Asa Brown

CS-499 | SNHU

August 3rd 2025

1. Briefly describe the artifact. What is it? When was it created?
   1. This Artifact is a Fullstack Web development project I worked on in CS-465, a course I took prior to this one. This one focused on making a customer facing page, a single-point admin page and a database to hold user and trip information.
2. Justify the inclusion of the artifact in your ePortfolio. Why did you select this item? What specific components of the artifact showcase your skills and abilities in software development? How was the artifact improved?
   1. Show casing fullstack development can show that I have some knowledge and experience in frontend and backend development, which is a very desired skill within the career field. Being able to adapt to different roles based on skill-level improves the chances that I will land an interview and subsequently a job. I selected this artifact because it’s one of the few projects I worked on that involve databases and I saw an area of improvement.
3. Did you meet the course outcomes you planned to meet with this enhancement in Module One? Do you have any updates to your outcome-coverage plans?
   1. I feel that this enhancement does meet course outcome #4; however, one of my previous enhancements has already met this outcome. I currently do not have any updates to my course-outcome plans
4. Reflect on the process of enhancing and modifying the artifact. What did you learn as you were creating it and improving it? What challenges did you face?
   1. When I was thinking of ideas of how to enhance the project, I needed to keep my head wrapped around how I could improve the database. It was tough, because there are two and each are small and don’t contain a lot of information and the instruction for the project was on rails, so understanding what I could change without unintentionally breaking the program was something I also needed to consider. Additionally, interacting with the databases required postman or MongoDB Compass, so I was struggling to figure out ways to enhance the project since the third party programs didn’t really seem to be a good entry point. I decided something should be done with the efficiency for how information is searched through the database, so I started with trips, only to find that those are already indexed by name and code. When checking users though, there weren’t indexed at all, which seems minor at first, but when you have thousands of users visiting your sites and one comes across an issue with their account, they may need an admin to parse through the database to view their information to resolve an issue, and so that was the enhancement I made. I indexed the user by their email address. User’s don’t have an ID associated with them, so in the event this program was made more scalable, that would be something to implement.