

Mr. Speice

Independent Study Mentorship II

18 January 2021

Detailed Design Process

Assessment 13- Mentor Visit Assessment

Profession: Software Developer

Location: Virtual Platform via Discord

Date: 17 January 2021

Time: 10:59 A.M. - 11:40 A.M.

Assessment:

No large application thus far has been successful simply by starting at the development process. Instead, every application has gone through a rigorous design process to determine a variety of details within the application ranging from design criteria to functionality to the deployment process. In order to ensure that the final product will have an end to end plan in place so that all nuances and issues will be addressed, it was imperative to go through the thorough detailed design process. This past weekend, I had the opportunity to go through the detailed design process with my mentor, Mr. Trey Blankenship, in order to develop to ensure that every potential challenge is addressed for the minimum viable product.

To initiate the brainstorming process, it was important to address design specifications. Knowing the target audience were machine learning engineers on a commercial scale, it was important to address technical specifications such as responsiveness, accessibility, and scalability. From this, important information about the software design process was gained on the technical side of things because through addressing these specifications, the architecture, frameworks, and deployment platforms were decided. This serves to be extremely important both

for the final product in the sense that there should be less technical difficulties in the future because the overall project will be designed around these platforms and it also is important in the future as a software developer because these specifications will need to be decided for every project that is done, small or large. Additionally, the design specifications allowed for me to be more cognizant and learn more about the newest technologies offered by Amazon Web Services, something will be instrumental especially as Amazon Web Services starts to grow and will be a helpful tool to know when joining the software development industry. On the entrepreneurial side of the project, it was important to consider the sustainability of the project over a long period of time in terms of funding. To address this, it was important for some source of income to keep the project afloat via luxury features such as a coin system that can be found in Reddit. Through determining this, it served as a valuable experience because not only were technical viewpoints but also ensured that the product would have a model of longevity, something that any successful product should take into account. In essence, through determining the design criteria, both technical and entrepreneurial aspects of the product have been determined end to end.

To continue the conversation, we discussed a deployment architecture through creating a deployment diagram (as shown on page 3 of the mentor visit notes). This would ensure that all the code that is written has a place in the Amazon Web Services frameworks. This serves to be important because it makes the deployment process much easier and saves time in the long run because it ensures that all the code that is written has a place within the Amazon Web Services framework. Additionally, drawing deployment diagrams is something that is widely used within the greater software development industry and therefore by gaining these skills early on will be helpful in the long run when making more full stack applications.

To conclude the discussion, it was necessary to discuss the extensibility of this application because an application with little to no extensibility has no future. To ensure that this platform has a future, it was important to scrape ideas from other successful platforms like the upvote/downvote feature from reddit and apply it onto the final product. This served as an important technopreneurial viewpoint because it involved both an entrepreneurial side with determining how this application can have a future and be extended along with a technology aspect to it to determine the technical details of these features. Through this, the final product has developed a potential for a wider impact.

Through going through these three portions of the detailed design process the final product idea has now been further developed and all the issues and nuances have been addressed. Future steps regarding the product would be to begin developing the minimum viable product which can then be built upon. Through doing this, the basic product can be presented at the very minimum with larger visions that can be built on top of the minimum product.

[Mentor Visit Notes](#)