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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!

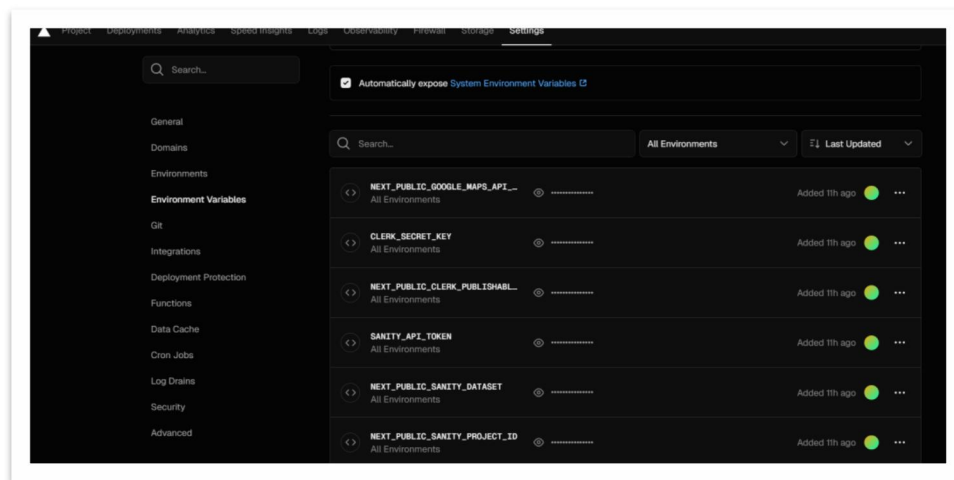
Step 2: Configure Environment Variables

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.

hacaton-3-nhvj

RepositoryUsageDomainsVisit

Production Deployment

Build LogsRuntime LogsInstant Rollback

Deployment
hacaton-3-nhvj-mmjkeu2d-muhammad-abdullahs-projects-750eatd4.vercel.app

Domains
hacaton-3-nhvj.vercel.app +2

Status Created
Ready 2d ago by muhammad-abdullah123

Source
main
cbcd54b Add files via upload

To update your Production Deployment, push to the "main" branch.

[Learn More](#)

Step 4: Staging Environment Testing

Testing

- functional

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Sport

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Rent Now

Rolls-Royce

Sedan

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MORENT

sport



Sport - 2 People



**Aston Martin
DB11**

Sport - 2 People



**Bentley
Continental GT**

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Nissan GT-R
Sport



80L Manual 2 People

\$80.00/day

Rent Now

Tesla Model 3
Electric



100kWh Manual 5 seats

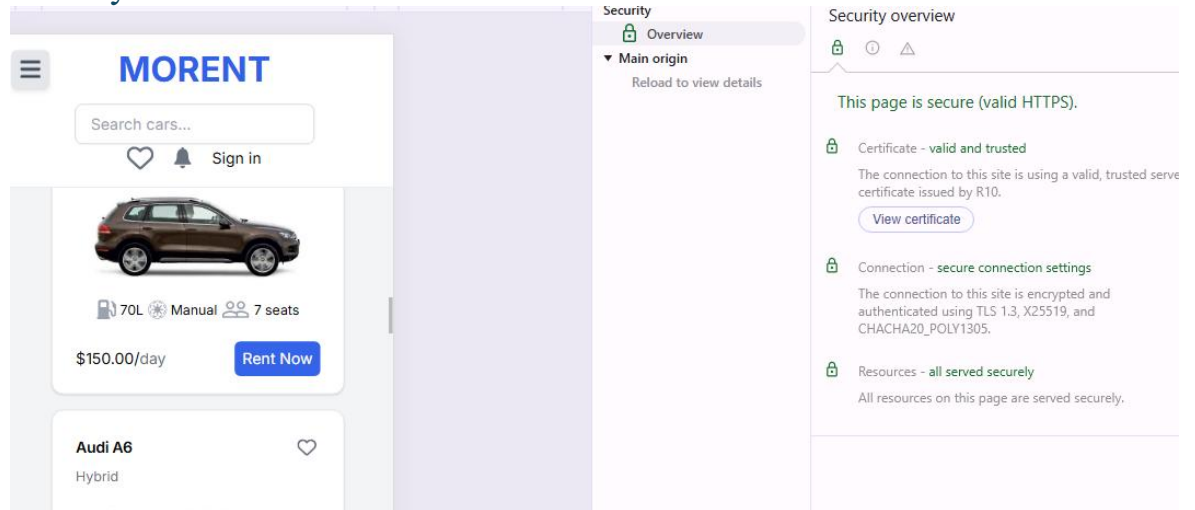
\$100.00/day

Rent Now

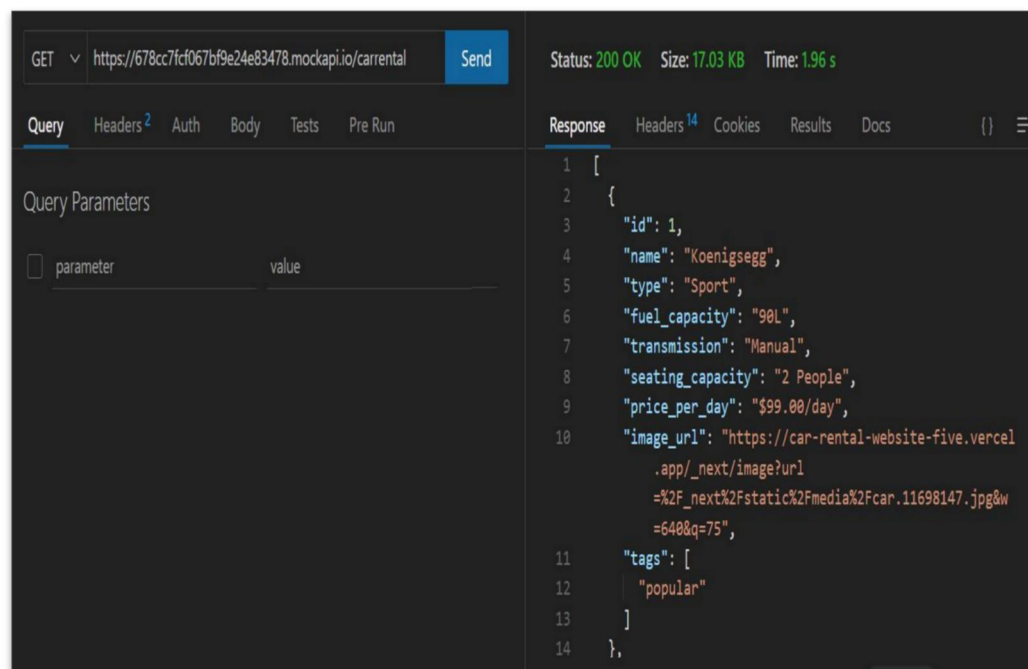
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About

- security



- API



2. Test Case Reporting:

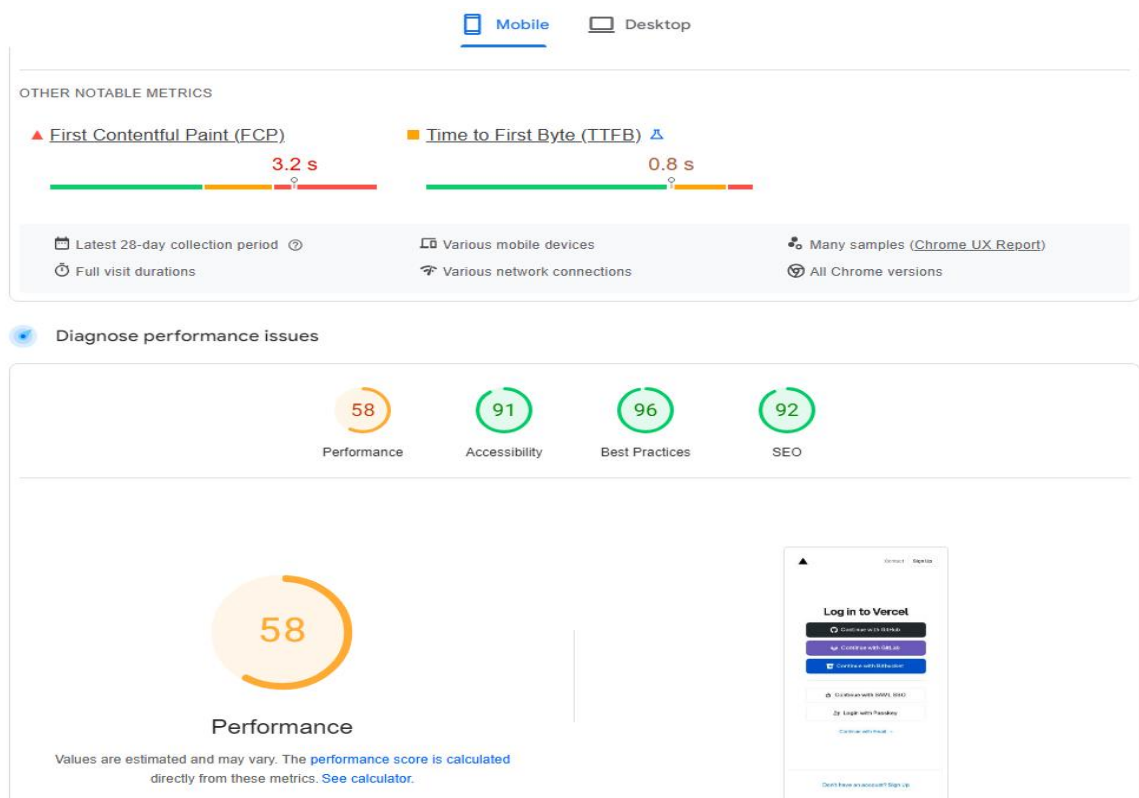
Abdullah-Shafaquat Add files via uploada1659e0 · 2 days agoHistory

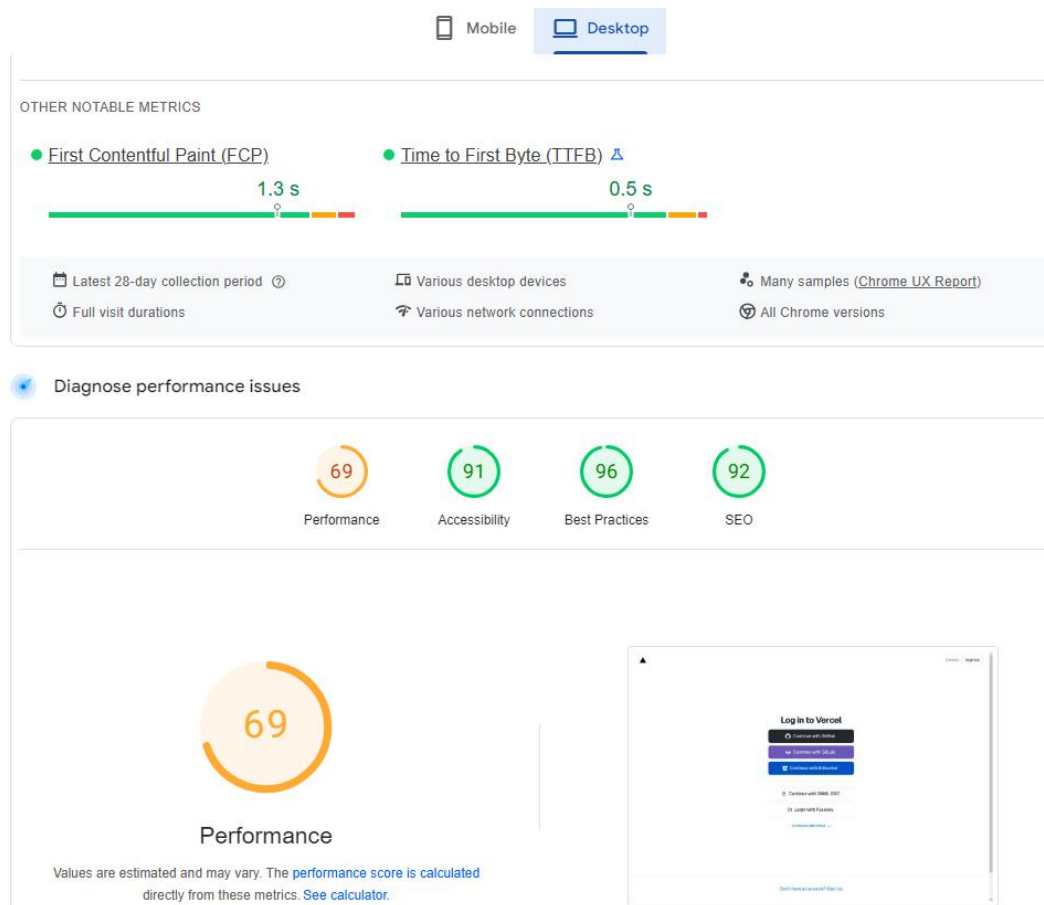
PreviewCodeBlame17 lines (17 loc) · 3.15 KBCode 55% faster with GitHub CopilotRawDownloadEdit

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	Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assign
1								
2	TC001	Validate car listing page	Open car listing page > Verify cars	Cars displayed correctly with details (name, price, image)	Cars displayed correctly	Passed	High	-
3	TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	-
4	TC003	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	Medium	-
5	TC004	Test dynamic routing for car details	Click on car > Verify car details page	Car details page loads correctly with accurate information (name, price, features)	Car details page loaded correctly	Passed	High	-
6	TC005	Validate search and filter	Use search bar and filters (e.g., by brand, seats) > Verify results	Filters and search return accurate car results	Filters and search worked as expected	Passed	Medium	-
7	TC006	Test API response	Use Postman to test GET /api/cars endpoint	API returns valid response with correct car data	API returned expected data	Passed	High	-
8	TC007	Check fallback UI for empty data	Simulate empty car list > Verify fallback message	Fallback message (e.g., "No cars available") displayed	Fallback message displayed correctly	Passed	Medium	-
9	TC008	Test performance optimization	Run Lighthouse analysis > Verify load time and performance metrics	Initial load time under 2 seconds	Load time improved to under 2 seconds	Passed	medium	-
10	TC009	Cross-browser compatibility	Test website on Chrome, Firefox, and Edge	Consistent rendering and functionality across all browsers	Website rendered consistently across browsers	Passed	Medium	-
11	TC010	Test responsive design on devices	Use BrowserStack and physical device to test responsiveness	Website adjusts seamlessly across all device sizes and orientations	Responsive design worked as intended	Passed	High	-
12	TC011	Validate input sanitization	Attempt SQL injection or XSS attack > Verify input validation	Inputs sanitized to prevent attacks	Inputs sanitized successfully	Passed	Critical	-
13	TC012	Test secure API communication	Verify API calls are made over HTTPS	API calls are secure and use HTTPS	API calls made over HTTPS	Passed	High	-
14	TC013	Simulate real-world usage	Browse cars, rent a car, and checkout	All functionalities work as expected	All functionalities worked as expected	Passed	High	-
15	TC014	Collect user feedback	Gather feedback from friends and family	Feedback collected for improvements	Feedback collected and documented	Passed	Low	-
16	TC015	Fix URL path issue	Update URL structure for dynamic routing	Dynamic routing works correctly	Dynamic routing fixed and working	Passed	Medium	-
17	TC016	Resolve image source error	Configure external image domain in next.config.ts	External images load correctly	External images loaded successfully	Passed	Medium	-

3. Performance Testing:





Step 5: Documentation Updates

1. Create README.md:

- o Summarize all project activities, including deployment steps and test case results.

2. Organize Project Files:

- o Ensure all files from Days 1 to 6 are in a structured folder hierarchy.

Checklist for Day 6:

Deployment Preparation:	✓	-
Staging Environment Testing:	✓	-
Documentation:	✓	-
Form Submission:	✓	-
Final Review:	✓	-