Reflection Paper

Doing the Air-NWKTC full stack project was a great opportunity for me to enhance my skills in full stack development. I learned a lot of helpful skills that I wouldn't have learned if I hadn't created this project. I delved deeper into backend aspects like server management, routing, and SQL databases. I learned how to connect my iOS frontend to my backend without prior knowledge. I was able to fetch data back and forth from my SQL database to my frontend using the right server and routes.

At first, I didn't know where to start, but I figured it out somehow. I started by creating tables in my SQL database, then set up my server and routes. After that, I connected my frontend and implemented the logic to make the desired functionality work. I think I did great in my folder management. I separated all the files into their own folders for a clearer and cleaner structure. For my backend routes, I created separate files for each route, such as room, user, and booking. This way, it is not only cleaner but also scalable.

A part of the project that took me a lot of time was making sure I was sending the right data and format to my database, as the data has to be exactly correct for it to work. I had some data that did not match, and it took me a lot of time to fix it. Another challenging part was the routing. At first, I struggled to set up my routing correctly so that my frontend and backend communicated on the same route, but after a while, I gained a good understanding of how it works, and I didn't have problems with it anymore. I was able to fix most routing problems quite easily. Postman was really helpful in identifying some routing problems. Another issue was implementing logic to get, post, put, and delete data. I ended up using more intricate logic than needed to implement the desired functionality.

I find myself to be the person who always goes overboard when doing projects, which is why some of the functionality I wanted required intricate logic. So far, I think I did well in structuring my files and functions. If there is any part of the application that I want to improve, it is probably the iOS backend design. I didn't have time to add the design that I wanted, so I just went with the default layout.

Now that I have a taste of what full stack development is, I kind of want to pursue it further. I want to learn more about backend, frontend, and development operations. It is really cool and fun to be able to build an entire app or project. I want to have the necessary skills to be a full stack developer, so I want to learn all the components as much as possible. Too bad I can only choose one path in my second year. LOL