This map will use the navigation system which provides a very basic route and will mainly include trail maps, campgrounds, and service areas.

After arriving at the destination, the user can then use the offline map as well as the Scenic Spots Guide to plan out where to go. While exploring the Yosemite National Park, the user may get lost. The application will help solve this problem by giving the user the option to check in and from the moment they do so, the application will save their last known location. This leads to a workaround to the lack of a stable cellular signal because the application offers a safety net to the user to set a certain amount of time that the user thinks they will stay in the National Park. If the user does not turn off this timer or check out after the allocated time set by the user, then the application will ping the user to turn off the timer or notify the emergency services to get ready to commence a search mission after 3 hours of no response from the user.

Scenario Diagram

