

Our project was bouldering related and as the climber of the group, I took the leadership position. I identified the necessary features and came up with user stories for the rest of the group to implement. I implemented the blob detection algorithm to identify the holds of the climbing routes. Since I had the domain knowledge, I also constructed and implemented the pathfinding algorithm. I at least did some work on most of the other application pages.

I wanted to work on teamwork and leadership and I think I effectively did that. Working with teammates who were not familiar with bouldering was a challenge. To resolve this, I constructed user stories and provided example use cases so group members knew what they needed to do and how it was supposed to work. I also took the managerial role, scheduling and directing team meetings. I also developed planning skills for long-term projects. We started development in between semesters, and as a result, had ample time to complete everything we wanted without feeling rushed.

As a group, we accomplished the construction of our application that effectively provides climbing paths for beginner climbers. We tested the app in a climbing gym and performed the path and were able to successfully follow it. We learned how to effectively divide work while leveraging individual knowledge and strengths, filling in the gaps in each other's understanding. We got a lot of practical experience dealing with working on shared code using git. We also learned how to split up a large project into tasks that could be worked on in parallel.

While we successfully completed what we planned on doing, we could have done a better job splitting up the work. As I mentioned, I had all the domain knowledge, so I ended up doing the bulk of the work on the blob detection and pathfinding, which are the main app components. Combined with taking leadership, this ended up being a lot to handle. While the team did a good job with the other tasks, they were mostly smaller implementations that didn't require as much time. If we were to do this again I would try and find some way to bring at least one other group member into the pathfinding and blob detection and share what I knew more effectively. For example, taking the group to a climbing gym and getting them some experience would have been beneficial for the team.