Seekr Release Summary

Release Date: December 3, 2024

Key User Stories:
- {1} As a returning user, I want to be able to create a profile in order to save my information. [8]
    - A login page must securely log a user into their account
    - A registration page must securely create a user account
    - A profile page must be created so that a user can view their information
    - A user must be stored to the firebase
- {1} As a hiker, I want to be able to interact with a map to see my location, orientation, and distance. [13]
    - A map must be created which the user can navigate with the touch screen
    - The location must be dynamically updating
    - The heading of the user must be displayed
    - Can calculate the distance between a destination and the user location.
    - The camera can be centered on the user location.
- {2} As a navigator, I want to be able to see my visual progress to the destination. [8]
    - Create a dynamically updating path between the user and the destination
    - The path can be deleted.
- {1} As an explorer, I want access to navigational tools that help me figure out how I'll reach my destination. [13]
    - A progress bar which fills as the user nears his destination
    - A compass which points the direction the user should travel in.
        - This should be a weighted combination of the direction of the destination and the direction of the calculated
    - The user has visual feedback when they are pointed towards the destination
- {1} As a traveler in an unfamiliar area, I want to be notified when I am going the wrong direction. [8]
    - A notification is sent when the user is not making progress towards the destination for more than a minute.
    - Another notification isn't sent until the user starts to make progress towards the destination
- {2} As a community member, I want to be able to mark interesting points so that the app properly reflects my area. [5]
    - The user is able to mark places of their choosing with pins
    - The user will be able to view these on the map and in a dedicated menu, where they will also be able to delete, or choose from predetermined locations to add to their list.
- {2} As a traveler, I want to be notified when I am near an interesting landmark. [5]
    - When a user enters a set radius around a landmark a pop up appears on the screen
    - The user has the option to continue navigating with the app, or learn more about the landmark
- {3} As a user, I want to be able to control the amount of navigational information I receive. [3]
    - All of the map information should be able to be hidden on a toggle for the user, leaving only the navigational tools we have created.
- {3} As a traveler, I want to know of nearby bathrooms and cafes so that I can meet my bodily needs. [3]
    - The user is able to view bathrooms and cafes and is able to add them to their

local pin collection.

Known Problems:
- Exiting and re-entering the app causes weird behavior with many of the maps features
- An old path can sometimes remain on the map, may be fixed
- Hard mode works but makes the app glitchy, including chunks of momentary visible map
- If a user somehow logs into an account that does not exist fully in the database, there is no logout option available, as it says the user has no data to report on the profile page.
  - Must clear cookies/cache to remove the user from their session

Product Backlog:
- {3} As a moderator, I want to be able to promote or report markings on the map so that all information is as accurate as possible. [8]
- {2} As a guide, I want to be able to share a scavenger hunt of multiple destinations with route recommendations. [13]
- {4} As a collector, I want to track my progress through interesting achievements and badges so that I keep coming back to the app. [13]
- {2} As a reviewer, I want the app to keep track of the path that I took so that I can analyze the choices I made.
- {3} As an explorer, I want my path to be scored in a way that encourages exploration.
- {4} As a competitor, I want a leaderboard so that I can compete with my friends.
- {3} As a contributor, I want a karma system that rewards me for my contributions.