

AMNA KAFEEL

00181761

HACKATHON

DAY-6

DEPLOYMENT PREPARATION AND STAGING ENVIRONMENT SETUP

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DEPLOYMENT OF PROJECT ON VERCEL AND GITHUB

"I HAVE SUCCESSFULLY DEPLOYED MY PROJECT ON VERCEL, A PLATFORM KNOWN FOR ITS SEAMLESS AND EFFICIENT DEPLOYMENT PROCESS. THE PROJECT IS NOW LIVE AND ACCESSIBLE VIA THE FOLLOWING LINK: [HTTPS://MY-FUNCTIONAL-E-COMMERCE-WEBSITE.VERCEL.APP/]. AND GITHUB [HTTPS://GITHUB.COM/AMNAKAFEEL/MY-FUNCTIONAL-E-COMMERCE-WEBSITE].

DURING THE DEPLOYMENT PROCESS, I FOLLOWED THESE STEPS:

Project Setup: Ensured my project was ready for deployment by verifying all files, dependencies, and configurations were correctly set up.

Connecting to Vercel: Linked my GitHub repository to Vercel for automated deployment.

Environment Configuration: Configured any necessary environment variables in the Vercel dashboard to ensure the application functions properly.

Deployment: Deployed the project through Vercel's intuitive interface, allowing it to build and host my application.

Testing the Live Version: Verified the deployed project to ensure all features, designs, and functionalities are working as intended.

This deployment demonstrates my ability to prepare a project for production and host it on a reliable platform like Vercel. The live link allows easy access to the project for review, testing, or public use

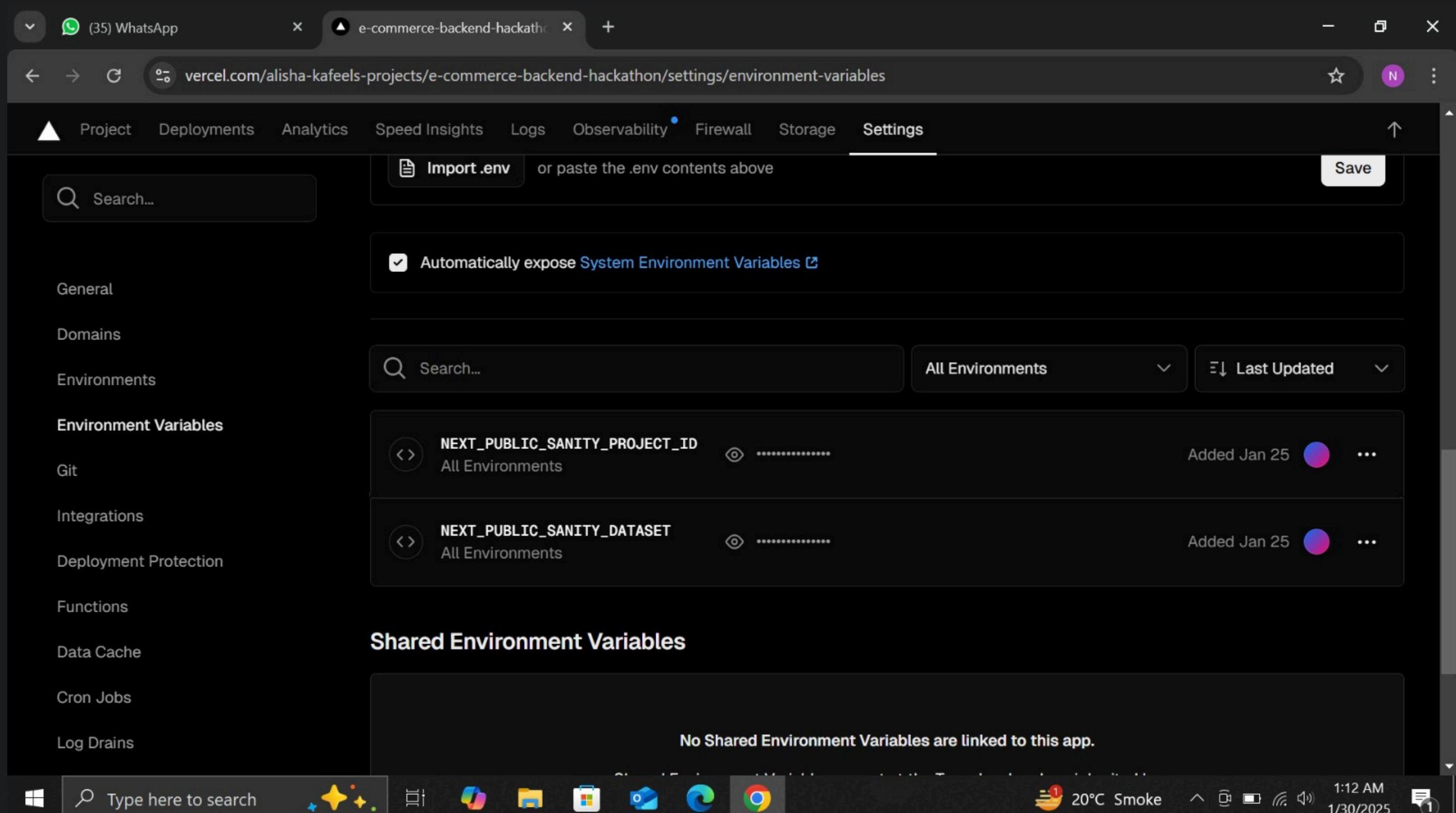
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Configuration of Environment Variables on Vercel

I have successfully created and configured the .env environment variables on Vercel. All sensitive data such as API keys, project IDs, and database URLs have been securely added through Vercel's dashboard under the Environment Variables section. This ensures secure access to the required data during deployment. Please see the attached image for reference.



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Staging Environment Testing Completion Report

1. Testing Performed:

Functional Testing: Verified workflows like product listing, cart, and checkout using Cypress and Postman. Performance Testing: Analyzed speed and load times using Lighthouse and GTmetrix. Security Testing: Checked for SQL injection, XSS, ensured HTTPS and secure API communication. Responsiveness Testing: Tested layout across devices using browser tools.

2. Test Results:

Documented test cases in a CSV format with ID, description, steps, expected/actual results, and status. Detailed results with images are included in the report.

The screenshot shows a browser window with multiple tabs open. The active tab is titled "Website Speed Test | Pingdom Tools" and displays the results for "tools.pingdom.com". The main area is titled "Your Results:" and shows a performance grade of "B 84", a page size of "221.2 KB", a load time of "152 ms", and 18 requests. Below this, there's a section titled "Improve page performance" with a table of suggestions:

GRADE	SUGGESTION
F 0	Compress components with gzip
D 64	Make fewer HTTP requests
A 100	Avoid empty src or href
A 100	Put JavaScript at bottom
A 100	Reduce the number of DOM elements
A 100	Make favicon small and cacheable
A 100	Avoid HTTP 404 (Not Found) error

At the bottom of the page, there's a "Response codes" section and a taskbar with various icons and system status indicators.

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Response codes

RESPONSE CODE	PERCENT	REQUESTS
200 OK	100.00%	18

Content size by content type

CONTENT TYPE	PERCENT	SIZE
Script	61.02%	135.0 KB
Font	27.73%	61.3 KB
Error	4.57%	10.1 KB
HTML	3.10%	6.9 KB
CSS	2.86%	6.3 KB
Image	0.71%	1.6 KB
Total	100.00%	221.2 KB

Requests by content type

CONTENT TYPE	PERCENT	REQUESTS
Script	66.67%	12
Font	11.11%	2
HTML	5.56%	1
Image	5.56%	1
CSS	5.56%	1
Error	5.56%	1
Total	100.00%	18

Content size by domain

CONTENT TYPE	PERCENT	SIZE
e-commerce-backend-hackatho...	100.00%	209.6 KB
Total	100.00%	209.6 KB

Requests by domain

CONTENT TYPE	PERCENT	REQUESTS
e-commerce-backend-hackatho...	100.00%	18
Total	100.00%	18

File requests

FILE	SIZE	STATE
https://e-commerce-backend-hackathon.vercel.app/	6.9 KB	DNS (purple) → SSL (blue) → Connect (green) → Send (yellow) → Wait (orange) → Receive (green)
https://e-commerce-backend-hackathon.vercel.app/_n...	29.2 KB	SSL (blue) → Connect (green) → Send (yellow) → Wait (orange) → Receive (green)
https://e-commerce-backend-hackathon.vercel.app/_n...	32.1 KB	SSL (blue) → Connect (green) → Send (yellow) → Wait (orange) → Receive (green)
https://e-commerce-backend-hackathon.vercel.app/_n...	2.8 KB	SSL (blue) → Connect (green) → Send (yellow) → Wait (orange) → Receive (green)
https://e-commerce-backend-hackathon.vercel.app/_n...	6.3 KB	SSL (blue) → Connect (green) → Send (yellow) → Wait (orange) → Receive (green)
https://e-commerce-backend-hackathon.vercel.app/_n...	1.4 KB	SSL (blue) → Connect (green) → Send (yellow) → Wait (orange) → Receive (green)
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https://e-commerce-backend-hackathon.vercel.app/_n...	1.6 KB	SSL (blue) → Connect (green) → Send (yellow) → Wait (orange) → Receive (green)
https://e-commerce-backend-hackathon.vercel.app/_n...	1.5 KB	SSL (blue) → Connect (green) → Send (yellow) → Wait (orange) → Receive (green)
https://e-commerce-backend-hackathon.vercel.app/_n...	55.1 KB	SSL (blue) → Connect (green) → Send (yellow) → Wait (orange) → Receive (green)

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Nobody Likes a Slow Website

We built this Website Speed Test to help you analyze your website load

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State Colors

The following colors are used in the chart bars to indicate the different stages of a request.

STATE	COLOR
DNS	Purple
SSL	Blue
Connect	Green
Send	Yellow
Wait	Orange
Receive	Green
Blocked	Grey