CS 465 Module Six Assignment Guidelines and Rubric

Overview

The final part of the project involves using an Angular Command Line Interface (CLI) to build components and a data service for the client-facing front-end Single Page Application (SPA). In this assignment, you will design and build an SPA that will render a client-based web page using Bootstrap CSS, with admin features built in Angular with reusable UI components and logic. Angular offers a host of fully integrated tools to facilitate the build. Once the application is complete, you will test the functionality for displaying and editing trips.

Review the Project Guidelines and Rubric for this course as a refresher for the SPA requirements for Travlr Getaways' web application.

Prompt

You now have a working full stack application that serves the customer! Now it's time to develop an SPA for your client that will produce rich functionality for administering the client database. You will create an add form for trips. In testing, if you add a new trip you should see it in the database, in the trip cards, and on the Express Public website.

Follow the instructions in the **SPA** section of the CS 465 Full Stack Guide and address the following:

- Develop the Angular application structure using TypeScript, HTML, and CSS. Specifically, you will need to:
  - Develop the Trip list component.
  - Refactor the Trip logic into a Trip card component.
  - Develop the Trip data service to interact with the API on the Express backend.
- Retrieve and display a list of trips. Select one trip and edit it by updating its values and saving. Code the behaviors for:
  - POST
  - GET
  - DELETE
  - PUT
- Add appropriate CRUD methods to the API backend.
- Test Angular in the browser and verify the RESTful API endpoints using Postman.

What to Submit

Submit the updated travlr.zip zipped file folder. In addition to the zipped file folder, you must submit the following screenshots as images to Brightspace: (1) the Card Listing showing an additional trip which you added, (2) the Edit screen, and (3) the Update screen.

Please note: You will "commit" or "push" your local Git repository module6 branch to your GitHub repository. This procedure will become second nature to you as you move through the course modules. In the end, you will have a full stack web application with branches that represent key stages of building a full stack application leading up to full project completion.

Module Six Assignment Rubric

Criteria	Proficient (100%)	Needs Improvement (70%)	Not Evident (0%)	Value
Angular	Develops the Angular project structure	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include improving integration with API backend	Does not attempt criterion	30
Requests to API Server	Creates the Trip class and services to make requests to API server	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include additional trips	Does not attempt criterion	30
REST Methods	Creates additional REST methods to support add, update, and delete	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include adding routes to the new method and coding the controller methods	Does not attempt criterion	20
Functional Testing	Tests the Angular Trip components using	Shows progress toward proficiency, but	Does not attempt criterion	10

	mock data	with coding errors or omissions		
End User Testing	Runs the admin SPA with functionality according to the software requirements	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include addressing errors to access the API to retrieve and send data or errors in the HTML forms	Does not attempt criterion	10
			Total:	100%