**Briefly describe the artifact. What is it? When was it created?**

This is the Travlr Getaways project from CS 465 Full Stack Development I. This is a web application that is meant to allow users to browse and select travel bookings. The web app was built using the MEAN stack.

**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?**

This project was a relevant inclusion for the ePortfolio given it displays full-stack web development, database management, and user interface design. We improved the project in a few areas that were revised from my original document in week one. I implemented various sorting parameters and real time updating for those applied filters for trips.

Specially, users can now sort trips by price, duration, rating, and alphabetical order. Beyond this, you can switch between ascending and descending order. I also placed an average trip price calculation that will update automatically as new trips are added. The promotes user convenience and transparency. Code was refactored to be more scalable. Adding new features to the site is streamlined and consistent now. The UI was further improved to adjust for the additional sorting menus.

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

Outcome 2: Develop clean and maintainable code.

Outcome 3: Design and implement software solutions.

Outcome 4: Apply best practices in software development.

Outcome 5: Analyze and incorporate user needs into software solutions.

**Do you have any updates to your outcome-coverage plans?**

No significant updates are needed to the outcome-coverage plans, as the enhancements made to the artifact align well with the planned course outcomes. The updates successfully addressed:

Outcome 2 - Clean and maintainable code practices.

Outcome 3 – Practical and relevant additions like sorting and average price calculation that improve the user experience.

Outcome 4 – Use of best practices for software design.

Outcome 5 - The user experience was enhanced by addressing user needs. These sorting options and other features are present on similar shopping-based sites.

**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?**

Through the process of this enhancement and the previous two I have certainly learned a lesson in balancing simplicity and functionality. This final milestone in particular was incredibly iterative with each change requiring me to start up the web application through PowerShell and ensure the update was properly implemented. I wanted to also implement a dark mode, but due to time constraints, that feature did make this submission. The feature is mostly implemented but I have some troubleshooting to do to figure that out.