#### **Artifact Overview**

**Title:** Travlr Getaways Web Application  
 **Original Course:** CS-465 Full Stack Development  
 **Created:** Spring 2025

Travlr Getaways is a full-stack travel booking application built using the MEAN stack (MongoDB, Express.js, Angular, Node.js). It allows users to browse, add, update, and delete travel trips. This artifact was originally built with static JSON files before being refactored to use a full MongoDB backend.

#### **Justification for Inclusion**

I selected this artifact for the databases category because it demonstrates my ability to design and integrate a real NoSQL database using MongoDB and Mongoose with an Express backend.

Enhancements I made:

* Replaced static data with a fully functional MongoDB database
* Defined a Mongoose schema (Trip) with validation rules for required fields
* Built RESTful API endpoints (GET, POST, PUT, DELETE) to interact with the trip data
* Tested data interaction through Postman and Angular forms

These enhancements show my ability to work with schemas, handle user input securely, and connect a frontend with a live database. It aligns with course outcomes related to developing real-world solutions using modern data systems.

#### **Enhancement Reflection**

By implementing the MongoDB backend, I learned how to build and test a database-driven application using full-stack JavaScript technologies.

Challenges included setting up validation for trip fields, managing API error responses, and syncing changes between the frontend and backend. I resolved these by using Mongoose’s built-in validation and setting up meaningful error messages on the API.

This enhancement helped me understand the full cycle of data: from client-side forms, to backend endpoints, to MongoDB storage. It also reinforced the importance of data modeling, validation, and testing.