CS 499

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Module Four Narrative – Algorithms and Data Structures

In my previous course, CS 465: Full Stack Development I, I took a static vacation booking website and turned the Travel section into a full-stack application using the MEAN stack. On the customer-facing side, users can view the travel packages that are available to them. These packages are pulled from a database and rendered into a web page for the user to view. A single-page application allows administrators to add, modify, and remove available travel packages. I decided to change the Room section of the website into a full-stack application similar to the Travel section.

For this enhancement, it was necessary to create a new data structure to hold the data for the rooms. This includes each room’s code, name, price per day, image link, and description. I created the data structure by taking and modifying the data structure used by the trips in my project since it was similar.

Currently, the data is stored in two files: *data/rooms.json*, and *app\_admin/src/app/data/rooms.ts*. The data from these files are retrieved from the customer-facing website and the single-page application, respectively, to display the room data for the user. Once the next enhancement for this project is complete, the data will be stored in and retrieved from the MongoDB database.