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Class : Friday (7-10)

Day 6 - Deployment Preparation and Staging Environment Setup

Objective: Today, on Day 6, I'm getting my marketplace ready to go live by setting up a staging environment and configuring hosting platforms. It's all about making sure everything runs smoothly and feels polished before customers start using it. I'm building on the testing and tweaks from Day 5, but now I'm focusing on a production-like setup to catch any last hiccups. Along the way, I'll also learn how to manage different environments—like development, testing, and production—so my app is not just functional but also reliable and ready for the real world.

Step 1: Hosting Platform Setup

1. Choose a Platform:

- Since I'm using Vercel for deployment and GitHub for version control, I've chosen a platform that's fast, user-friendly, and perfect for my needs. Vercel makes it super easy to deploy my marketplace quickly, while GitHub helps me keep my code organized and collaborative. If I ever need more advanced configurations in the future, I can explore options like AWS or Azure, but for now, Vercel and GitHub are the ideal combo to get my app up and running smoothly

2. Connect Repository:

I'll connect my GitHub repo to Vercel, so updates automatically deploy. Then, I'll configure build settings and add any necessary scripts to make sure everything runs smoothly. Simple and efficient!

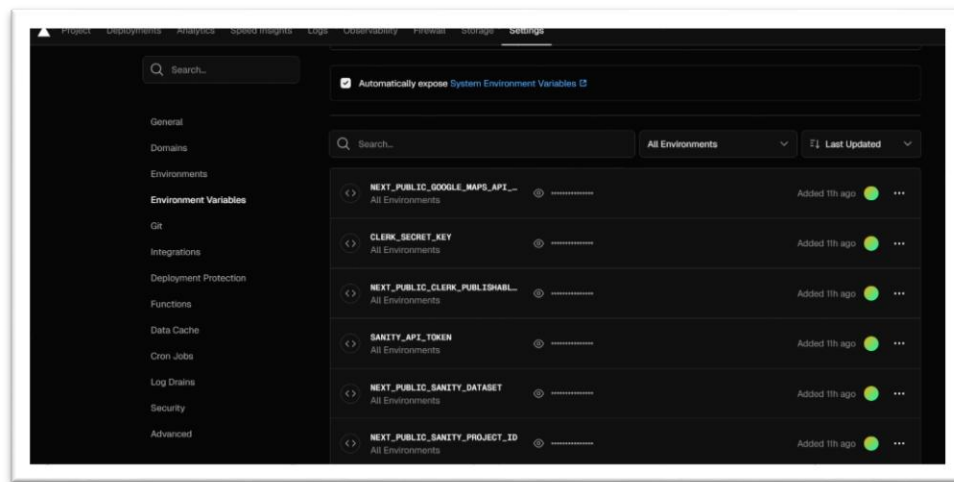
Step 2: Configure Environment Variables

1. Create a .env File:

Include sensitive variables like API keys and tokens.

2. Upload Variables to Hosting Platform:

- o Use the hosting platform's dashboard to securely add environment variables.



Step 3: Deploy to Staging

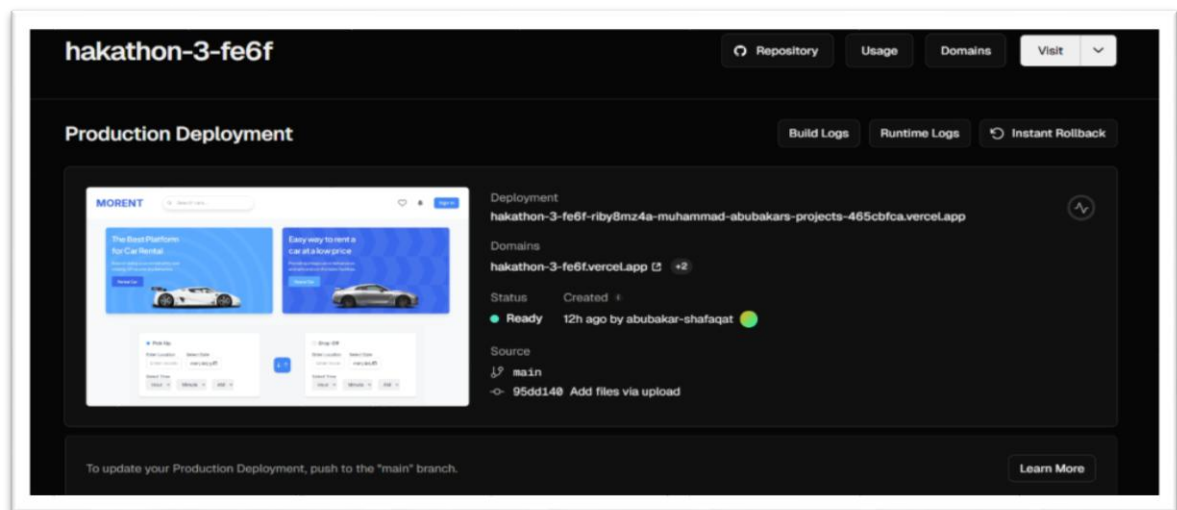
1. Deploy Application:

- o I logged into Vercel and selected my connected GitHub repository.
- o I deployed my application to a staging environment by initiating the build process through Vercel.
- o

2. Validate Deployment:

- o I checked the deployment logs in Vercel to ensure the build process completed without any errors.
- o I accessed the staging URL provided by Vercel and tested the basic functionality of my app:

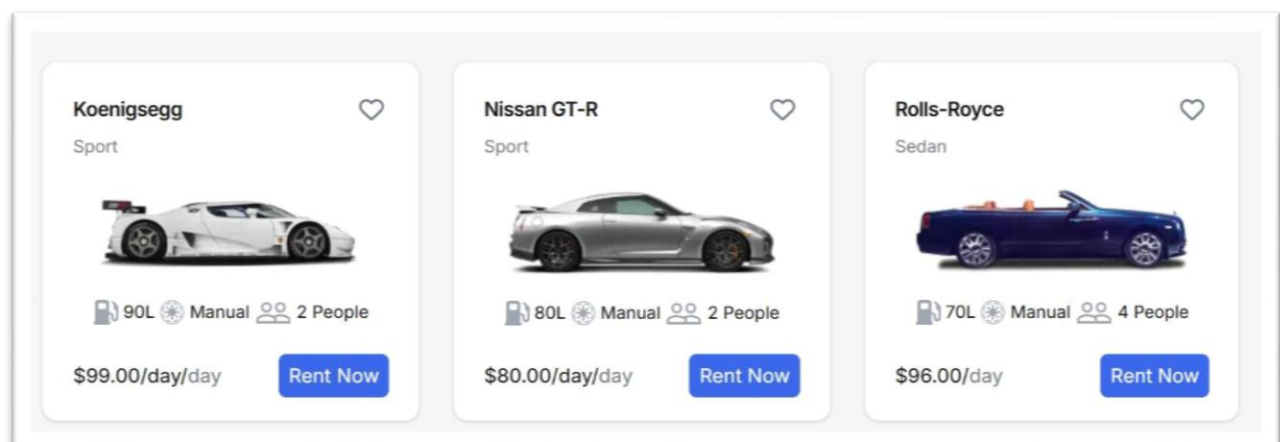
- I confirmed all pages loaded correctly.
- I tested key features like user login, product listings, and search functionality.
- I ensured there were no broken links or missing assets.
- Everything worked as expected, and my staging environment is now ready for further testing or final deployment.



Step 4: Staging Environment Testing

Testing

- functional



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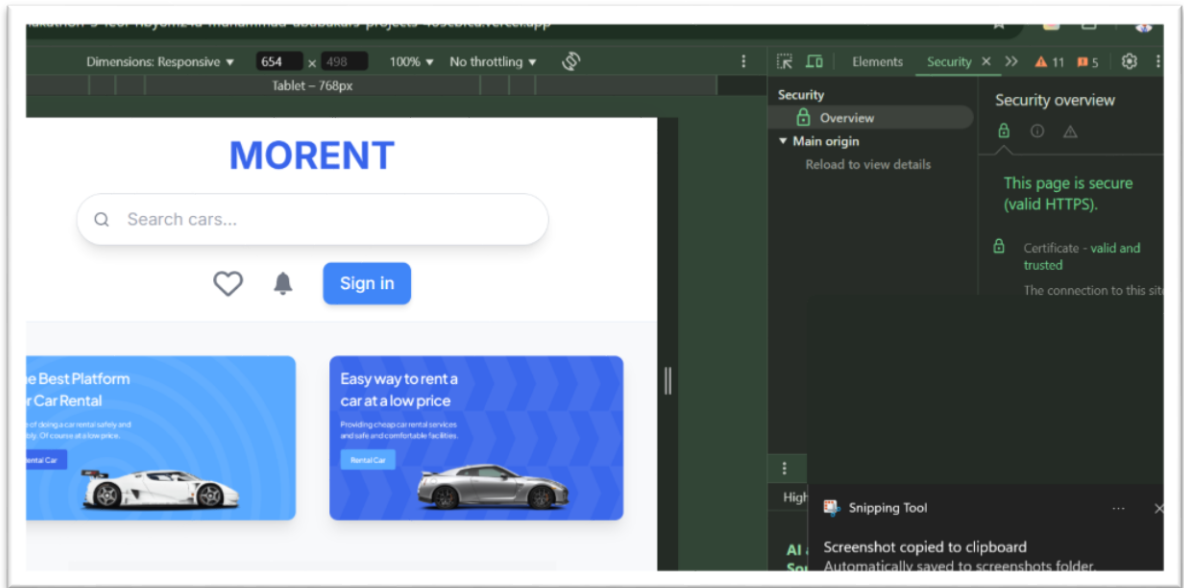
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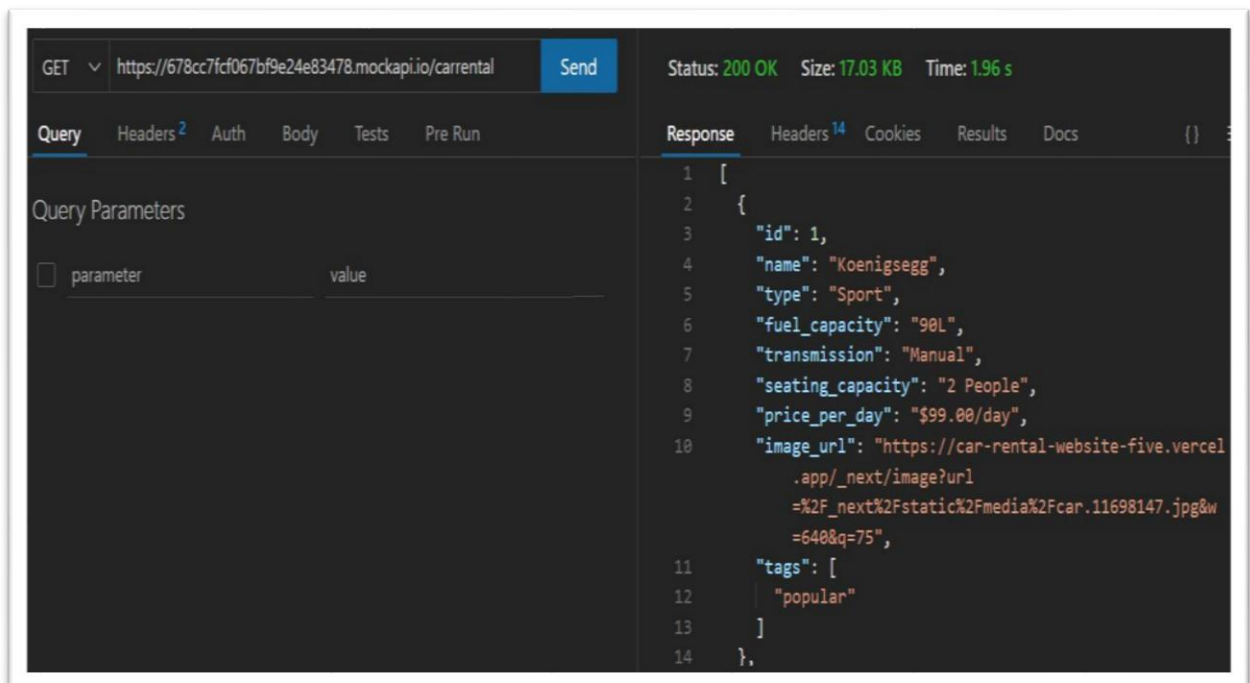
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- security



- API

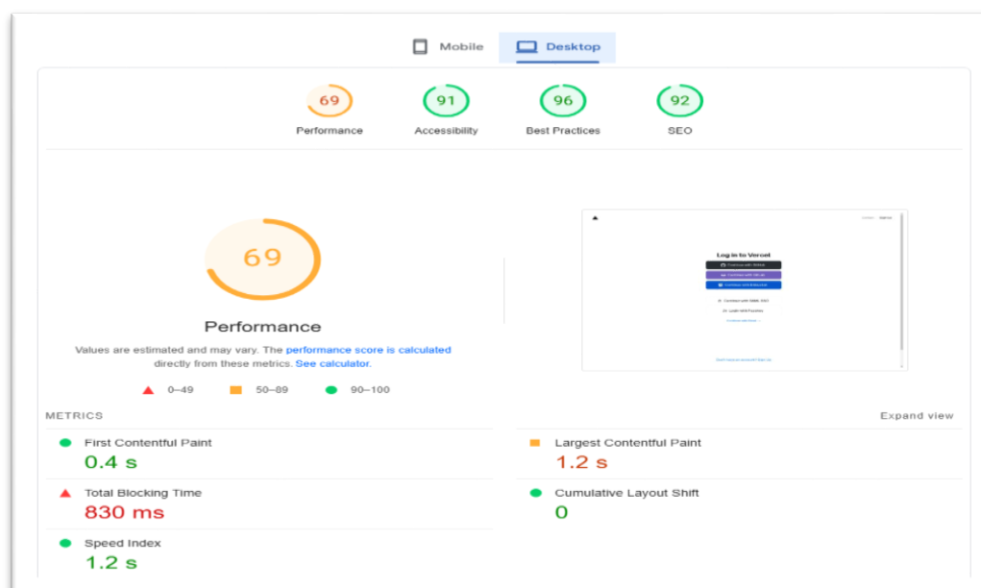


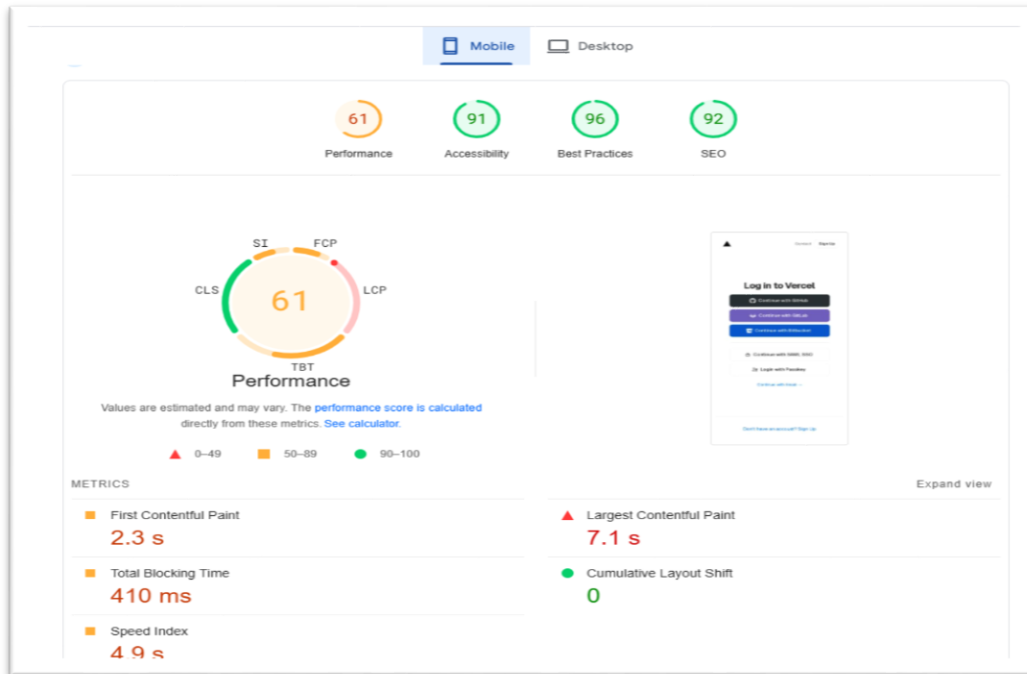
2. Test Case Reporting:

<https://github.com/Abubakar-shafaqat/hakaton-3-task/blob/main/csv%20test%20report/abubakar%20Test-case%20Report%20%20day-5.csv>

Test Case	Test Case Name	Test Steps	Expected Outcome	Actual Result	Status	Severity Level	Remarks
TC001	Product Listing	Verify product display	Products load dynamically	Displayed correctly	Passed	High	No issues found
TC002	Filters and Search	Apply filters and search	Filters show relevant results	Filters worked as expected	Passed	Medium	Test successful
TC003	Cart Operations - Add	Add items to cart	Items added successfully	Items added successfully	Passed	Medium	Test successful
TC004	Cart Operations - Update	Update item quantities	Quantities update correctly	Quantities updated	Passed	Medium	Test successful
TC005	Cart Operations - Remove	Remove items from cart	Items removed successfully	Items removed	Passed	Medium	Test successful
TC006	Cart Summary	Check cart summary	Correct total and item count	Summary reflected correctly	Passed	Medium	Test successful
TC007	Dynamic Routing	Verify dynamic routing	Correct product details load	Dynamic routing works	Passed	High	No issues found
TC008	Postman API Test	Test API responses	API returns correct data	API responses validated	Passed	High	No issues found
TC009	React Testing Library	Test component behavior	Components behave as expected	Component tests passed	Passed	High	No issues found
TC010	Error Handling	Simulate errors and handle	Errors are handled gracefully	Errors displayed properly	Passed	Critical	Security measures added
TC011	Performance Optimization	Optimize performance	Performance is improved	Improved load times	Passed	High	Performance optimized
TC012	Cross-Browser Testing	Test on different devices	Website functions on all devices	All devices compatible	Passed	Medium	Responsive across devices
TC013	Security Testing	Validate inputs & security	No security vulnerabilities	Security tests passed	Passed	Critical	Security validation done
TC014	User Acceptance Testing	Simulate user workflows	Smooth user experience	User workflows verified	Passed	Medium	UAT passed
TC015	Documentation Updates	Document findings	Complete documentation	Documentation updated	Passed	Medium	All updates documented

3. Performance Testing:





Conclusion

In conclusion, Day 6 focused on preparing my marketplace for production by setting up a staging environment and configuring hosting platforms. I successfully deployed the app to Vercel, connected it to GitHub for seamless updates, and validated the deployment through thorough testing of key features. The staging environment is now ready for further testing, ensuring the app is functional, secure, and reliable before going live.