Unit 7: Express & APIs: Lab 1 – Shops Pt. 1

Assigned: 01/11/23

Due: 01/12/23

Completed: 01/12/23

**LMS:** <https://lms.grandcircus.co/mod/assign/view.php?id=22808>

**Google Doc:** <https://docs.google.com/document/d/1dL_kyZezftlaISBq7gfNTqDniJpgWLppWMMfK9R9He4/preview>

**GitHub:**

**Skills:** Express, APIs

**Overview**: In this exercise, you will create JSON API endpoints (for computers to read) to interact with an array of shops. Exercise 2 uses the same data for web pages (for humans to read). These exercises are designed to be built together in the same project.

**Setup**: First, set up an Express server.

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**Build Specifications:**

Create a Shop interface with properties for id, name, and rating. Create an array of shops, like this…

A screenshot of a computer screen

Description automatically generated with medium confidence

const shops: Shop[] = [

    { id: 111, name: "Pepper's Pizza", rating: 4.5 },

    { id: 222, name: "Clive's Chives", rating: 3.4 },

    { id: 333, name: "Betty's Brews", rating: 4.3 },

    { id: 444, name: "Sylvester's Shoes", rating: 3.8 },

    { id: 555, name: "Teddy's Tunes", rating: 4.7 }

];

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Description automatically generated with medium confidence

1. Create an API endpoint to read all shops.

* GET /api/shops. It responds with a JSON array of all shops.

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A picture containing graphical user interface

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Text

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2. Create an API endpoint to read details for a particular shop.

* GET /api/shops/:id. It responds with a JSON object of the shop with the given ID (match the id route parameter).
* If there is no matching shop, respond with status code 404 and the JSON object { "error": "Shop not found: ${ID HERE}" }

A picture containing graphical user interface

Description automatically generatedA picture containing logo

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A screenshot of a computer

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Graphical user interface, application

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Text

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Graphical user interface

Description automatically generated with low confidence



3. Modify the listing API endpoint to find shops at or above a particular rating.

* Add an optional minRating query string parameter to: GET /api/shops. If specified, it filters the results to shops that have a rating greater than or equal to the given rating. If not specified, include all shops as before.

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Graphical user interface, application, Word

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Text

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Jonathan also requested we do PUT, POST, and DELETE for complete CRUD functionality.

201 successfully created a thing

204 successful, but no data returned

404 I can’t find the thing you are asking for

**POST**

Text

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Graphical user interface, text, application, email

Description automatically generated

Doing a GET to confirm it was added to /shops/

A picture containing chart

Description automatically generated

Text

Description automatically generated

**PUT**

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Graphical user interface, text, application

Description automatically generated

The Body confirms the update. Verified this with a GET for /shops/ as well.

Graphical user interface, text, application

Description automatically generated

**DELETE**

I opted to stick with the ‘hard delete’ and used the **filter** method as opposed to **slice**

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Graphical user interface, text, application, Word

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Confirming it was deleted from /shops/

Text

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