Project 3 – Sprint 1 Planning Document

Group Name: Utiliteam

Team Members: Mikey, Sahil, Viraj, Brian

Please answer the questions below as thoroughly as you can.

How often and by what means will your team communicate about the project?
We will communicate daily about our project through Whatsapp and Discord. We will organize calls 1-2 times a week outside of school to make sure everyone is on the right track.

How will your team make decisions about the project if you disagree?
If a disagreement comes up, our team will first listen to each other's opinions to fully understand each perspective. Upon further discussion, if there is still a disagreement, we will see if a majority of the team supports one side or the other.

How will your team split up the work?
Our team will split up the work into the frontend/backend development. Three people will tackle the backend while one will tackle the frontend of our project. We will clearly define each person's goals and tasks while helping each other complete them if necessary. Each person will have a defined role and will utilize their strengths towards the completion of our project.
Mikey – Frontend Development
- Main screen with Google Map and utility selection/addresses
- User login screen
- Add utility screen
- Review utility screen
- Redirecting user to Google Maps

Sahil – Backend Development
- User authentication, account creation, and forget username/password --> Using Firebase backend service

Viraj & Brian – Backend Development
- Implementing Google Maps API (Maps SDK for Android, Maps SDK for iOS, etc...) for restrooms --> returning nearby utility locations based on current user location
- Designing utility object
- Storing and returning user reviews about a given utility

When you work outside of class, how will your team communicate?
As mentioned earlier, our team will use Whatsapp and Discord to communicate.

What materials/software will you need and how will you get them? You should consider not just development tools but also any major 3rd party libraries or services you might need.
We will be using Visual Studio Code, Android Studio, X Code, Maps SDK for Android, Maps SDK for iOS, Maps Javascript API, Geocoding API.
Most of these API's are part of the Google Maps platform, and they are all free. The software is also free. We will download it from online.

What do you plan to accomplish in your first Sprint?
- Implement one public utility (restrooms) and enable users to find the utility within a certain range of their location.
- Working Google Maps --> markers on map displaying where the utility is located relative to the user.
- User will be able to receive directions from Google Maps on how to get to the utility they desire.
- User can add a new location that a certain utility is placed at --> requires authentication.
- Decide which features to implement in the long run and what technologies to employ --> clean up backlog.

Does your team plan to do any work during Spring Break (April 5 – 9)?
Yes, we plan to do work over Spring Break.

For the next two questions, reference the Scrum presentation given in class, which can be found on Teams.

Who will be your Product Owner during the first Sprint?
Mikey Halim will be our Product Owner during the first Sprint.

Who will be your Scrum Master during the first Sprint?
Viraj Goyal will be our Scrum Master during the first Sprint.

How will your team manage your backlog/user stories?
We will be using Azure DevOps to manage our backlog, user stories, and sprints.