Individual Capstone Assessment

This project is about creating a product that showcases everything I've learned during CO-OP and during my time at UC. My project is a web application that enables the user to write to a database. I have worked with web-development extensively on CO-OP and going forward I will likely do more work with databases if I stay within this position at my company. I have taken a database course during my time at UC but the material covered was mostly introductory and did not teach me everything there is to know so I will also be using this project to expand and reinforce the knowledge gained during school. Another thing of importance for me is demonstrating and developing my abilities in project and time management. My Software Engineering and ENED courses were some of my first experience is project development and continuing to improve those skills will be paramount in my career going forward. One of the most important aspects of this project for me is proof of my abilities. My resume admittedly is lacking in concrete projects and it's always good to have more experiences to pull from when in an interviewing process.

When thinking of the school work that I have done that will help me while working on this project I think of 4 classes in particular. My Software Engineering and ENED classes developed my programming abilities further but most importantly I was a part of a small group tasked with designing and developing a product while taking these classes. I will use the project management and time management skills gained from these experiencing constantly over the next 8 months. My Computer Networks class gave me a base understanding of how networks operate and laid a foundation for my web development knowledge that was later enhanced on CO-OP. Finally, my Database

Design/Development class will act as my only formal education with databases as I work on this project. The knowledge gained from this class will help extensively during the planning and design processes as it taught me the structure of databases and will allow me to design the web application with the structure of the database in mind.

This project will also act as a checkpoint for all of the improvement I have made from CO-OP. Most of my time spent while on CO-OP was spent learning and developing web applications and webpages. When developing the front-end and back-end of the application I will use the skills while gained on CO-OP extensively. While on CO-OP I commonly work alongside databases. Even though I did not develop them personally, furthering my understanding of databases on this project will improve my understanding going forward in my career. Once again one of the most important skills gained from CO-OP for this project will be the project and Time Management skills that I enhanced while working.

I have a few different aspects that will be a source of motivation for me going forward with this project. First, I think this project could be useful to those around me at my internship, thus I will be motivated in making the final project as complete as possible so that I can in turn present my findings and experience to my managers and supervisors and discuss future developments of my team and company. As this project is so closely related to the work I have done on CO-OP I will be eager to prove all of the knowledge and skills I've gained while interning for the past year and a half. Another source of motivation will be the satisfaction of building a product completely from the ground up. While not having any teammates will limit the project in various ways there will definitely be a sense of accomplishment overcoming those hurdles and knowing that

everything accomplished on this project is due to my effort alone. With this mindset and I am excited to knock this project out of the park.

My preliminary approach to designing a solution will be to layout all components needed and designating a step by step plan of what to implement and in what order so that each component of the application will work as expected. For the front-end of the web app I expect to have a user-friendly user interface for managing databases.I want an efficient back-end for the application that will handle all functions expected from an end user. The application is also expected to be able to work with any existing database structure allowing a hypothetical customer to use the application to manage their existing databases instead of having to build one from the ground up within my application. I will self-evaluate by performing a review at the end of every week making sure that I am on schedule and the work I completed that week fits the expectations set out at the beginning of the project. I will be satisfied with my work when all three components have all features desired and work in an intuitive manner. I will test this myself and get second opinions from qualified personnel ensuring the application is intuitive to use.