Technical Documentation for Item Creator

Drawing from my experience as a merchant assistant at Academy Sports + Outdoors, I set out to enhance inventory management through a tech-driven solution. My role within Academy Sports + Outdoors has me creating and managing the item creation process using slow and aging software. My project combines an Angular.js web app running on a Tomcat server, linked with a Spring Boot server on AWS EC2, and a local Spring Boot app managing a MySQL database. This setup facilitates quick item creation and retrieval, aiming to boost productivity. Future iterations of this project will involve migrating to MariaDB for cloud-based storage allowing my EC2 server to conduct all CRUD operations, eliminating the need for a local Spring Boot application. Also, I plan on hosting the web app on AWS for increased accessibility. Ultimately, the goal is to simplify inventory processes and streamline operations.

The Angular.js web app makes an API call to the EC2 server, named data in the GitHub repository, by making a GET request at http://ec2-3-144-47-72.us-east-2.compute.amazonaws.com:8090/item/welcome. The server responds with the company’s slogan, the web application displays the data contained in the response in the home page of the application. The web application also makes a GET request to the local server, named assign in the GitHub, to gather all items, the server finds all items from the items database and responds with a JSON containing all the items, the web application breaks down the JSON and displays all items on the form page. The web app can also make a PUT request to send a new item data to the local server which will persist the item into the MySQL database.

SQL Database

Response

Response

Request

Request

EC2 Spring Boot Server

GET (WelcomeMessage)

Local Spring Boot Server

GET (AllItems)

POST (AddItem)

Web Application

GET (WelcomeMessage)

GET (AllItems)

POST (AddItem)

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