Prabhjot Singh

Professor Annexstein

Senior Design

15 September 2024

Individual Capstone Assessment

After a lengthy discussion, the team and I concluded one idea that my team and I desired to work on. Our idea is called QuickShift which is an app that allows businesses to find individuals to cover shifts that don’t require training. The goal of this project is to make a fully functional app that is both easy to use and powerful for businesses and those looking to work quick jobs. While the scope is largely a web application with a backend, I plan on trying it out on other platforms natively and receiving input from businesses. This is significant to me because I always wanted to pursue a career in full stack applications, and I am excited to work on something that is very marketable. I feel that this application can empower employers and employees by offering both workers and customizable schedules. With this project I hope to use the information I learned through our time at the University of Cincinnati.

Thought University there are many classes I have taken that will help me be a valuable member on this project. I have taken classes like Data Structures (CS 2028C) to better understand how to manage large-scale data and organize it. Classes like Software Engineering (EECE 3093C) allowed me to work with a team and deliver a small-scale app. In this class I got to go through the full software development lifecycle. Lastly, a class I am taking right now is called User Interface (CS 5167). This class will be very helpful when designing an interface for people that are not as technical. This will be a huge help when creating an app for the public. Although classes are a major help when creating this app, my COOP experience will also be valuable.

For my COOP experiences I worked as a Software Developer at both Siemens and London Computer Systems. At both companies I learned how the content I learn in class is used in the real world. I also learned how to create complex apps and work with others on an already established code base and sometimes I even created a new code base and explained it to others. Other skills I learned are debugging, testing, project structure, project management, and implementing large changes. During this project I plan on using the knowledge I learned to deliver a robust project. COOP has taught me how to make software that is production ready and satisfies the needs of the public.

This project is something I am very excited and motivated about. Firstly, I get to work with modern web technologies which is something I really wanted more experience in as it is used everywhere. I also aspire to be a business owner someday and creating something that will help small businesses fix staffing issues is something I can see leaving a big impact. I plan on designing the app first in Figma and getting lots of input from my team and then some small business owners, then I plan on starting with the code. With this I plan on getting approvals from small businesses and people that would like to work quick jobs. Success for this project will be determined by the satisfaction data I collect on our small-scale demos and from the knowledge my team and I gain. In terms of my contribution, I will be measuring it by how the app looks and feels since my focus will be frontend.

This project will be something that brings together everything I have learned throughout my academic career from both my COOP and my classes. Creating this project won’t only be necessary from an assignment perspective about also as proof to myself that I have truly gained from my university experience. This project will be something I can show to employers and discuss interviews. I can even use this project as educational experience to create more complex future works. I am looking forward to creating a fully functional application with a team of individuals who are both passionate and talented. I hope to deliver a strong and robust project and learn along the way.