

DEPLOYMENT PREPARATION AND STAGING ENVIRONMENT SETUP

Introduction:

❖ Objective:

- ✓ The objective of Day 6 is to prepare the marketplace application for deployment by setting up a **staging environment**, configuring hosting platforms, and ensuring the application is ready for a customer-facing release. This involves deploying the application to a production-like environment, testing it thoroughly, and documenting the results.

❖ Key Points:

- **Staging Environment Setup:** A staging environment is a replica of the production environment where the application is tested before going live.
- **Environment Variables:** Securely configure sensitive data like API keys and database credentials using `.env` files and hosting platform settings.
- **Testing:** Conduct functional, performance, and security testing to ensure the application works as expected in a production-like environment.

Staging Environment Deployment:

- The marketplace application has been successfully deployed to a staging environment using **Vercel**. Below is the deployment link:

Vercel Deployment Link: <https://rentalcarecommerce.vercel.app>

Testing and Validation:

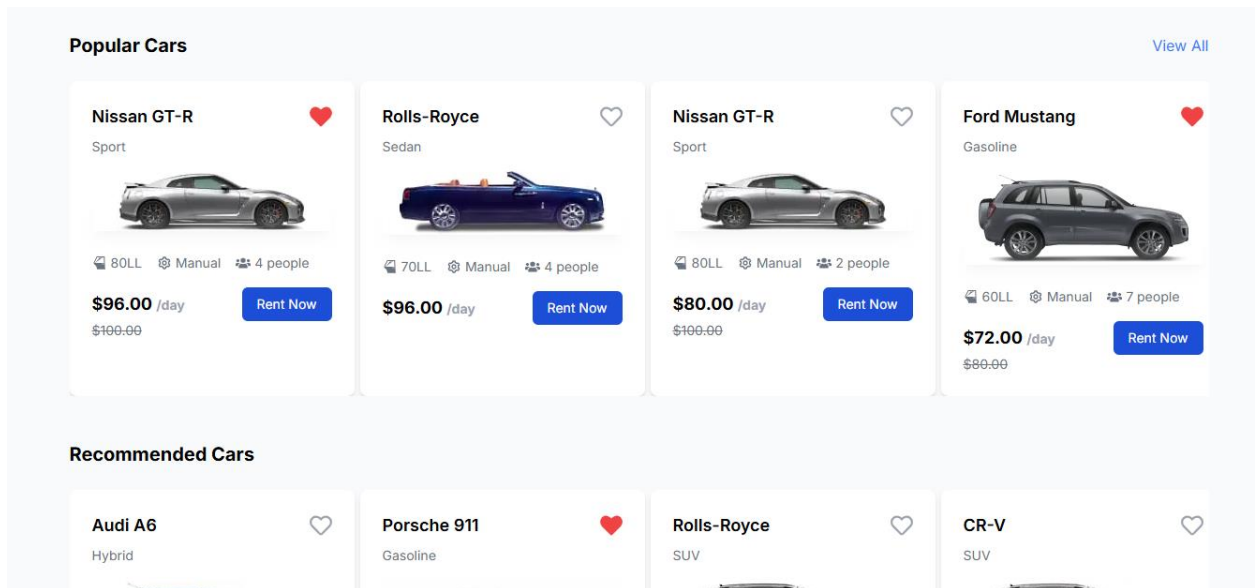
Below are the screenshots of the testing process conducted in the staging environment:

- **Testing Link:** <https://gtmetrix.com/reports/rentalcarecommerce.vercel.app/uSEYdmFo>

- **Testing Link:** https://pagespeed.web.dev/analysis/https-rentalcarecommerce-vercel-app/nks65to5s0?form_factor=desktop

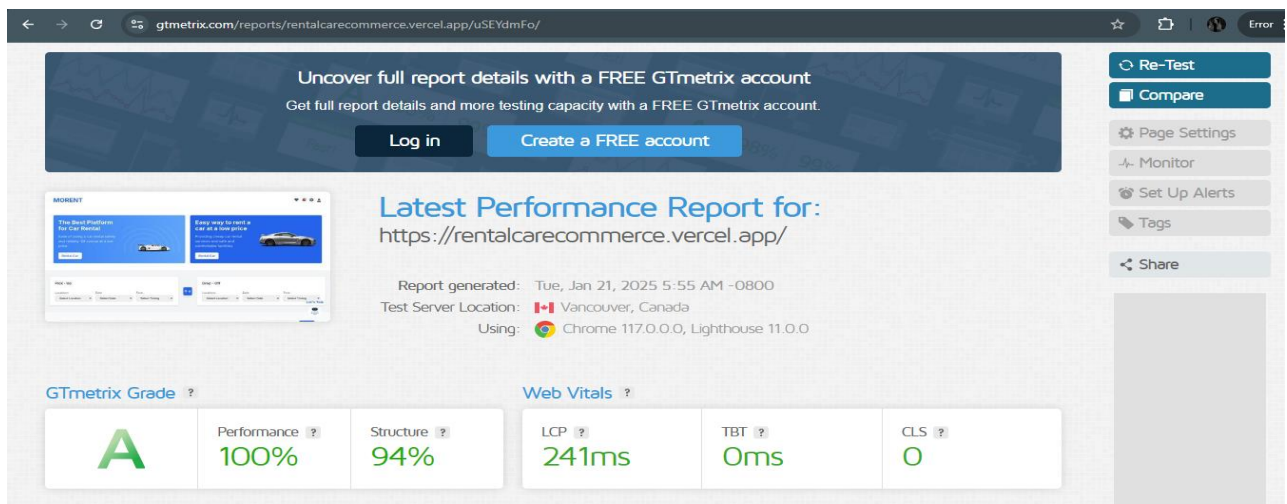
1. Functional Testing:

- **Product Listing:** Verified that all products are displayed correctly.
- **API Interactions:** Validated API responses and error handling.



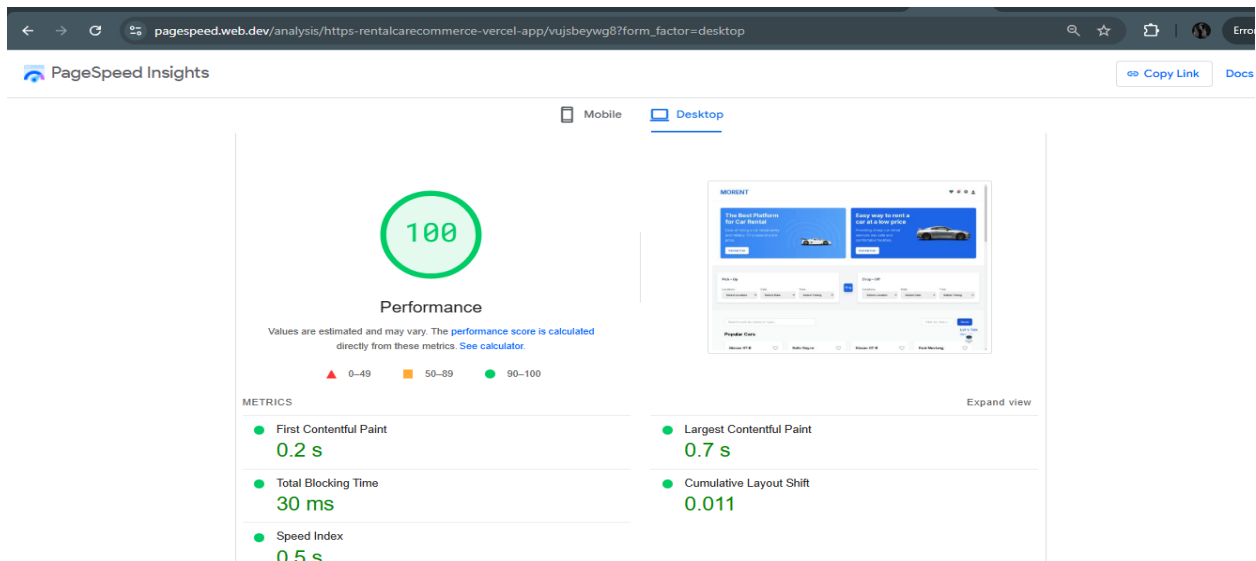
2. Performance Testing:

- Used **Lighthouse**, **GT metrics** to analyze the application's performance, including load times, speed, and responsiveness.



DAY 6: MARKETPLACE BUILDER HACKATHON 2025

- Achieved a **100%** Performance in **Lighthouse**.
- Achieved a **100%** Performance in **GTmetrice**



3. Test Case Report:

- All **test cases** were documented in a **CSV file** with the following fields:

Test Cases Link: https://drive.google.com/file/d/1hwn0WGY3oMKEXuM-mQ_GxTfSxmzL2gZM/view?usp=sharing

Conclusion:

Day 6 was focused on preparing the **marketplace application** for deployment by setting up a staging environment, conducting thorough testing, and documenting the results. The application has been successfully deployed to Vercel, and all test cases have been validated. The project documentation has been updated, and the GitHub repository is well-organized for future reference.