**Individual Assessment**

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**Part A:** I contributed majority of the functionality to the project. Me and another group member Chris did literally all the code from front end to backend as well as manage the database. After the fall semester the project was in a rough state, so I rewrote the entire project using best practices and fixing all issues the project had. Some of the issues were clumping large amounts of code into a few files so no separation of code which made it difficult to traverse the code. Weak implementation of axios for the frontend to access the API. I also incorporated all the suggestions that our advisor gave us from the fall semester such as using an MVVM design pattern and extending our functionality. I also added a library to hash passwords which would improve our user’s security when they are saved into our database which I found with some research. I also added a React Router so that the URL would be unique, based on where you were at in the application. I also improved the CSS throughout the UI.

Some of the other key features I worked on was I created the entire Sign up and login pages as well as all the features that go along with them. I created the Add, Edit, Delete requests for each item in the users list. I also created a Profile page for the user to update their information as well as a logout feature. I think I was successful at doing the most I could to have a successful project. I learned best practices for navigation and learned a lot from fixing small bugs throughout the application as well as implementing suggestions that the Console output from not strongly typing some things. Some of the obstacles were not actually getting an encryption method to work but we were successful in finding an alternative by hashing the user’s passwords. We also were successful in having an efficient and fast application that could make API calls access a database and use all standard REST commands.

**Part B:** We were able to accomplish everything we set out to complete in our original plan as well as adding a lot of other functionality to the project. I learned that group work requires equal distribution of work which didn’t seem to be the case regardless of our efforts to include everyone. The aspects of teamwork that weren’t successful was people willing to contribute to the project even if it wasn’t directly in the code. For example, while me and Chris were writing all of the code for UI and functionality etc., we tried to get our group members involved by trying to show them some basic CSS and see if they could come up with a UX design for the project and possibly implement that design. I even created the CSS files with some very simplistic CSS to get them started. However, not only were they not willing to learn CSS they wouldn’t even go as far to come up with a color scheme or basic UX design even if it was just drawn in Microsoft Paint and we could manually translate it based on their design.

I think I put far more effort than my group besides Chris who I believe did an equal amount of work as I did. I would give Chris special recognition because he went into this project not knowing React, Python, or CSS really and did the research to figure out how to aid in the project. Chris also did a good job of being a team leader by making sure everyone in the group attended group meetings and made a regular schedule for us to follow. Chris also tried to get the other group members involved but they didn’t put any effort to help in the project so if you look at the commit history on our repository you can see that all the work is me and Chris. I think it would’ve been helpful to hold group members more accountable for assisting in the project which could’ve improved the project. However, I did learn a lot since me and Chris had to learn how to create everything on our own and I think I improved my knowledge and skills with React, Python, APIs, as well as learned about Azure which was a critical component to our application.