My third artifact is the Databases Travlr folder enhancement from CS 465 Full Stack Development. This application used HTML and JavaScript code to be routed through API calls in Postman and MongoDB and display trips based on the user login to add or edit. It could display all this information in a single-page application easily and automatically update the website. This project was worked on throughout January and February at the beginning of 2025. The artifact is composed of different classes and folders in Visual Studio Code, only some are edited to include the ‘delete’ button.

I selected this item because it showcases security and databases through the creation of a single-page application with the authentication of a user. During the creation of this project, I experimented a lot with the code and followed the instructions given to make sure all code was running successfully. I took a while to fix any errors that came up. One issue was logging into the website with the username and password registered through Postman. For my enhancement, I added an extra button to the features of the trip’s website, the delete button. This will allow a logged-in user to delete a trip card after it is added only if they are already authenticated. After temporarily fixing the issue with the login button I was able to work on implementing the button.

Some of the course outcomes I have met in this module are evaluating computing solutions to solve problems using algorithmic principles and computer science practices and having a security mindset to help mitigate any design flaws. However, I also applied strategies relating to collaborative environments in decision-making, delivering written and visual communications, and using innovative techniques and tools for computing practices. The specific skills I demonstrated with this enhancement are the implementation of JavaScript language in MongoDB and modification of the single page application showcasing design and development of Travel cases implemented by the user through Visual Studio Code and Postman.

A screenshot of a cellphone

AI-generated content may be incorrect.While modifying the artifact, I learned more about each class that required edits for implementing and checking the trip code needed to delete the trip card by the user. I ran many tests to have the login working, even so, I was only able to have it work a couple of times before I kept getting more errors. I was able to implement the delete button and take a screenshot on my first trial run but had to go back and fix the login issue with the user authentication.

I added a folder called ‘delete-trip’ into my travlr folder to contain the HTML, spec.ts, and ts files. I also made changes to the trip-data.service.ts, app-routes.ts, trips.js, index.js, and a couple of trip-card.component files to implement the API routes needed to make the delete button work. I based my code on what was previously used for both the ‘add-trip’ and ‘edit-trip’ folders. Therefore, connecting the route called by the user to JavaScript and having it reflect on the HTML in the single-page application. I used PowerShell to start the application and registered a new example user through Postman.

As mentioned before, the registered new user was unable to work, therefore, I checked the login folder and authentication to fix the 404-error code I was receiving. The issue seemed to originate from the Base URL in one of the classes, after a couple of changes I had it working but still led to login issues. I was able to make a couple of modifications to the Delete button HTML on the Trip card list and demonstrate its usage by deleting a couple of trip cards before the issue appeared again.

A screenshot of a computer

AI-generated content may be incorrect.

There appears to be 6 trip cards on the first image, but using the delete button while logged in with credentials allows the user to only have 4 trip cards as shown:

A screenshot of a computer

AI-generated content may be incorrect.

During my research of this component, I was able to understand more about each class and how the routes connect to allow the user to run commands on Postman. I covered all outcomes during this enhancement as it took longer to fix than the others and used feedback from the previous professor to improve upon some features and bugs. I will continue working on the login authentication issue, but the security mindset outcome is still implemented as the user is unable to add, edit, or delete a trip without the login feature keeping all trip cards safely stored.