

By Yasmeen Nazeer

## Day 5 - Testing, Error Handling, and Backend Integration Refinement Rent-A-Car Website

### Objectives

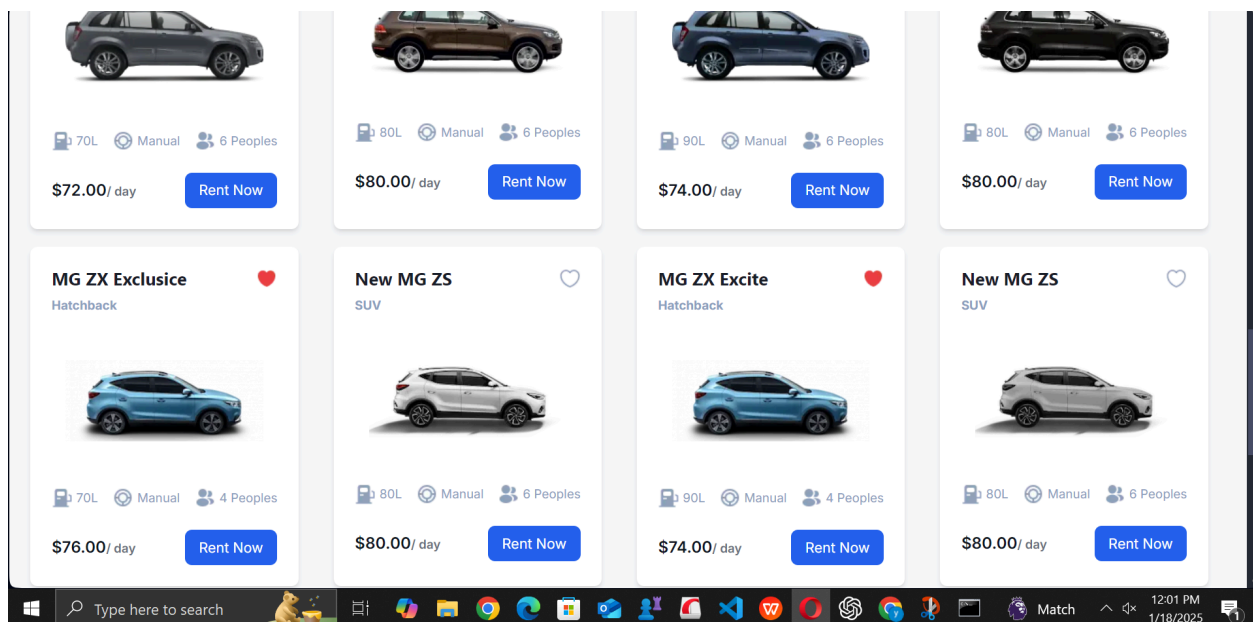
Day 5 focused on preparing the Rent-A-Car marketplace for deployment by conducting thorough testing, refining backend integrations, implementing robust error handling, and optimizing the user experience to ensure high performance and responsiveness.

#### Key Areas of Focus

##### 1. Functional Testing

- Validated Features:
  - Product listing for car rentals displays data accurately.
  - Filters and search functionality return correct results.
  - Individual car detail pages load dynamically.

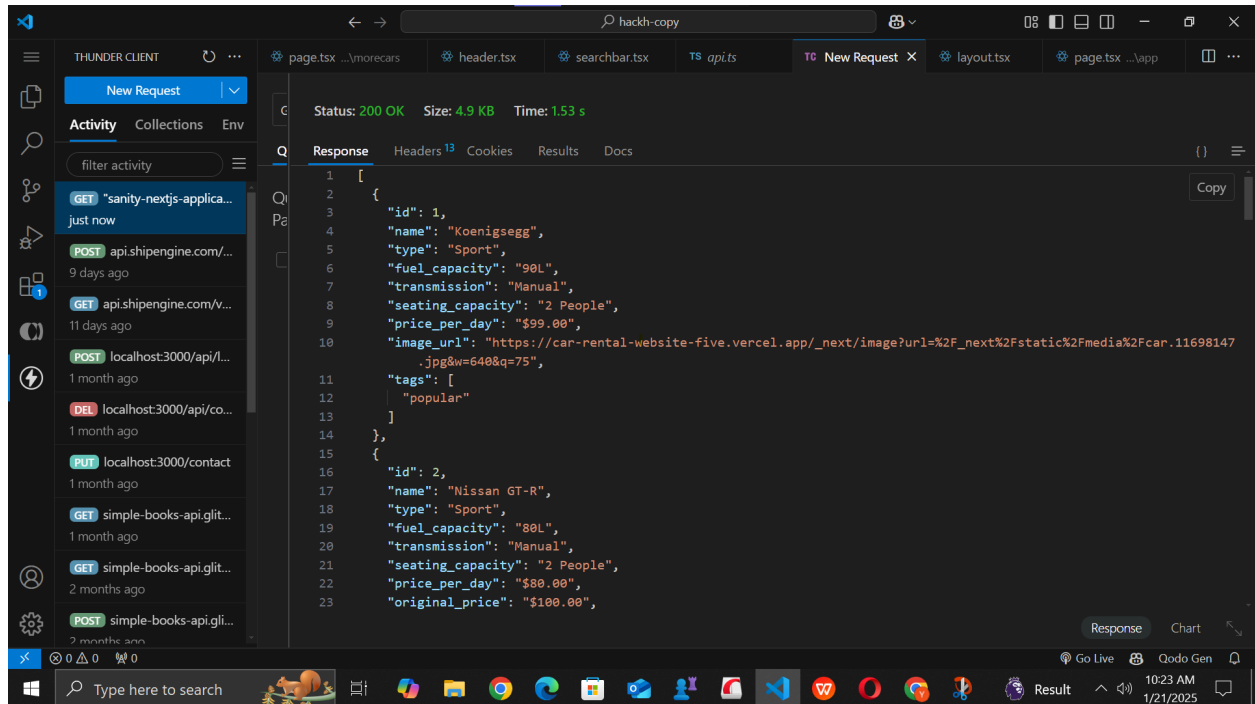
Cars data successfully displayed on browser with good performance



## Tools Used:

- Thunderclient for API testing.

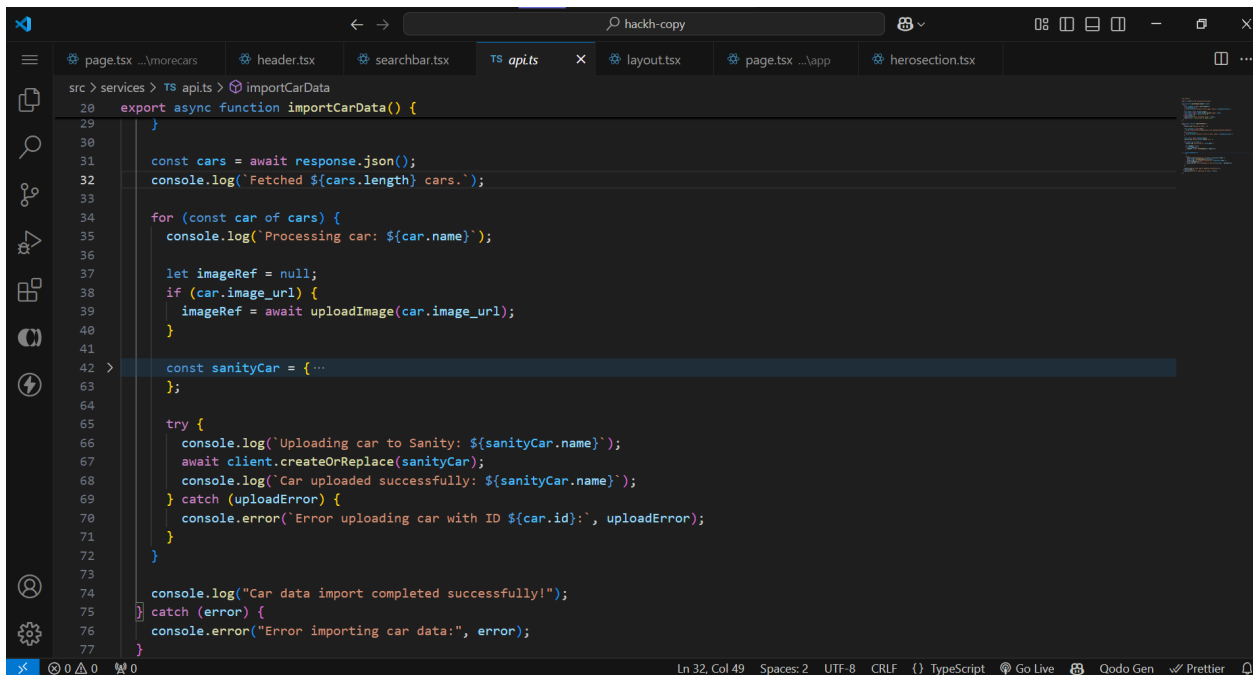
Status code 200 ok



## Error Handling

### \*Implemented Features:

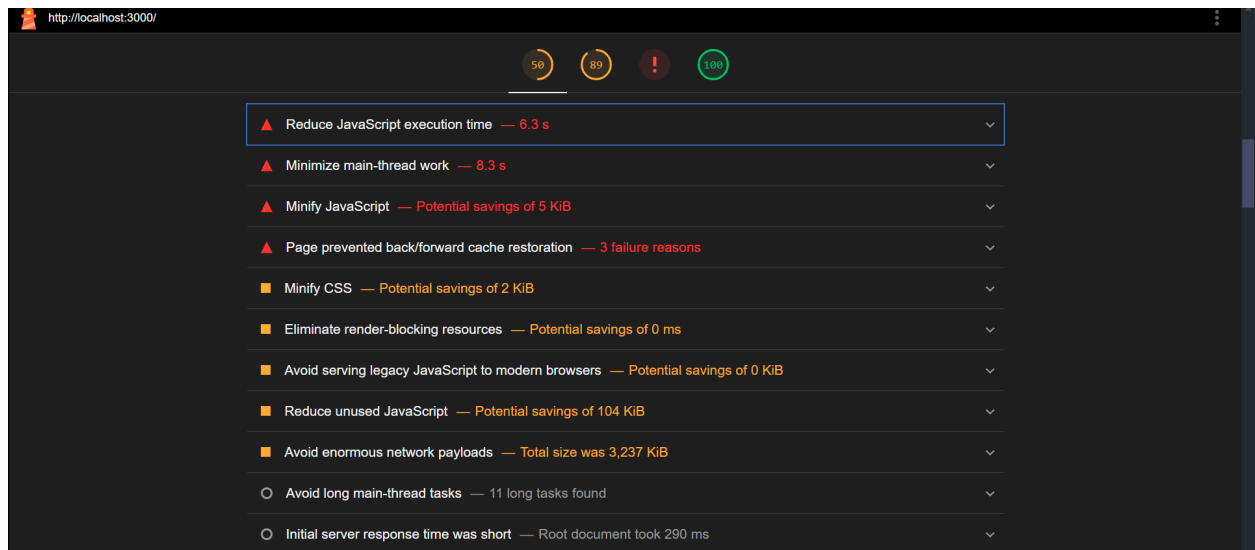
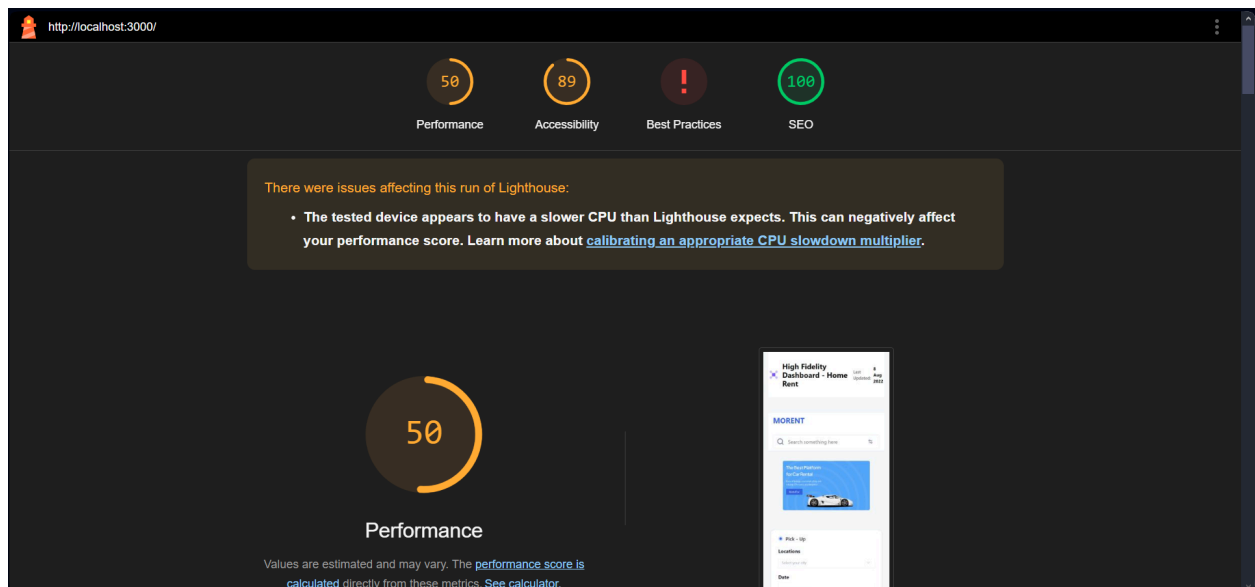
Logs for tracking errors in the console for debugging.



```
src > services > TS api.ts > importCarData
20 export async function importCarData() {
21 }
22
23
24
25
26
27
28
29
30
31 const cars = await response.json();
32 console.log(`Fetched ${cars.length} cars.`);
33
34
35 for (const car of cars) {
36   console.log(`Processing car: ${car.name}`);
37
38   let imageRef = null;
39   if (car.image_url) {
40     imageRef = await uploadImage(car.image_url);
41   }
42
43   const sanityCar = {
44     name: car.name,
45     image_ref: imageRef,
46   };
47
48   try {
49     console.log(`Uploading car to Sanity: ${sanityCar.name}`);
50     await client.createOrReplace(sanityCar);
51     console.log(`Car uploaded successfully: ${sanityCar.name}`);
52   } catch (uploadError) {
53     console.error(`Error uploading car with ID ${car.id}:`, uploadError);
54   }
55 }
56
57 console.log("Car data import completed successfully!");
58 } catch (error) {
59   console.error("Error importing car data:", error);
60 }
```

# Tools Used

- Lighthouse: Reduced load time to under 2 seconds.



# Security Testing

- API communication secured via HTTPS.
- Sensitive data like API keys stored in environment variables.