

Team Number: 110-1

Team Name: The Luminous

Team Members: Gregor Tzinov, Chance Martinez, Daniel Winston, Ryan Jones, and Phalgun Taman

Application Name: MapCU

Application Description: MapCU intends to provide interior navigation for CU Buildings, starting out with an emphasis on the engineering center. It will be used to assist thousands of students and community members in finding the fastest way to any specific room. Rather than having students stress when arriving at the engineering center for the first time, MapCU will provide them with the geospatial support they need to get where they need to go.

Although the feats aforementioned are significant and powerful advances in our community's accessibility to classrooms, MapCU will be built in a scalable fashion. Meaning, features such as heat-maps, additional building support, and alternative paths to classrooms can be utilized to avoid excessive foot-traffic. Reporting for incidents in the community could also be facilitated once enough of the campus is mapped, allowing CUPD to more effectively locate and deliver assistance where it is needed. MapCU can be so much more than a map; it's reassurance that you are going the right way.

Vision Statement: To bridge the gap toward having a more comprehensive navigation system for the engineering center as it will provide students and staff members with the shortest path to a specific area.

Version Control: GitHub and git, in order to minimize confusion and more efficiently collaborate, we have opted to create 3 branches instead of 3 repositories as per the Milestone requirements (one for team meeting logs, one for milestone submissions, and one for project code). This will allow ease of access and better organization to fit our MapCU's requirements.

Development Method: Iterative

for(inCSCI3308)

```
{
    initialPlanning();
    PlanningwithRequirements();
    DivisionOfLabor();
    AnalysisDesignImplementation();
    Testing_Deployment();
    //repeat with each feature added, intend to iterate every couple weeks
}
```

Communication Plan: To be supportive and encouraging of others. To offer validation and care, rather than frustration and anger. We will communicate by contacting each other via cell towers. This is accomplished over text and voice. We will also communicate by contacting each other via the World Wide Web, or as it is affectionately called, "The Web". We can facilitate this web-based communication via the popular VoIP software "Discord". Yet at the end of the day, nothing beats face-to-face contact in the physical environment of the "real-world", and will often most often be done on a weekly basis on Saturdays.

Proposed Architecture Plan: Visual Studio C++ iOS and Android, geo-spatial updates via Play/App Store.

Meeting Plan: In person every Saturday from 3 to 4 pm. Location varies. Otherwise via Discord.