Aim: Design an application using Cloud Services to apply DevOps Concept

Objective:

Host a static web project (HTML, CSS, JavaScript) using GitHub Pages.

Enable users to search for word definitions using an external dictionary API.

Description:

The Dictionary App is a lightweight frontend web application that allows users to search for the meaning, part of speech, example, and antonyms of a word using the public Dictionary API (https://api.dictionaryapi.dev/). It is developed using HTML, CSS, and JavaScript. The app includes features like:

- Form-based word input
- API data fetching and rendering
- Error handling with toast messages
- Dark mode toggle

The project is hosted using GitHub Pages, a free static site hosting service provided by GitHub.

Implementation:

Develop the Web App:

- Write the HTML for structure (index.html), CSS for styling (style.css), and JavaScript (script.js) for functionality.

Push the Code to GitHub:

- Create a new repository (e.g., dictionary-app).
- Push all project files to the root directory of the repository:

git init

git remote add origin https://github.com/your-username/app-name.git

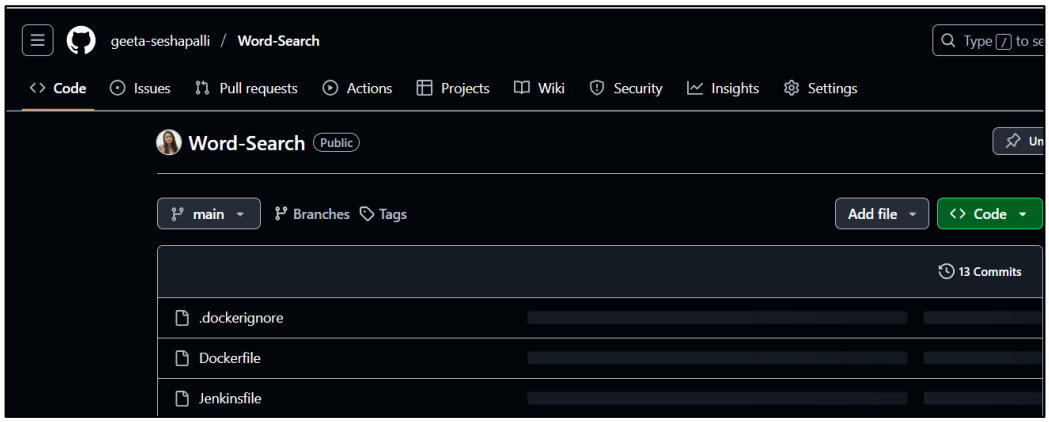
git add .

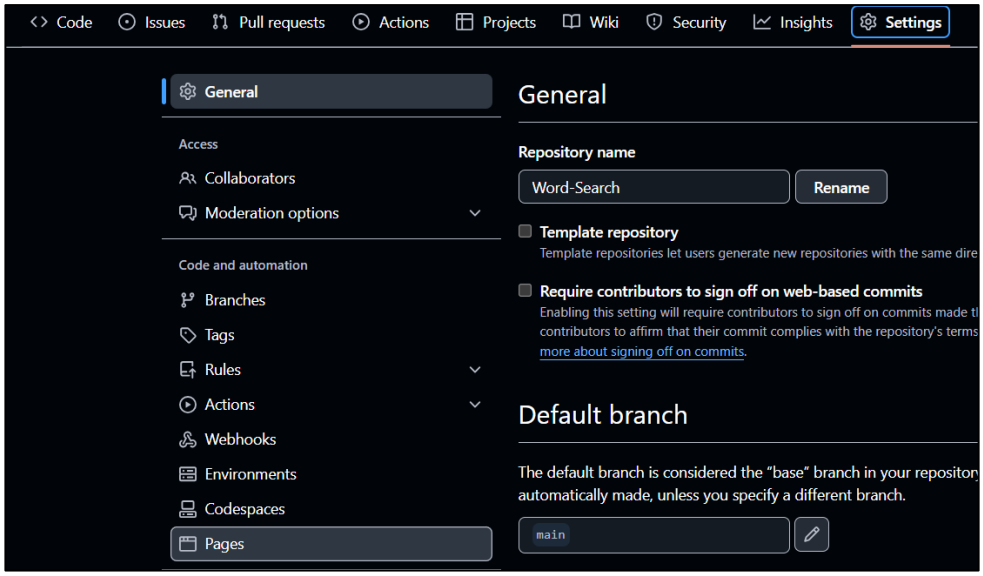
git commit -m "Initial commit"

git push -u origin main

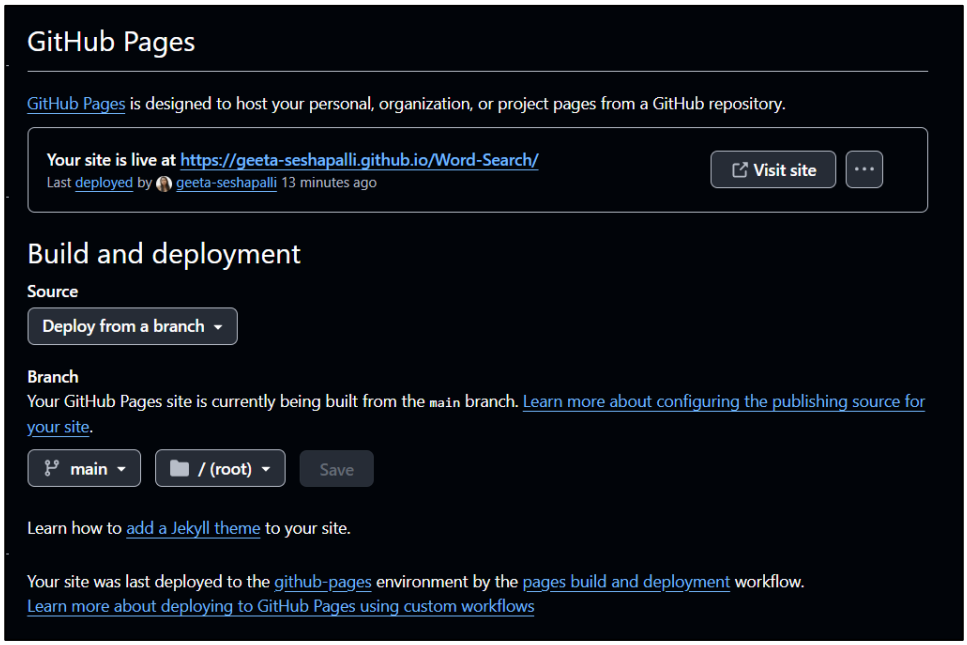
Enable GitHub Pages:

- Go to the repository → Settings → Pages





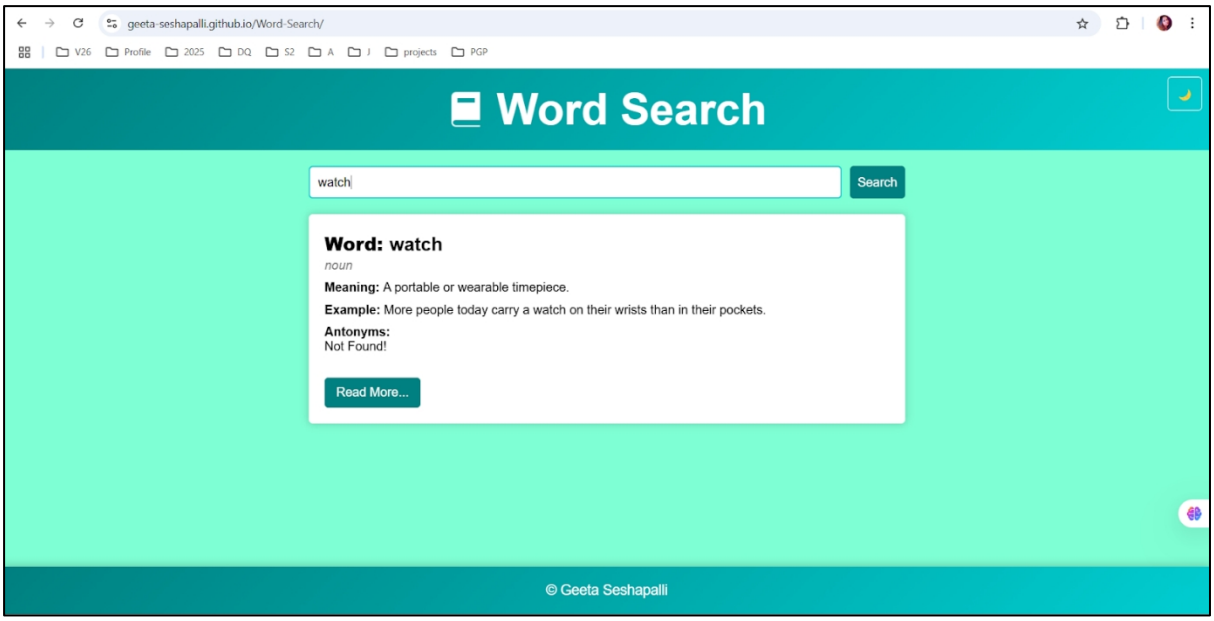
- Under Source, choose main branch and / (root) folder



- Click Save
- Wait for GitHub to deploy your site and provide a live URL

Verify the Deployment:

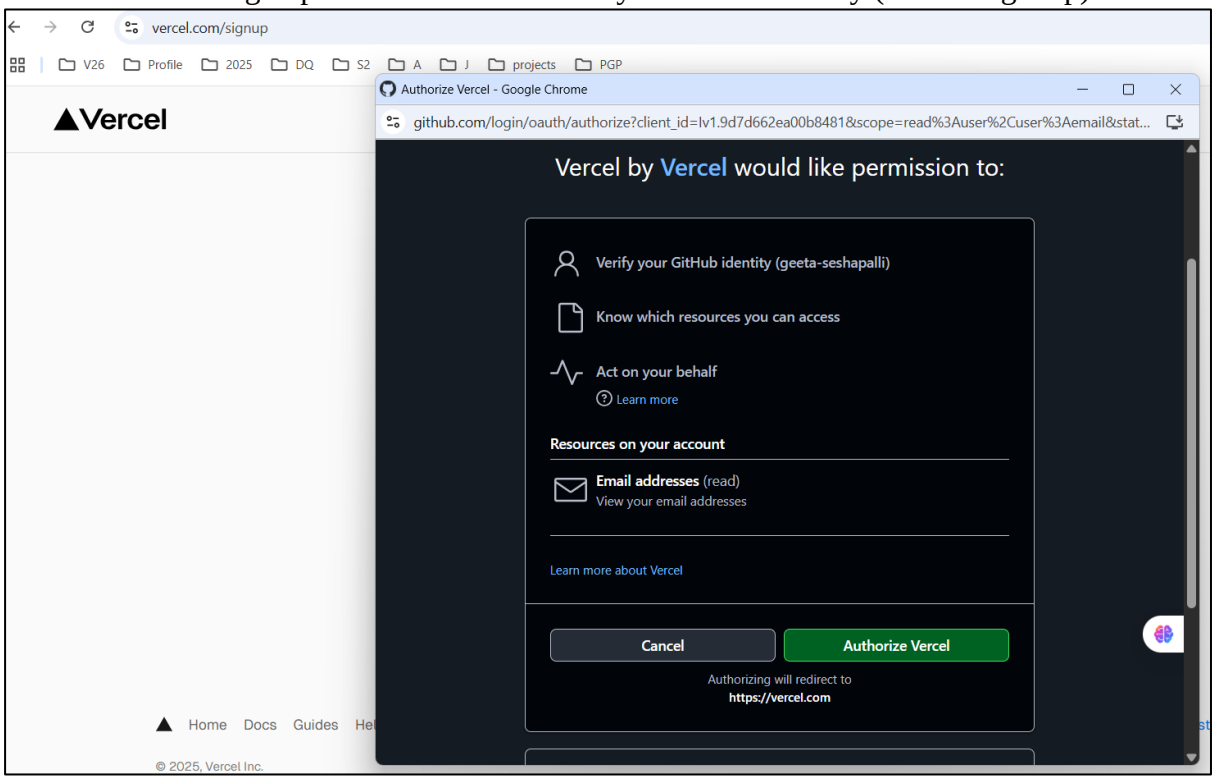
- Access the provided GitHub Pages URL (e.g., https://your-username.github.io/dictionary-app/)
- Test the word search, dark mode toggle, and toast messages



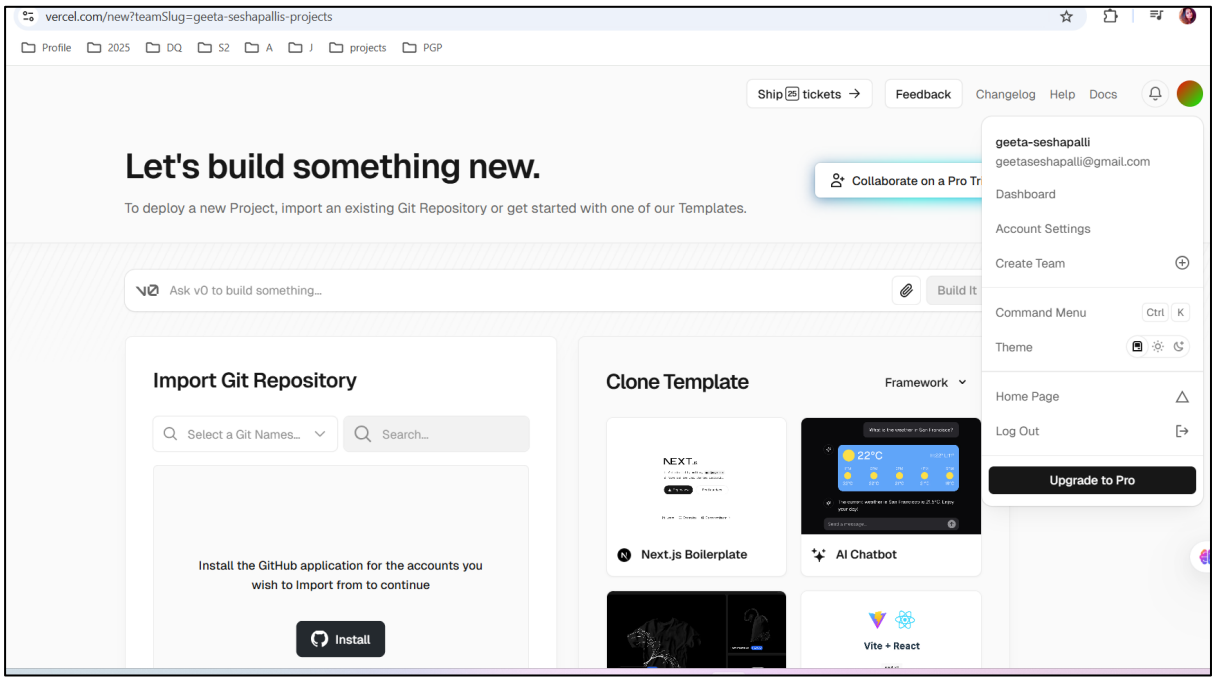
LIVE LINK: https://geeta-seshapalli.github.io/Word-Search/

VERCEL CLOUD DEPLOYMENT:

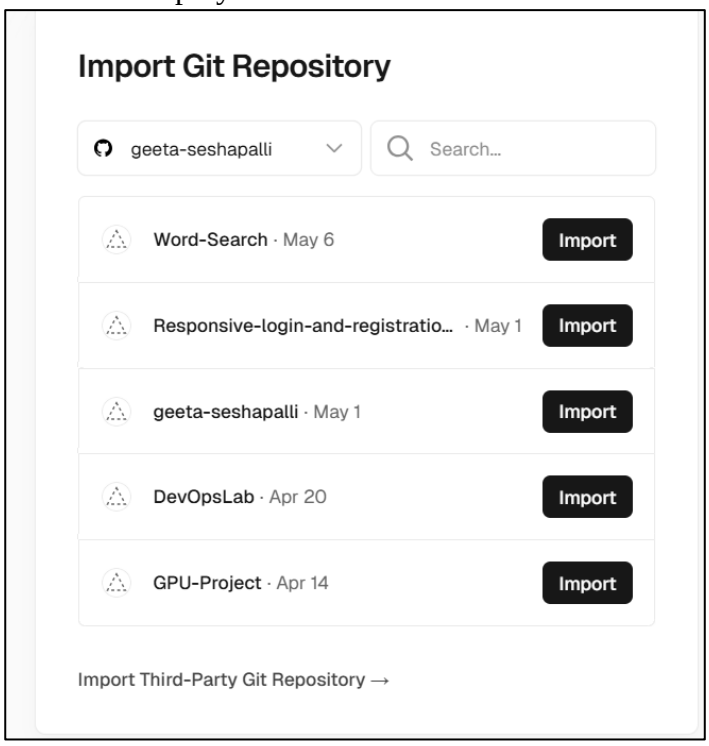
- Vercel Account: Sign up for a Vercel account if you haven't already (Vercel Sign Up).



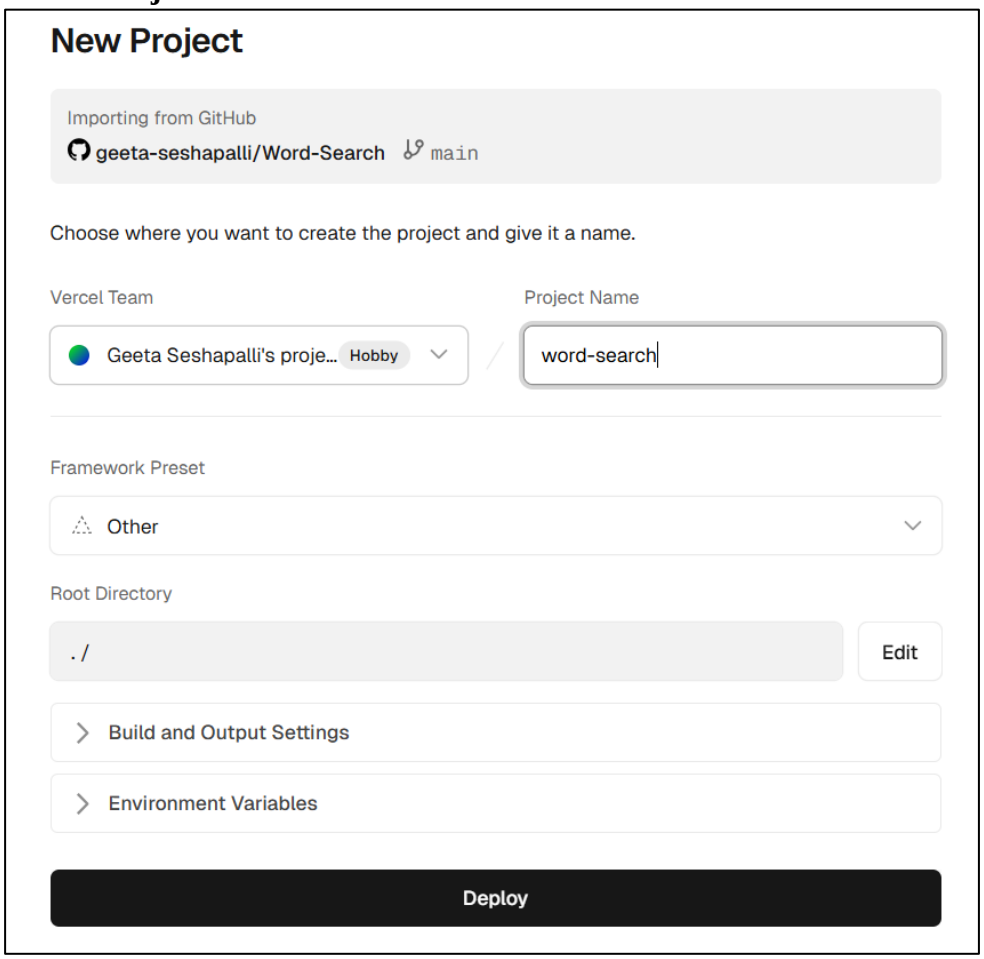
- Import your repository from GitHub, GitLab, or Bitbucket.



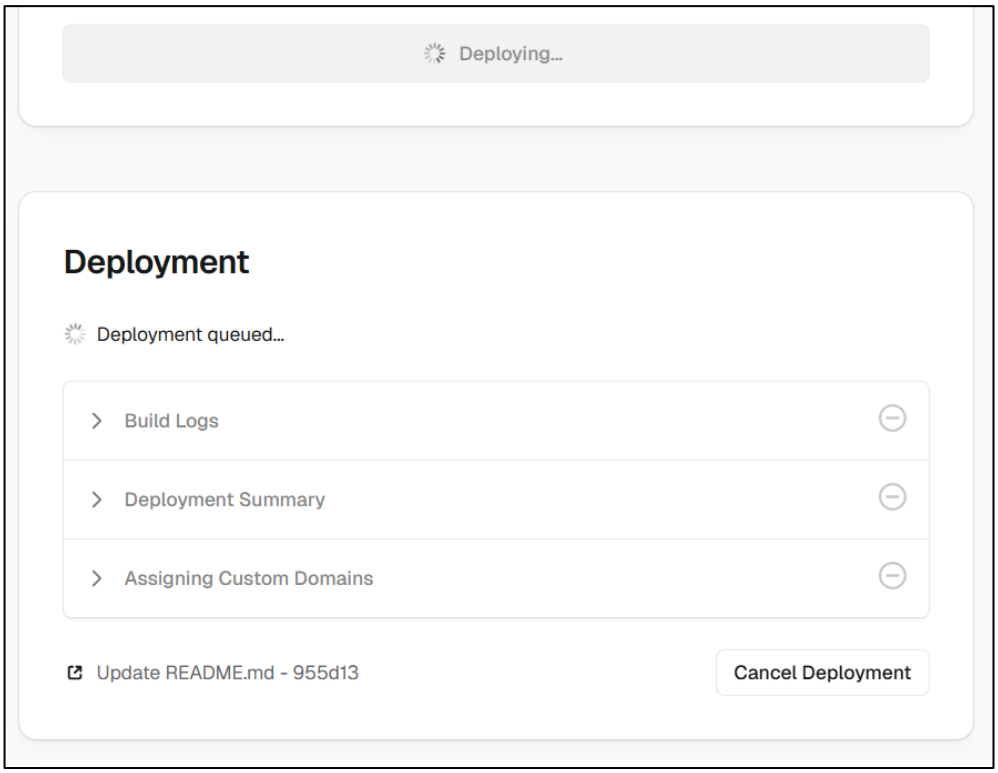
- GitHub, GitLab, or Bitbucket Account: Vercel can pull code directly from these repositories for automated deployment.



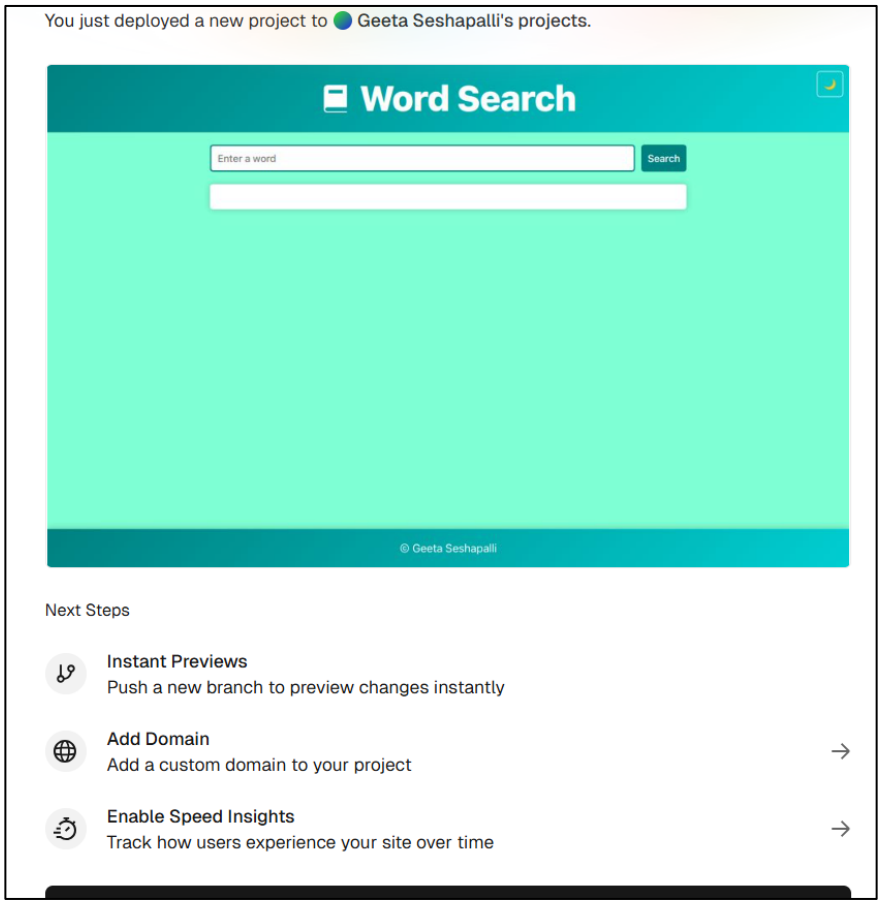
- Click **"New Project"**.

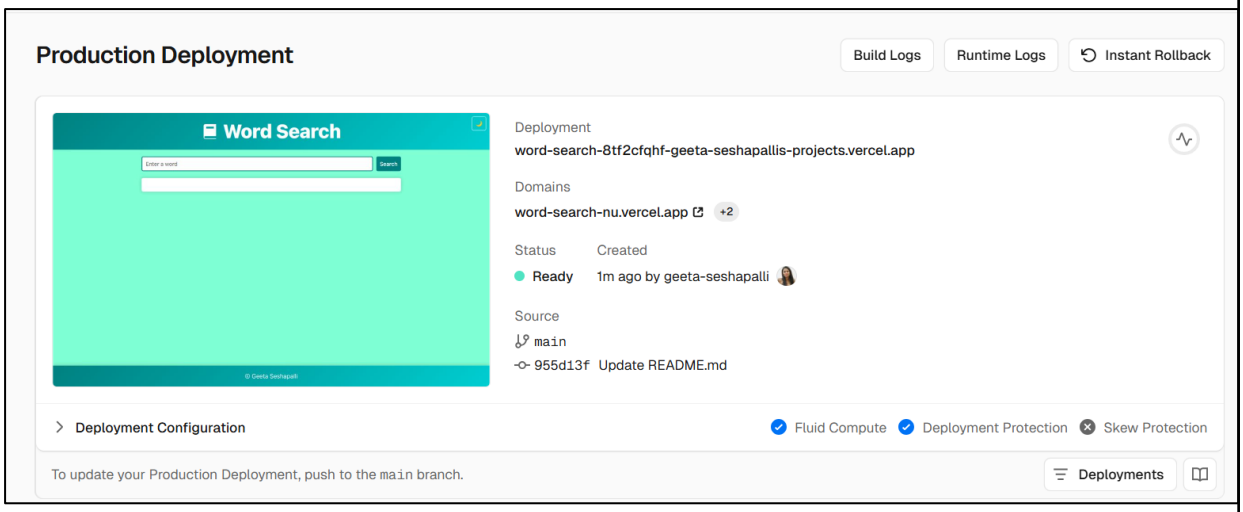


- Click **"Deploy"**

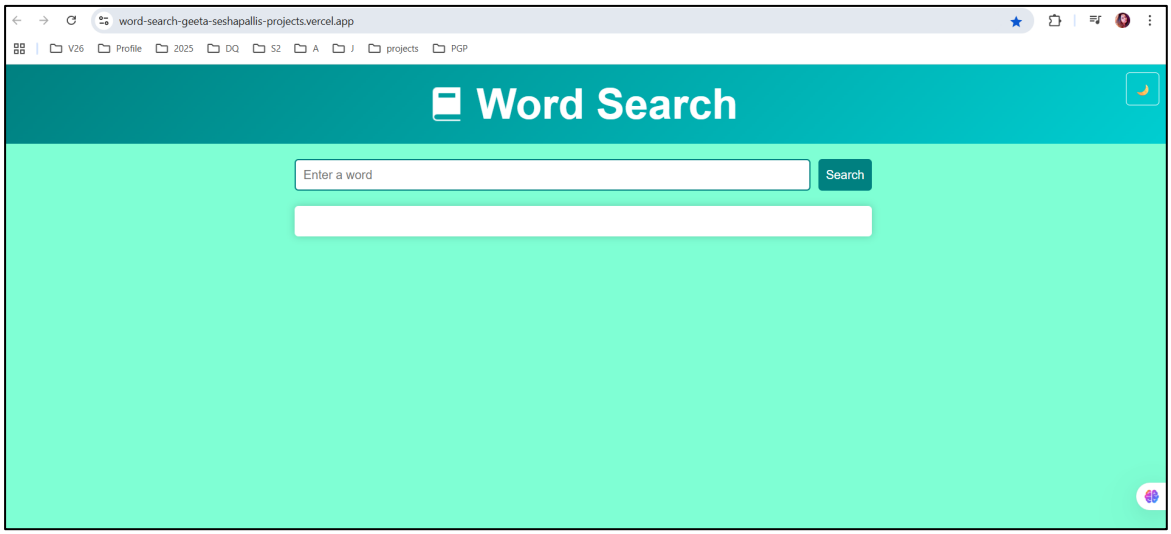


- Vercel will start the build and deployment process, displaying real-time logs.



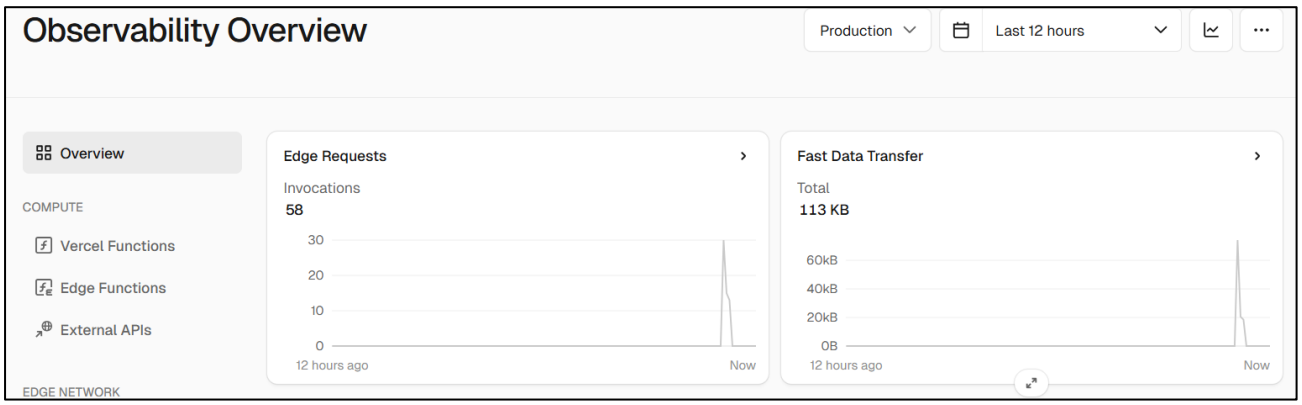


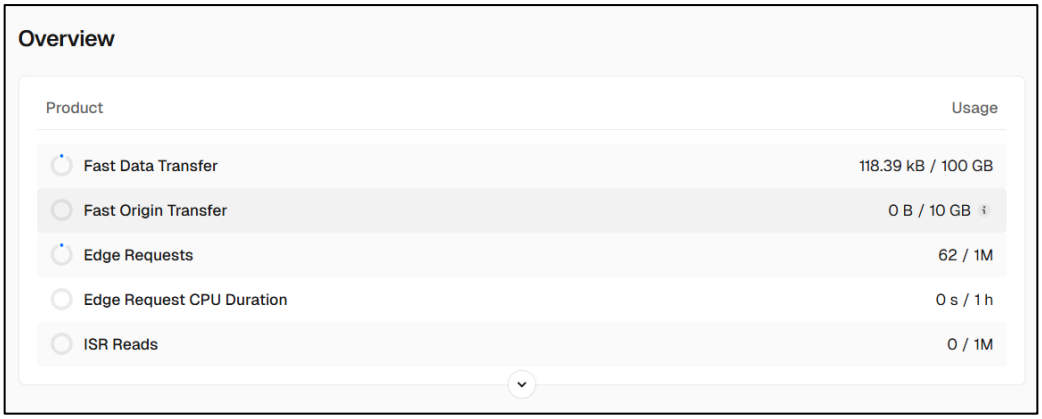
- Visit the provided live URL to verify the site.

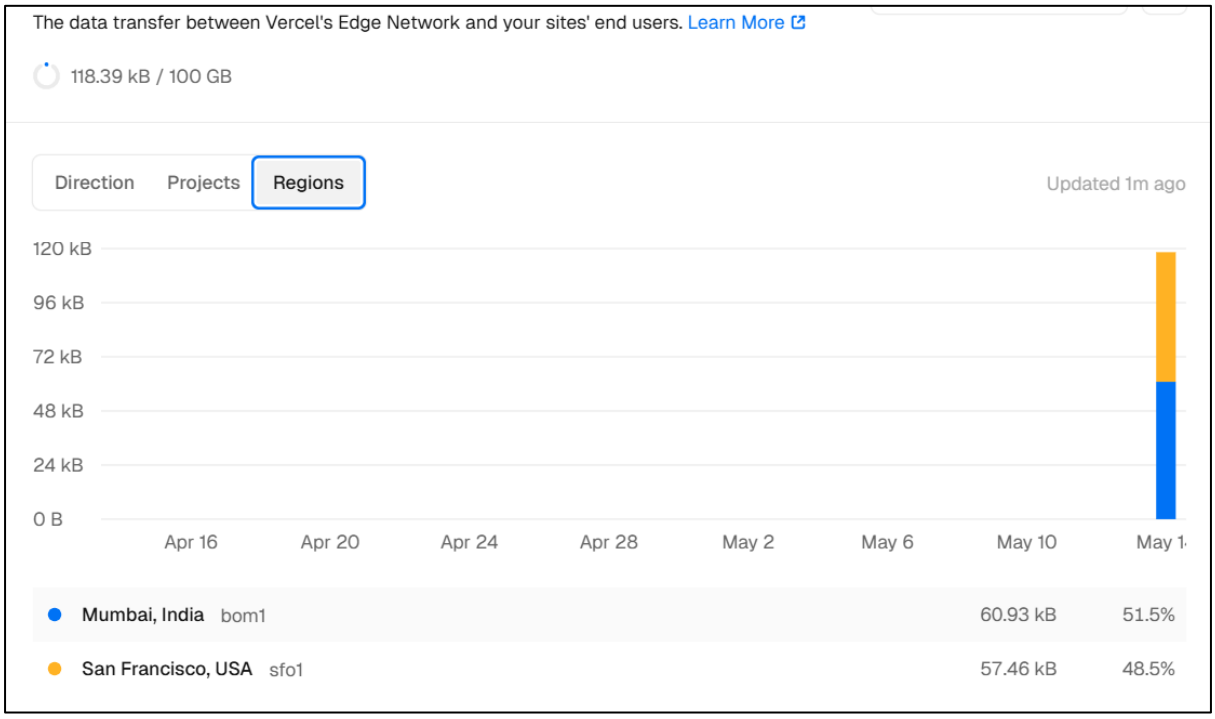


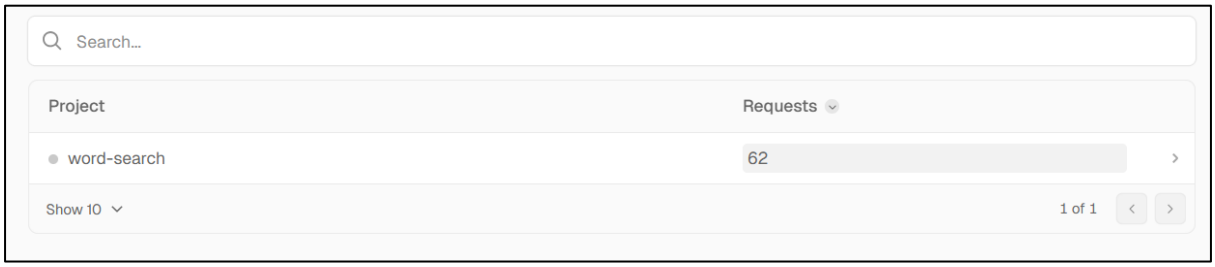
LINK: https://word-search-geeta-seshapallis-projects.vercel.app/

Cloud Monitoring









Conclusion:

The Dictionary App was successfully deployed using GitHub Pages, making it publicly accessible. GitHub Pages provided a simple and efficient way to host a static web application without the need for backend servers. The deployment confirmed that the application works as expected, with interactive features and a responsive UI available to any user via a web browser.