

Day 6

Deployment Preparation and Staging Environment Setup

(comforty)

Table of Content:

1. Overview.
2. Selecting a hosting platform.
3. Connecting Github.
4. Configuring build and deployment settings.
5. Setting up environment variable.
6. Checking website functionality after deployment.
7. Performance Testing.
8. Test Case Report.

Overview:

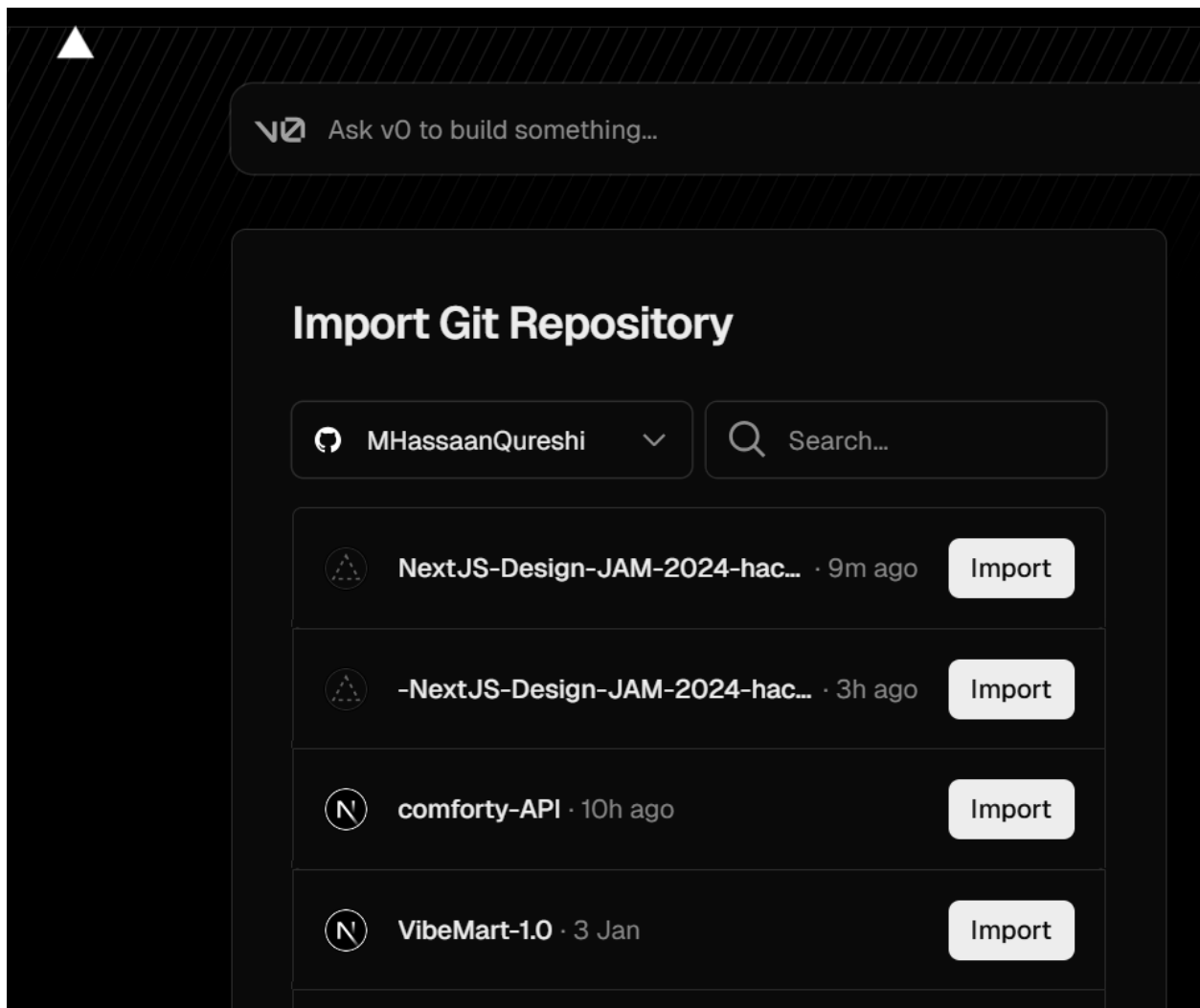
This report details the process and considerations for deploying a web application effectively and ensuring optimal performance. It includes selecting a deployment platform, connecting your github, setting up your environment variable and performance testing.

Selecting a hosting environment:

For this project, we are going to use **Vercel** for the deployment of our application due to its simplicity, speed, and seamless integration with modern web development frameworks like Next.js. Vercel offers a hassle-free setup process, enabling us to connect our GitHub repository and automate the deployment pipeline efficiently. Its global Content Delivery Network (CDN) ensures fast load times and optimal performance for users across the globe. Additionally, Vercel's support for serverless functions, custom domains, and real-time preview links makes it a robust and developer-friendly choice for deploying modern web applications. With these advantages, Vercel provides the perfect platform to ensure our project is scalable, secure, and accessible to users everywhere.

Connecting Github account:

After selecting we will connect our github account with vercel to import our project for easy deployment.





Setting up environment variable:

After importing our project this will be our interface.



New Project

Importing from GitHub

 MHassaanQureshi/comforty-API  main

Choose where you want to create the project and give it a name.



Vercel Team

 hassaan's projects Hobby 

Project Name


comforty-api-4t9u

Framework Preset

 Next.js 

Root Directory


./ Edit

 Build and Output Settings


Here you will add your project name and select the root folder. below root folder we have environment variable part. That where we are going to include our environment variable that we have in our .env file. From there we are going to enter our environment variable there.

> Build and Output Settings

Environment Variables

Key	Value 	
NEXT_PUBLIC_SANITY_PROJECT_ID	mfp6dzcv	—
NEXT_PUBLIC_SANITY_DATASET	production	—
NEXT_PUBLIC_SANITY_AUTH_TOKEN	eVFGGTNDDBqGYhTXahKhtGvjDrZifKQZnFd	—

+ Add More

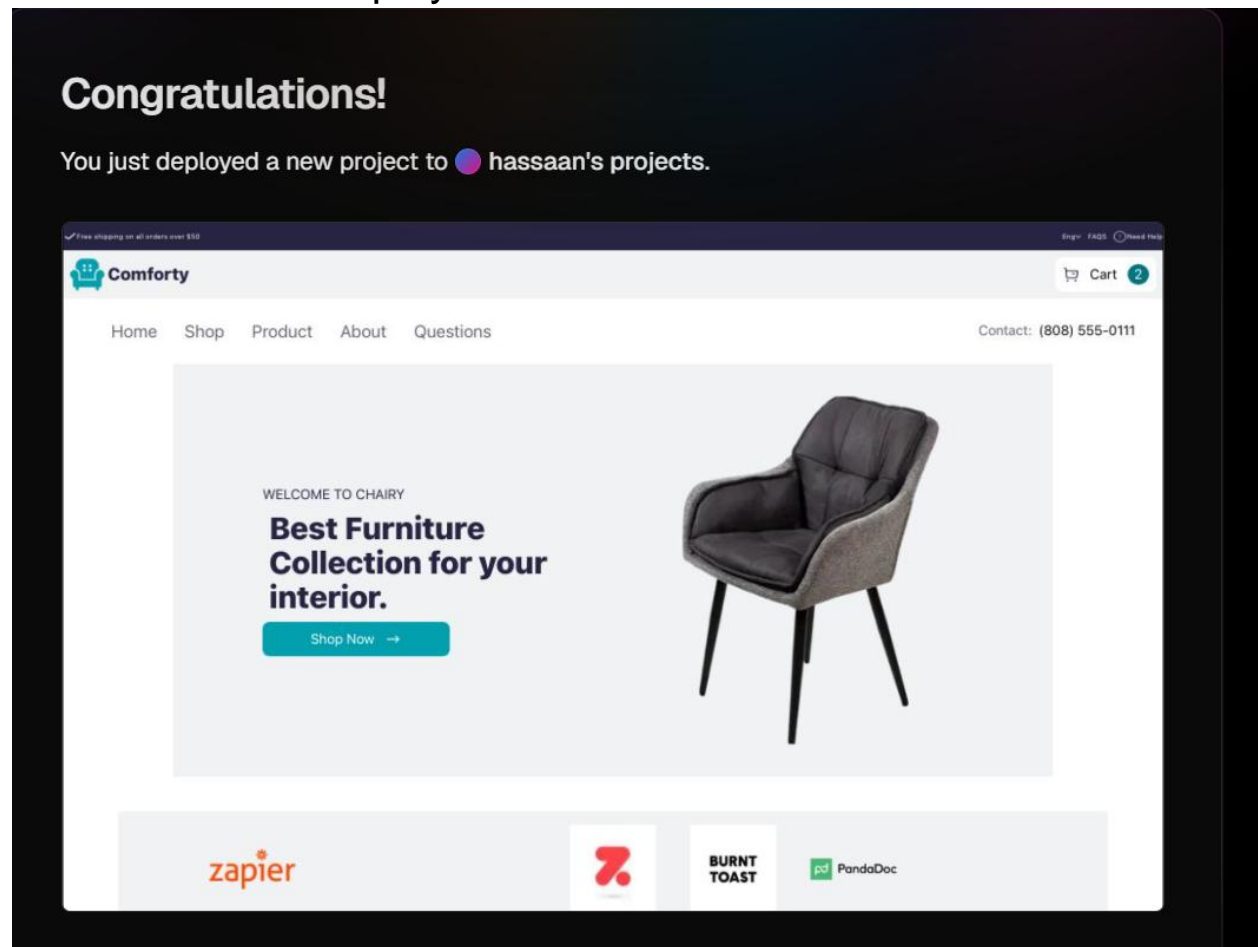
Tip: Paste an .env above to populate the form. [Learn more](#) 

Deploy

After that click deploy. If you don't include environment variable you would face error and failed deployment.

Checking Website functionality after deployment:

After successful deployment:



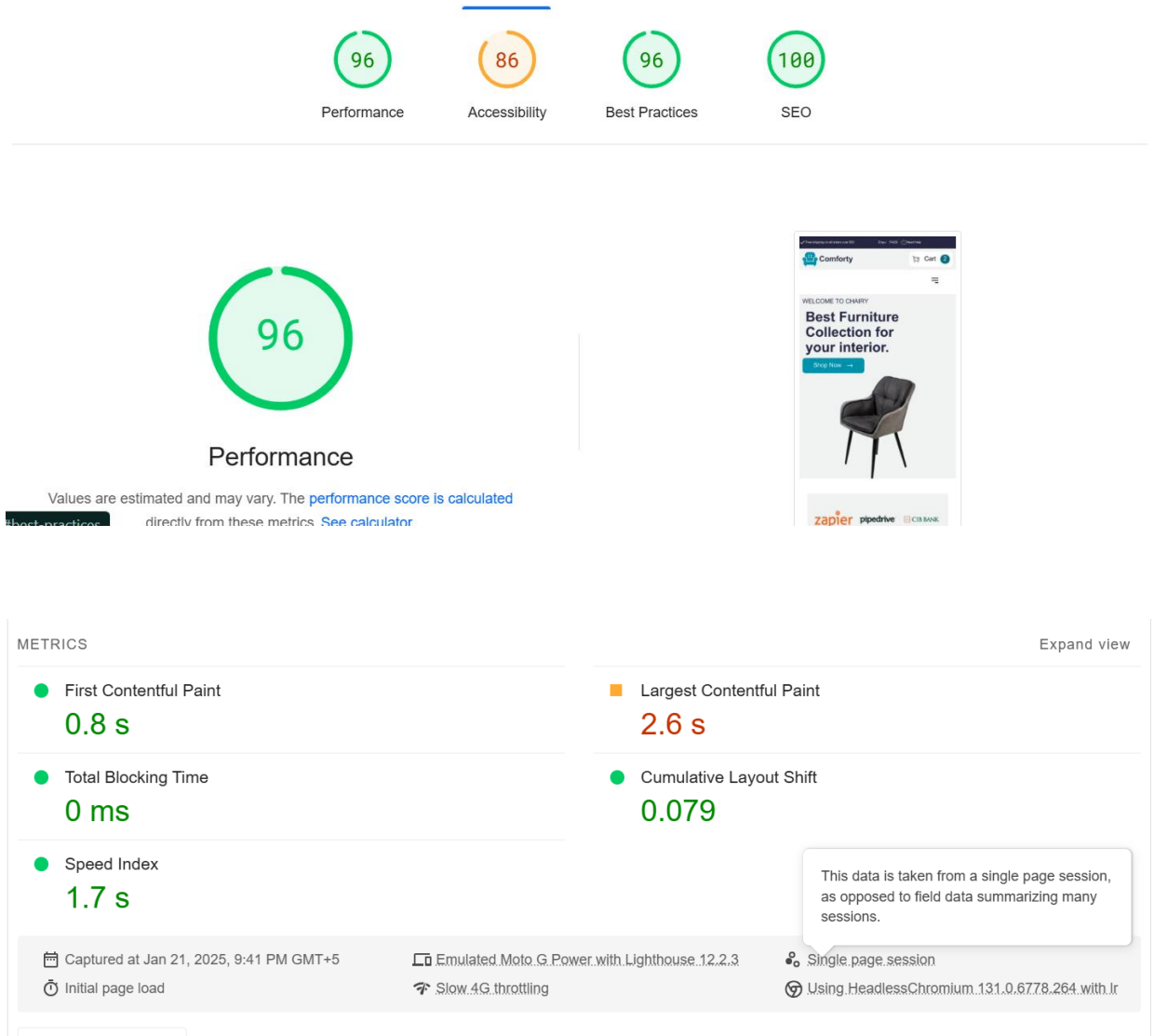
Check your website functionality like cart functionalities or check if Your API is fetching data correctly notifications functionality and other functionality.

Performance testing:

After checking website functionality we are going to check our website performance.

To check a website performance there are multiple website to check performance. But for our comforty I used lighthouse and

these are the result I got of my website:
For Home page:
Small devices:

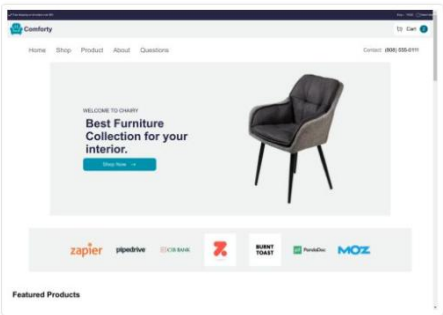


For desktop:



Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)



▲ 0–49

■ 50–89

● 90–100

METRICS

Expand view

● First Contentful Paint

0.2 s

● Total Blocking Time

0 ms

● Speed Index

0.2 s

● Largest Contentful Paint

0.6 s

● Cumulative Layout Shift

0.017

📅 Captured at Jan 21, 2025, 9:47 PM GMT+5

🖥️ Emulated Desktop with Lighthouse 12.2.3

👤 Single page session

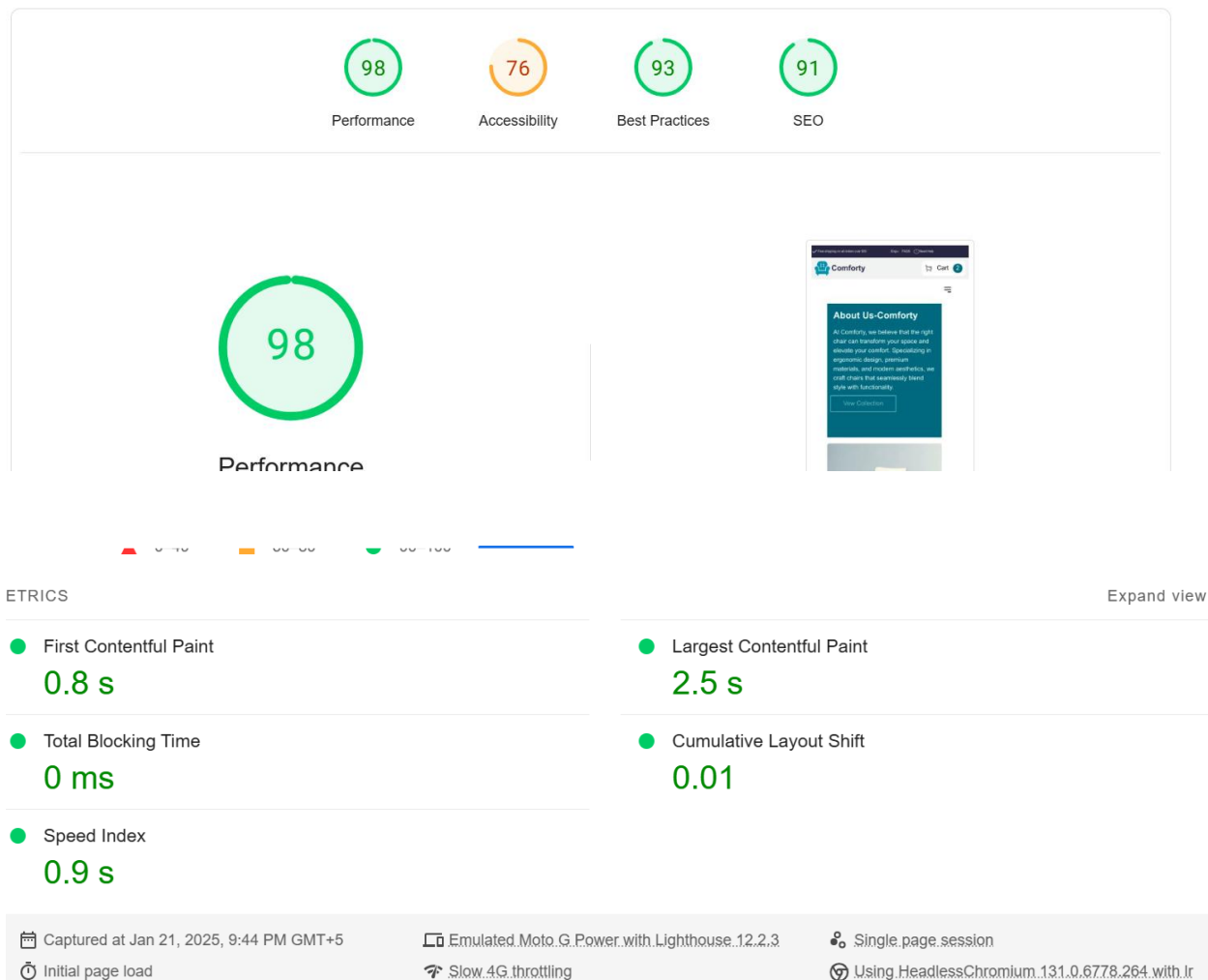
🕒 Initial page load

⚙️ Custom throttling

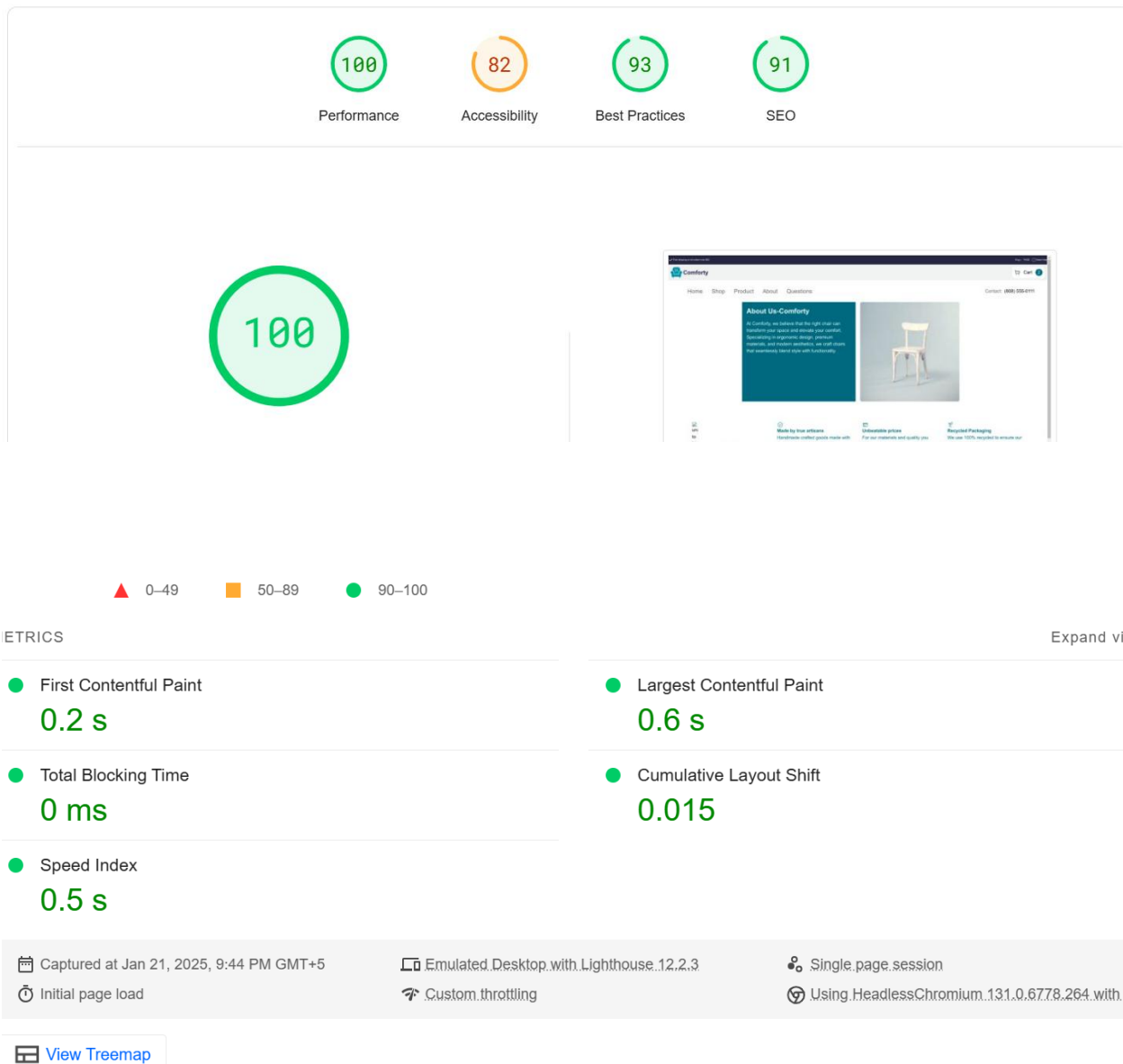
🔍 Using HeadlessChromium 131.0.6778.264 with Jr

For About page:

Small devices:



For desktop:



Test Case Report:

I have included the test case report and test case file in .csv format separately in the same folder.