

Marketplace Builder Hackathon 2025

Day 5 : Testing and Backend Refinement

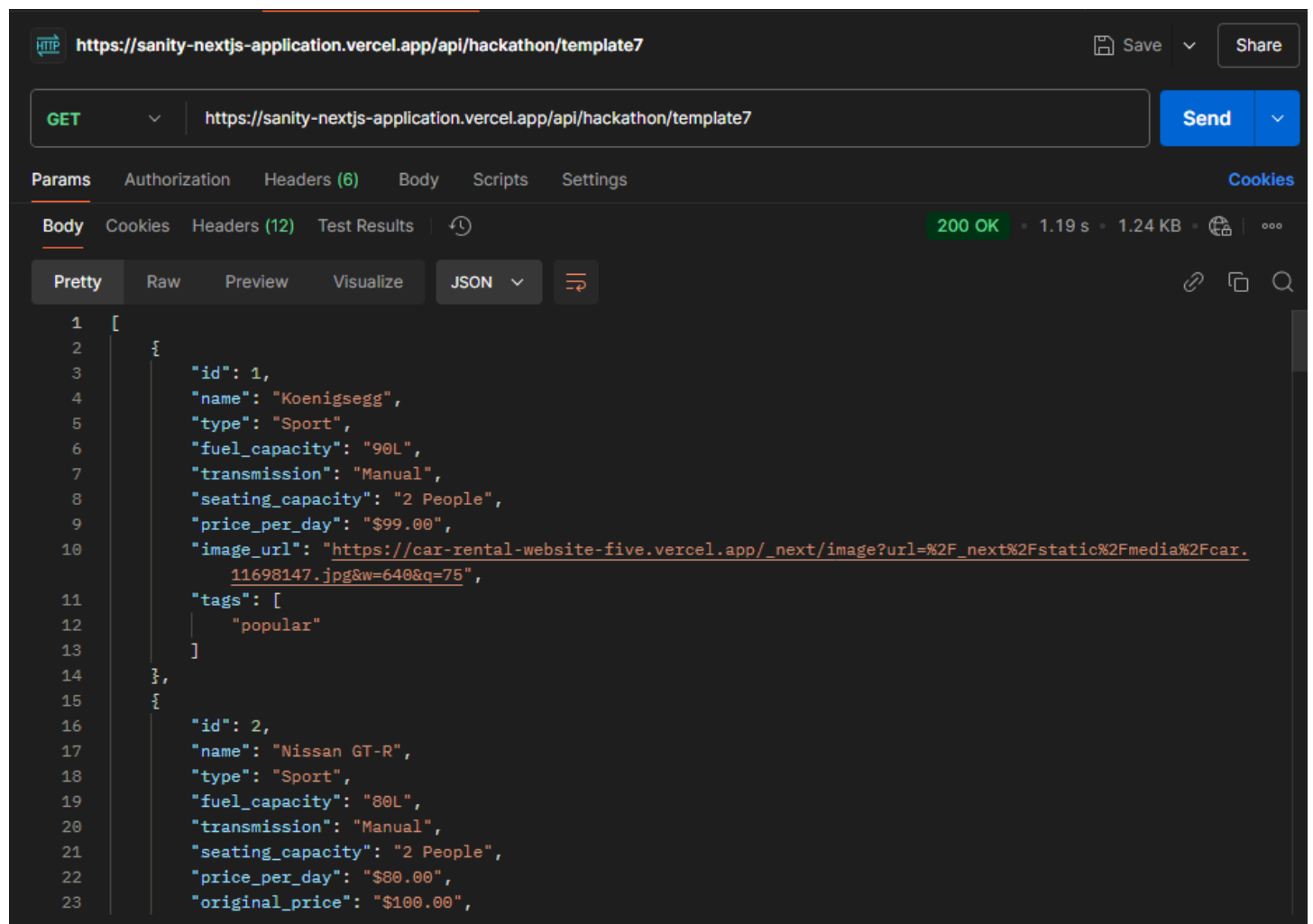
In this document we will be presenting all our testing, data refinements and error handling. Through this we will strengthen the backend by implementing robust error handling mechanisms, ensuring high performance through testing, and refining functionalities for reliability and scalability.

API Testing:

We will test our API(s) by tools like Postman or DevTools. The outcome of test are shown below:

Import Data API:

From this API we migrated data to Sanity CMS. The outcome is as expected,



Car Data API From Sanity:

This function fetches data from Sanity CMS accepting an id as params from car detail page,

```
const fetchData = async (id: string): Promise<Car[] | null> => {
  try {
    const data = await client.fetch(
      `*[_type=="car" && _id == $id]{
        _id,
        name,
        type,
        tags,
        seatingCapacity,
        transmission,
        fuelCapacity,
        pricePerDay,
        "image_url":image.asset->url
      }`, { id });

    return data;
  } catch (error) {
    console.error("Error fetching data in detail page", error);
    return null;
  }
};
```

The outcome of the API is as expected,

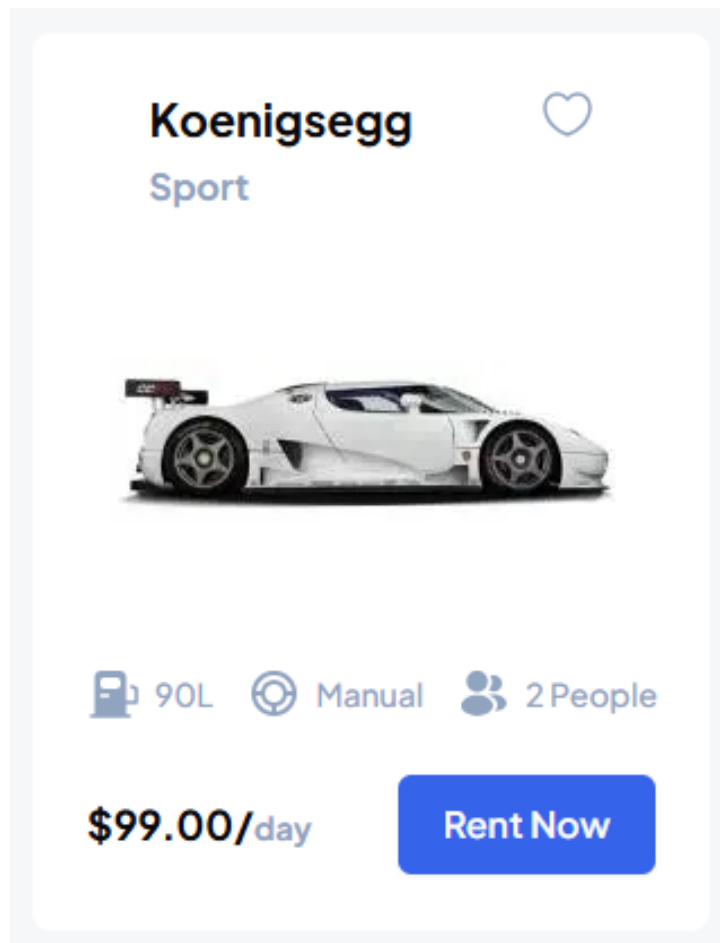
```
[
  {
    "type": "Sport",
    "seatingCapacity": "2 People",
    "image_url": "https://cdn.sanity.io/images/y7155veh/production/db21552aead2a561b7291136fdd93fe715a02090-204x64.jpg",
    "pricePerDay": "$80.00",
    "_id": "0e0ztuJY6NWdyblBETqyYJ",
    "name": "Nissan GT-R",
    "tags": [
      "popular"
    ],
    "transmission": "Manual",
    "fuelCapacity": "80L"
  }
]
```

Components Testing

We created components like Popular Cars component, Recommended Cars component, Header component, Footer component, Hero component, Button component, Car Card component, Select component and Wrapper component.

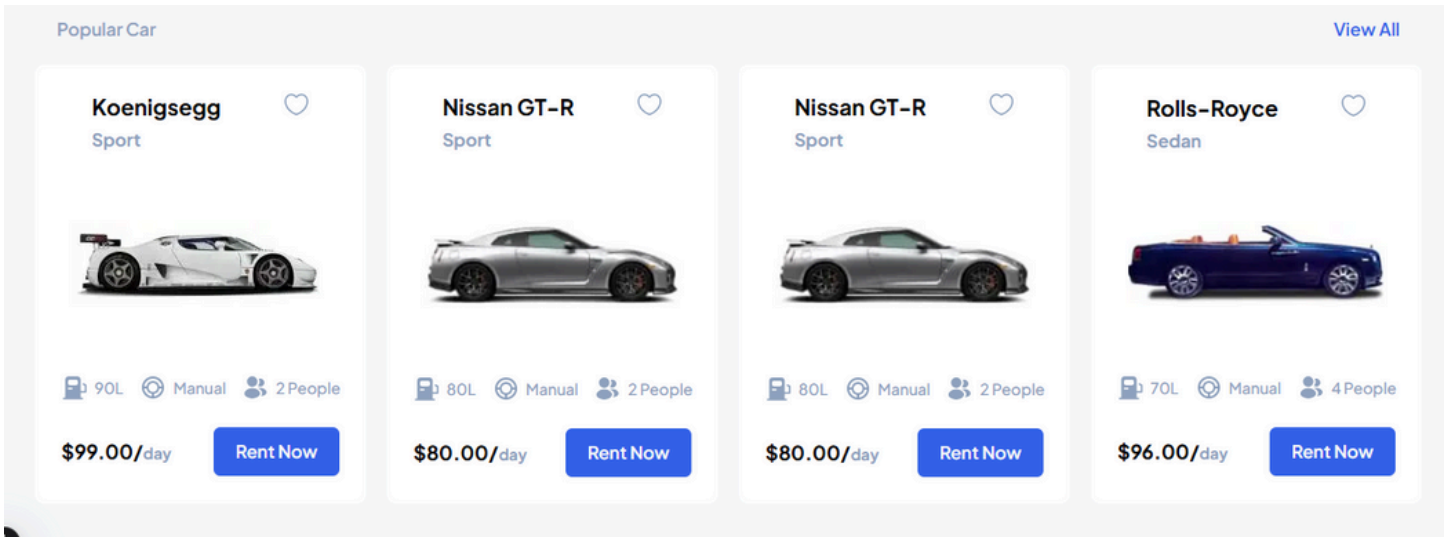
Car Card Component:

Successfully displayed a card showing car image, car name, car type, fuel capacity, seats etc.



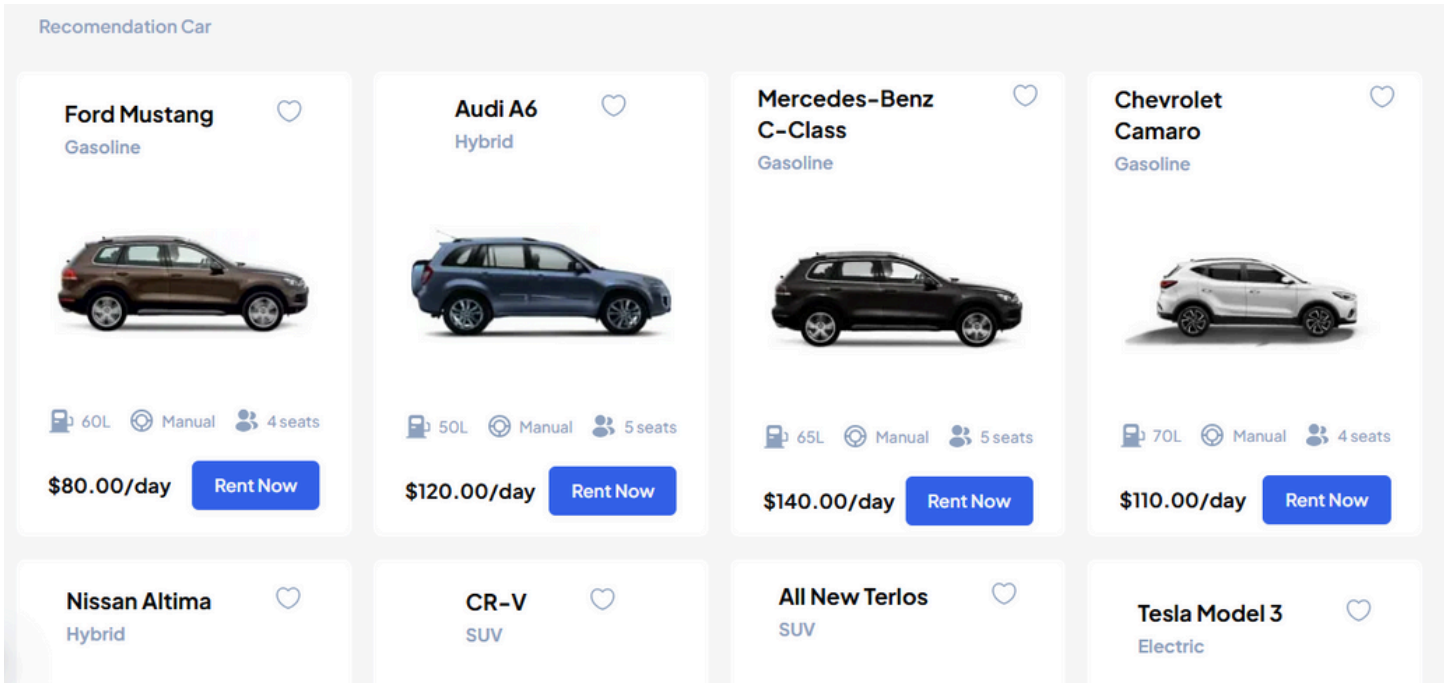
Popular Cars Component:

This component successfully showed cars with popular tag.



Recommended Cars Component:

This component successfully showed cars with recommended tag.



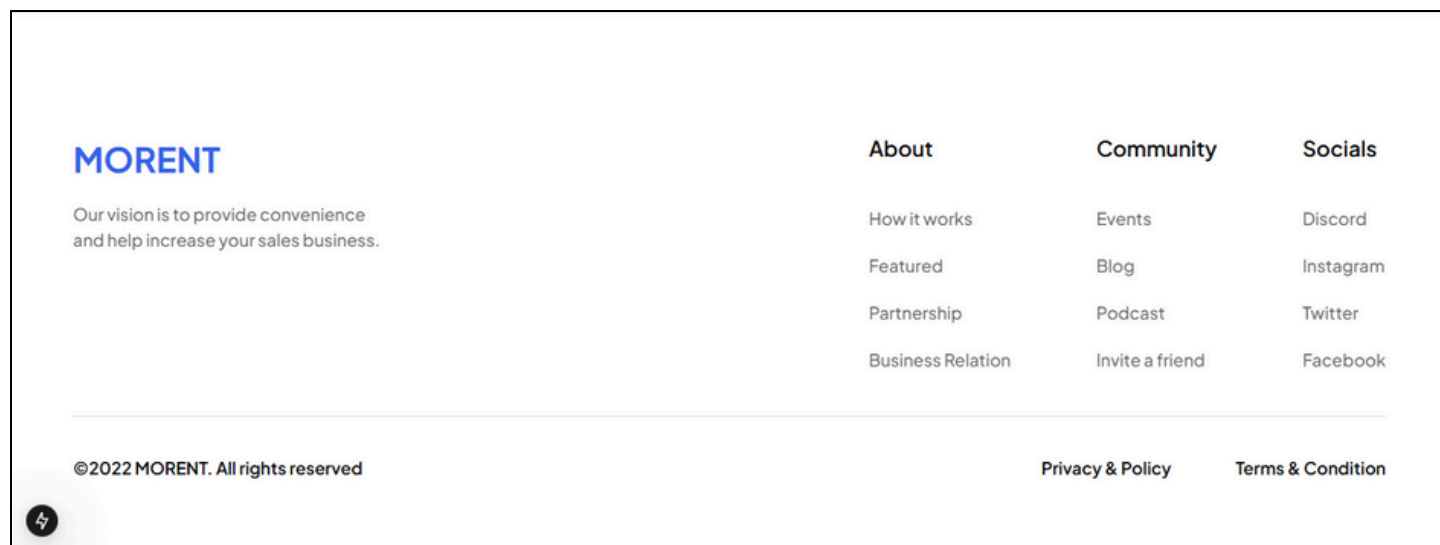
Header Component:

Successfully displayed the UI component for header showing logo, search bar, setting buttons etc.



Footer Component:

Successfully displayed the UI component for footer showing logo, search links, privacy policy etc.



Lighthouse Report

Lighthouse report showing the score of my marketplace

