Abdulrahman Al-Nachar

CS499 / 5-2 Milestone Narrative

**Briefly describe the artifact.**  
The artifact I chose is my Travlr Getaways web app, which I first built in CS 465 using the MEAN stack. It was designed to manage and show travel data through an API connected to MongoDB. For this enhancement, I worked on the backend and added new authentication, rate limiting and security features to make the app safer and more reliable.

**Justify the inclusion of the artifact in your ePortfolio.**

I picked this project because it really shows my skills in building and improving a full-stack app using modern database and security practices. The updates I made, like adding JWT authentication, password hashing, and role-based access, rate limiting, show how I can handle backend logic and protect user data. Now the app doesn’t just manage trips, it also makes sure only the right users can access them.

**Did you meet the course outcomes you planned to meet with this enhancement?**

Yes, this enhancement connects directly to Course Outcome 5, which focuses on building a security mindset and protecting data. The changes I made helped make the system more secure and easier to use. I don’t have any updates to my outcome plan since this enhancement already meets the goals I set for it.

**Reflect on the process of enhancing and modifying the artifact.**  
While working on the database, I learned how to set up JWT authentication the right way and protect API routes. The hardest part was getting the role permissions right so regular users couldn’t reach admin-only features. Fixing that helped me understand how security ties into full-stack development and how the backend works together with the frontend to keep everything running safely.