**Narrative for enhancement one**

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

The artifact used in enhancement one is the Travlr GetAways web application, which was developed in February of 2024. The web application was developed in a previous project and while the web application met all of the requirements for the project, it was still far away from meeting the client requirements. Once the web page is fully completed, admins should be able to use CRUD methods to add, edit, and delete trips, rooms, meals, and more from the admin facing page and those changes should be reflected on the customer facing page. Additionally, login, registration, and checkout features should be implemented on the customer facing web page as well.  Prior to any enhancements the web application has an admin page and a customer facing web page with the only edit-able item being trips. Admins can login and add, edit, or delete a trip and those changes are reflected in the database and on the customer facing web application.

**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?**

As previously mentioned, the artifact used for this enhancement will be the Travlr GetAways web application. This artifact was recently developed but still needs a lot of work to bring it up to standards with the client's wireframe. For the software enhancement portion of this artifact 'rooms' will be added to the admin page so that once the database is implemented (this will be done in a future enhancement) admins are able to add, edit or delete rooms in addition to trips. We will be adding a rooms link to the navigation bar which when clicked will list all of the rooms currently in the database and we will be adding add, edit, and delete pages for the admin. While the enhancements are purely visual for this portion of upgrades, they are necessary for the final product and will be fully functional at the end of all three enhancements. Building the web pages for displaying rooms, edit rooms, add rooms, and adding the link for rooms to the nav-bar showcases the ability to work across multiple languages using MEAN stack development practices to build an intuitive, easy to use SPA (singular page application) with client requirements prioritized. Additionally, the following course outcomes and goals are met:

\****Demonstrate an ability to use well-founded and innovative techniques, skills, and tools in computing practices for the purpose of implementing computer solutions that deliver value and accomplish industry-specific goals***

This course outcome was met by implementing the admin rooms features to the SPA.

\****Develop a security mindset that anticipates adversarial exploits in software architecture and designs to expose potential vulnerabilities, mitigate design flaws, and ensure privacy and enhanced security of data and resources***

This course outcome was met by ensuring that crucial elements of the database, such as add edit and delete functions are only available to users that are logged in with authorized credentials.

**Did you meet the course objectives you planned to meet with this enhancement in Module One? Do you have any updates to your outcome-coverage plans?**

**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?**

Planned course objectives were met in this enhancement as described above. Updates to the outcome-coverage plan involve adding the functionality to add, edit, and delete methods as well as implementing the database so that the changes are reflected in real time. Additionally, changing the data structure for rooms on the customer facing web page so that the data from the database is reflected instead of the html static web information that the customer page is currently pulling from. At the end of all three enhancements the rooms portion of the web application will be fully functional on the admin page and reflected on the customer face. These enhancements bring the project one step closer to meeting client requirements for a completed project. It was very beneficial to have the trips already developed as the trip components were a wonderful guide to use when developing rooms. The code for trips was clean, easy to read, and easy to re-factor for rooms. This goes to show just how important it is to create easy to read, easy to edit and easy to follow code as the trips portion initially took much more time than the rooms portion did. Adding in other elements such as meals, and news will be a breeze as well. As far as challenges go, there were no real challenges in this portion of enhancements as far development goes. Initially, there was some issue with room-cards loading after clicking the 'rooms'(list-rooms) link in the navigation bar but the issue was resolved after adding a path for list-rooms in the index and router file for the admin portion of the application.

See the below screenshots for visual documentation of the changes implemented in this enhancement.

NAVIGATION BAR BEFORE EHNANCEMENT:

A screenshot of a computer

Description automatically generated

NAVIGATION BAR AFTER ENHANCEMENT:

A white background with a black border

Description automatically generated with medium confidence

After logging in and clicking the Rooms link on the navigation bar, the following page renders:

A screenshot of a computer

Description automatically generated

If user presses edit the following page renders:

A screenshot of a computer

Description automatically generated

If a user clicks “Add Room” the following page renders:

A screenshot of a computer

Description automatically generated

Previously admins were only able to add, edit, and delete trips. Following this software enhancement the foundation to maintain the rooms in the database is now available as the pages to make those changes are now rendering for the admin. As soon as the database is integrated in following enhancements, the admin will be able to easily add, update or delete rooms the same way they could manipulate trips prior to any enhancements.

The following components (A folder with an HTML, CSS, and a .ts file) and file were all added to complete this enhancement:

**C:\Users\jessi\travlr\_final\travlr\travlr-admin\src\app\add-room (component)**

**C:\Users\jessi\travlr\_final\travlr\travlr-admin\src\app\delete-room (component)**

**C:\Users\jessi\travlr\_final\travlr\travlr-admin\src\app\edit-room (component)**

**C:\Users\jessi\travlr\_final\travlr\travlr-admin\src\app\room-card (component)**

**C:\Users\jessi\travlr\_final\travlr\travlr-admin\src\app\room-listing (component)**

**C:\Users\jessi\travlr\_final\travlr\travlr-admin\src\app\services\room-data.service.ts (file)**

The following files were edited for this portion of the enhancement:

**C:\Users\jessi\travlr\_final\travlr\travlr-admin\src\app\app-router.module.ts** (Lines 4,7,11,18 and 24 were added)

**C:\Users\jessi\travlr\_final\travlr\travlr-admin\src\app\app.module.ts** (Lines 12,13,14,15,16,17,26,28,30,32 and 46 were added)