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#### Final Reflection:

These past two weeks have been filled with stress and enjoyment as I embarked on a journey to finish the school year with a full stack project.

The challenges encountered served as a climb up a steep mountain so that I can enjoy a view called “success” in this cloud and crypto program. We were given instructions on what to create but we had autonomy on how to go about it. And for my project I chose to use a dark theme for the web app and a light theme for the ios app.

My project works as described;

The Admin Panel/WebApp connects to the Server followed by a login process through MetaMask for authentication.

Classroom Addition and Synchronization:

The Admin adds a new classroom via the WebApp; this information is sent to the Server, which then immediately updates the available classroom list shown on the iOS App available to the Instructor.

Classroom Booking:

The Instructor, through the iOS App, views and books available classrooms. The booking data is then transmitted back to the Server for update.

Booking Cancellation and Classroom Deletion:

Alternatively, the admin can cancel existing bookings or delete classrooms via the WebApp. The Server processes these changes and communicates the updates back to the iOS App, ensuring both the Admin and the Instructor see the current status.

This sequence diagram ensures that all stakeholders in the system have up-to-date information relating to classroom availability and booking statuses, illustrating a clear and organized workflow of data between components.

#### Process

In order to achieve this, I created the Web application using angular utilizing corona bootstrap to create the user interface and admin panel.

I then created the IOs application in swiftUI ensuring that I pull the data from my express server which is connected to the database(mysql)

### **Challenges**

Although this project was fun, it was filled with challenges, especially the fact that we had to create a full stack application in two weeks, and doing it solo, that was extremely hard.

The few areas I found challenging were connecting mysql databases to the express, as everything had to match and a single misspelling would lead to the entire project to not work. And this was translated into all aspects of the project from the IOs app to the Web application.

The other challenge was pushing data to Github. Although we have worked with github, there are areas that I still find challenging and in this project I saw some of the weaknesses I still possess in this line of work.

### **Lessons**

Generally speaking, my project was fun and in a way reinforced the choice I made to embark on this academic journey. I found it fun to find solutions to the challenges that I encountered along the way. This has greatly improved my skill base and I am sure I can make great strides in this industry.

### **Conclusion:**

In conclusion, this final is a test to show our skill progression throughout the year, and I am grateful to have been a part of this class. I look forward to next year when I get focus in on area so that I can develop more skills to make it in this industry