Project Overview: Scenario and Review Criteria

Skills Network

Project Overview

You will have the chance to practice and put your skills, knowledge, and abilities to use Node.JS & Express.JS by developing Online Book review application in your final project.

FINAL PROJECT SCENARIO

In this project you will assume the role of a back-end developer working for an online retailer selling books. You have been tasked with developing a server-side application that stores, retrieves and manages book ratings and reviews.

Your server-side application is required to provide the following features and capabilities to allow users to:

- Retrieve a list of all books available in the bookshop
- Search for specific books and retrieve their details based on the book's ISBN code, author names and titles
- Retrieve reviews/comments for specified books
- Register as a new user of the application
- Login to the application
- Add a new review for a book (logged in users only)
- Modify a book review (logged in users can modify only their own reviews)
- Delete a book review (logged in users can delete only their own reviews)
- (Multiple users) Access the application at the same time to view and manage different book reviews simultaneously

As is the case with most software development projects, different people in the team work on different parts of the application. Another front-end developer in your team is working on the web-based client-side application that will communicate with your server-side application using REST. Therefore your job is to implement your server-side application as a RESTful web service. A software architect on your team has written the skeleton code for your server-side application using Node.js and Express.js.

To complete the project you will fork the skeleton code into your own repo, clone it locally into your development environment, and develop the code further to implement the CRUD capabilities listed above as HTTP methods in your Express server and test them using Postman. You will also implement Session and JWT authentication to allow only logged in users to perform certain operations. For your reference, this application comes preloaded with all of the book information.

Furthermore you will need to enhance your code using Promises, Callbacks or Async/Await functions to allow multiple users to interact with the application simultaneously and not have to wait for each other's operations to complete.

Evaluation Criteria –30 marks total

Please take the particular screenshots for each particular task for your peer review as mentioned in the lab instructions. Your peers who are also completing the course during the same session will grade this project. This project carries 30 points toward your final grade and is weighted as follows:

General users:

Task 1: Get the book list available in the shop.**- 2 Points**

Task 2: Get the books based on ISBN.**- 2 Points**

Task 3: Get all books by Author. **-2 Points**

Task 4: Get all books based on Title **- 2 Points**

Task 5: Get book Review. **- 2 Points**

Task 6: Register New user – **3 Points**

Task 7: Login as a Registered user **- 3 Points**

Registered Users:

Task 8: Add/Modify a book review. **- 2 Points**

Task 9: Delete book review added by that particular user **- 2 Points**

Node.JS program with 4 methods:

　　Use Async/Await or Promises with Axios in Node.js for all the four methods.

Task 10: Get all books – Using async callback function – **2 Points**

Task 11: Search by ISBN – Using Promises – **2 Points**

Task 12: Search by Author – **2 Points**

Task 13: Search by Title **- 2 Points**

Task 14: Submission of Project GitHub Link **- 2 Points**

Next Steps

Be sure to read the Overview before starting the step-by-step instructions.

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Changelog

Date	Version	Changed by	Change Description
15-09-2022	1.0	Sapthashree K S	Initial version created
10-10-2022	1.1	K Sundararajan	Updated instructions
2022-11-15	1.2	K Sundararajan	Title & instructions updated based on review
2022-11-18	1.3	K Sundararajan	Grammar corrections based on Beta testing feedback