ASSESSMENT 6

Task: Using the starter repository, create an Express server with several API endpoints and a search form.

Setup and Submission:
See readme.md for setup instructions. Commit and push to submit.

Build Specifications:
- The starter code has the beginning of an Express server, which will run on port 3000. index.ts is mostly completed for you, however you will need to import and use the routes that you create.
- Create this array of trip objects. NOTE: **Use this exact data** in order to ensure successful grading of your assessment.
  ```
  [
    { to: "Lagos", distance: 5729 },
    { to: "Paris", distance: 3929 },
    { to: "Santiago", distance: 5291 },
    { to: "Tokyo", distance: 6403 }
  ]
  ```
- Make the following API endpoints.
  - **GET: /api/trips** - As a response, send back the entire trips array as JSON.
  - **POST: /api/trips** - Add a trip to the array using the JSON body of the request. Respond with the new trip object as JSON and status 201.
- Do not forget to test the API endpoints with Postman.

- Make the following pages.
  - A homepage (**/**)
    - i. Displays an anchor tag labeled "See all trips" that links to **/all-trips**.
    - ii. Displays a form with a number input named **maxDistance** and a submit button. The form uses the GET method and submits to **/trips-search**

All Trips

[See all trips](#)

Search Trips

Max Distance: [   ]

[Search]

  - A trip listing page (**/all-trips**) - Displays all the trips from the array.
    - i. The results must be displayed in an **unordered list**. and include both the destination ("to") and the distance of each trip, like this...

Trip Results

  - Lagos - 5729
  - Paris - 3929
  - Santiago - 5291
  - Tokyo - 6403

  - A search results page (**/trips-search**) - This takes the maxDistance query string parameter submitted from the form and displays all the trips that have a distance less than or equal to the specified maxDistance.
    - i. Display results in an **unordered list**, just as in the /all-trips page.
    - ii. If there are no matching trips, display a message that says "No matching results." instead of the unordered list.

Trip Results

No matching results.

Grading Criteria:

1. GET `/api/trips` endpoint gives a successful response that includes a JSON array of all trips.
2. POST `/api/trips` endpoint adds the request body to the array so that when GET `/api/trips` is called again, the new trip is included.
3. POST `/api/trips` endpoint responds with the new trip as JSON and status code 201.
4. The homepage (`/`) displays a link to `/all-trips`.
5. The homepage (`/`) displays a form with the correct action and method.
6. The form on the homepage includes a number input with the correct name (`maxDistance`) and a submit button.
7. The trip listing page (`/all-trips`) shows the destination (to) of all matching trips
8. The trip listing page (`/all-trips`) shows results in an unordered list including the destination (to) and distance of each trip.
9. The search results page (`/trips-search`) shows the destination (to) of all matching trips, correctly limited by the `maxDistance` query string parameter.
10. The search results page displays "No matching results." when there are no trips within the specified `maxDistance` limit.