TASK FOR Day: 006

Deployment Preparation and Staging Environment Setup (Vercel).

Vercel is a popular platform for deploying front-end applications, especially those built with frameworks like Next.js. Below are the steps to prepare for deployment and set up a staging environment on Vercel.

Connect Git Repository .

1-Click **New Project** in the Vercel dashboard.
2-Import the repository from **GitHub, GitLab, or Bitbucket**.
3-Configure project settings as needed.

Preview and Test the Staging Deployment .

1-Once deployed, Vercel provides a unique **preview URL**.
2-Open the URL and test the application thoroughly.

Environment Variable Errors.

1-Errors can also occur due to environmental variables not properly set.

"Environment Variable Not Found"
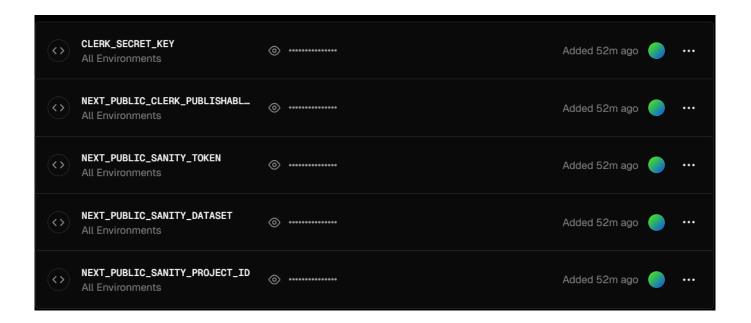Errors: process.env.API_KEY is undefined

Solution:

1-Set environment variables in **Vercel Dashboard** under **Project Settings > Environment Variables**.

2-Ensure they match the variables in `.env.local`.

3-Redeploy after adding variables.

Setting Up Environment Variables Securely in Vercel.

Environment variables store sensitive data like API keys, database credentials, and configuration settings. Setting them up securely ensures that private information is not exposed in the codebase.
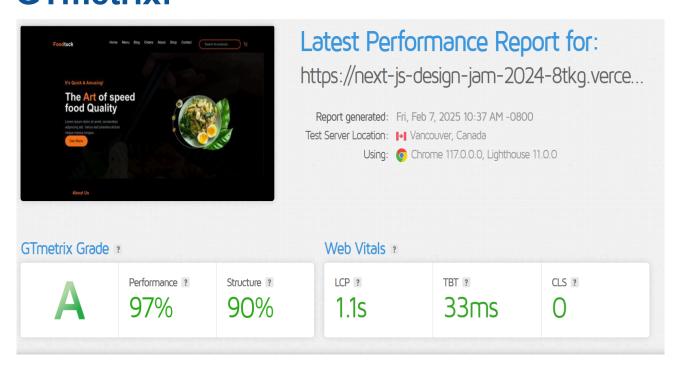
For Example:

Environment variables store sensitive data like API keys, database credentials, and configuration settings. Setting them up securely ensures that private information is not exposed in the codebase.

CLERK_SECRET_KEY
All Environments ⊙ ··············· Added 52m ago ⋯

NEXT_PUBLIC_CLERK_PUBLISHABL…
All Environments ⊙ ··············· Added 52m ago ⋯

NEXT_PUBLIC_SANITY_TOKEN
All Environments ⊙ ··············· Added 52m ago ⋯

NEXT_PUBLIC_SANITY_DATASET
All Environments ⊙ ··············· Added 52m ago ⋯

NEXT_PUBLIC_SANITY_PROJECT_ID
All Environments ⊙ ··············· Added 52m ago ⋯

Performance Testing Tool Used: GTmetrix:

Latest Performance Report for:
https://next-js-design-jam-2024-8tkg.verce...

Report generated: Fri, Feb 7, 2025 10:37 AM -0800
Test Server Location: 🇨🇦 Vancouver, Canada
Using: Chrome 117.0.0.0, Lighthouse 11.0.0

GTmetrix Grade ?

A	Performance ?	Structure ?
	97%	90%

Web Vitals ?

LCP ?	TBT ?	CLS ?
1.1s	33ms	0

Checklist for Day 6:

Deployment Preparation:
✔

Staging Environment Testing:
✔

Documentation:
✔

Form Submission:
✔

Final Review:
✔