Team Number: Section 022 - 3

Team Name: GitLit

Team Members: Sophia Eisner, Adam Chehadi, Samyak Ghimire, Evan Banks, Raanee Smith

Application Name: PeakTrek

Application Description: For this project, our application will be a hiking based platform called PeakTrek. This platform will be a preloaded website with hiking trails located in Boulder (grabbed from AllTrails). The application will contain a visual display that includes a map along with numeric displays of elevation and distance traveled. On top of this, users will be able to access a database of hikes and create their personalized version of the app, which would allow for user specific trails and logged information of previous trails and data.

This application would allow for a more simplified and engaging hiking experience. Users would not only save time from the hassle of finding a trail that soothes their needs being minimized but also will be able to fully emerge themselves in the hiking experience with just the click of a button. Whether the app be used as a more individualized tool or a competitive app for interacting and bonding with friends, family, or coworkers our goal is to accommodate the users experience.

Vision Statement: PeakTrek was created for the active and adventurous individual in need of a one-stop platform that lists the best hikes around town *and* the accompanied level of physical activity each hike is.

Version Control: https://github.com/CSCI-3308-CU-Boulder/3308SP21_section022_3

Development Method:

For this application we will use Agile/Scrum as our software development methodology. As we progress in this project, we will discuss components that need to be done and assign tasks to specific people. This will allow for variation in our plans for this project especially given the times we are in. Sprints will be created and completed bi-weekly as of right now and scrum roles will be assigned soon.

Jira Link → https://gitlit.atlassian.net/jira/software/projects/GP1/boards/1

Communication Plan:

Our group will be communicating about the project through text messaging. So far, we have split up the work between all 5 of us and explained to each other who is doing what. Since we are still early onto the project this has not caused any problems and is an easy method of communication, but if required we will set up a discord or slack server with different channels in order to coordinate and organize our workflow properly. As long as our work is divided evenly and we are on the same page about who is responsible for which parts of the project, it will work out fine.

Meeting Plan:

We plan to meet on zoom every Saturday at 9:30am to 11:30am.
Our weekly TA meetings are on Tuesdays at 9:45-10am

Proposed Architecture Plan:

We plan to develop our website using Django and host it to the cloud, using Firebase as our backend server and also including a,Google maps and AllTrails API.

Use Case Diagram

New User

Visit home screen to learn about app

Sign Up

Sign In

Sort available hikes nearest to your location

Sort available hikes with the least elevation gain

Sort available hikes with the least distance

Sort available hikes with the most elevation gain

Sort available hikes with the most distance

Add trail that does not currently exist in database

Share the statistics of a hike with a friend

Use the app on their phone

Use the app on their desktop

Directly compare statistics of multiple trails

View photos of trail

Existing User

Old-age user with Knee Issues