Name : Niddhi Rijhwani
Class : D15B Roll No : 47
Subject : MPL Exp 10

Aim: To study and implement deployment of Ecommerce PWA to GitHub Pages.

Theory :
Deployment of Ecommerce PWA to GitHub Pages :
Progressive Web Apps (PWAs) are modern web applications that offer users a native app-like experience while maintaining the accessibility and performance of a web page. They are designed to work offline, load quickly, and provide a reliable experience, making them ideal for ecommerce platforms.

To deploy an Ecommerce PWA to GitHub Pages :

1. **Build the Ecommerce PWA :** Create your ecommerce app using HTML, CSS, JavaScript, or frameworks like React, Angular, or Vue.js. Implement key PWA features like service workers for offline functionality and a manifest.json file for app installation on user devices.

2. **Prepare for Deployment :** Ensure that your app is production-ready by building the project using commands like npm run build. This generates the static files (HTML, CSS, JS) that are ready for hosting.

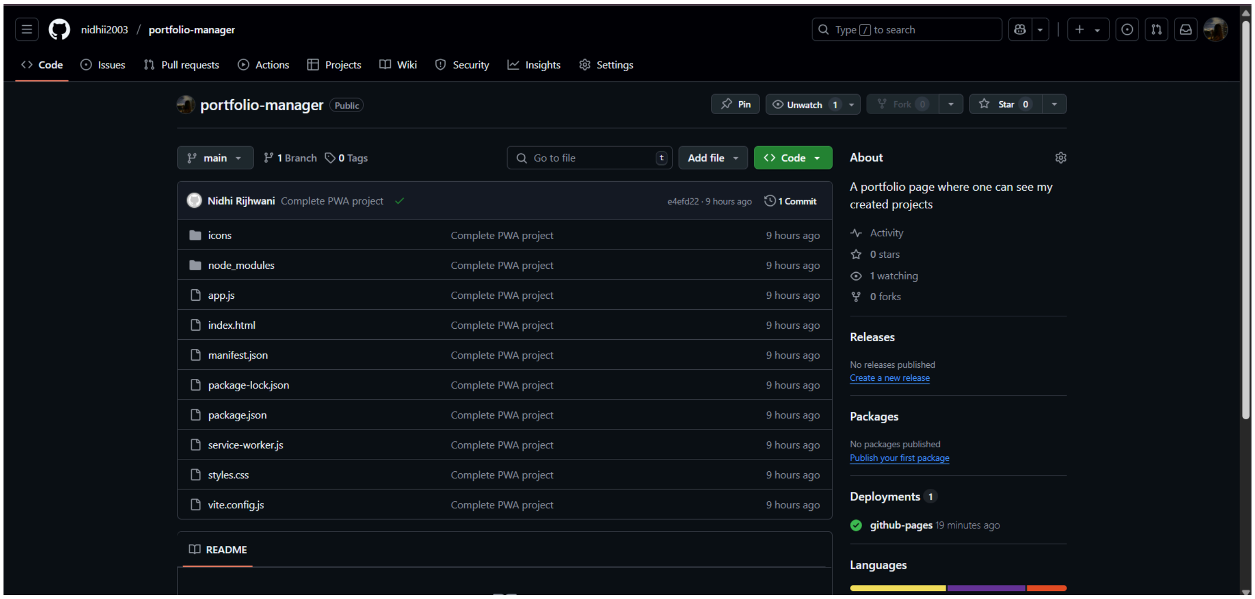
3. **Push Code to GitHub :** Create a GitHub repository, push your project files (including the build folder), and set up the necessary configuration files like package.json.

4. **Configure GitHub Pages :** In the repository’s settings, enable GitHub Pages and configure it to serve content from the gh-pages branch. This makes your app publicly accessible.

5. **Ensure Correct URLs and Caching :** Make sure URLs in your app are correctly linked to prevent issues with broken paths, especially when deployed. The service worker should handle caching of important assets for optimal offline performance.

6. **Test and Deploy :** Once deployed, test your PWA across different devices and browsers to ensure smooth functionality, including offline capabilities and quick loading.

Output :



portfolio-manager Public

Nidhi Rijhwani Complete PWA project ✓ e4efd22 · 9 hours ago 1 Commit

icons	Complete PWA project	9 hours ago
node_modules	Complete PWA project	9 hours ago
app.js	Complete PWA project	9 hours ago
index.html	Complete PWA project	9 hours ago
manifest.json	Complete PWA project	9 hours ago
package-lock.json	Complete PWA project	9 hours ago
package.json	Complete PWA project	9 hours ago
service-worker.js	Complete PWA project	9 hours ago
styles.css	Complete PWA project	9 hours ago
vite.config.js	Complete PWA project	9 hours ago

About

A portfolio page where one can see my created projects

Activity
0 stars
1 watching
0 forks

Releases

No releases published
Create a new release

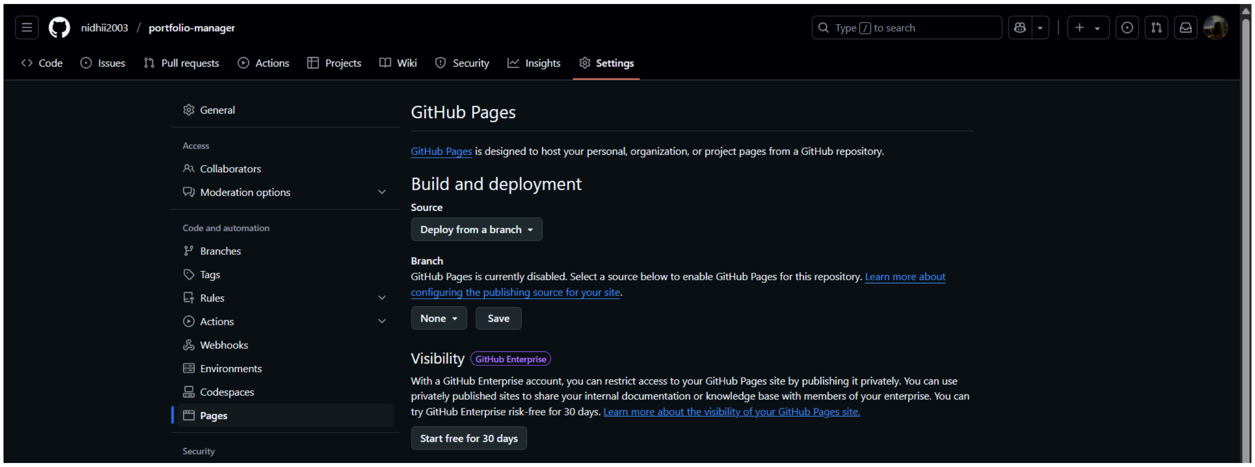
Packages

No packages published
Publish your first package

Deployments 1

github-pages 19 minutes ago

Languages



GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Build and deployment

Source

Deploy from a branch

Branch

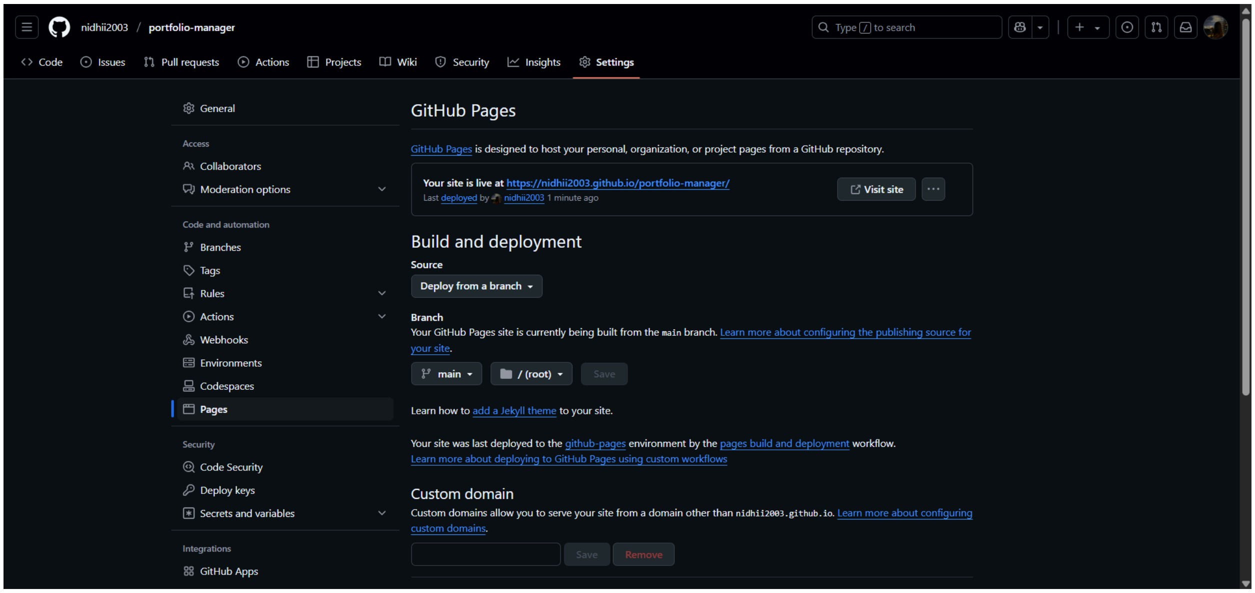
GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. Learn more about configuring the publishing source for your site.

None Save

Visibility GitHub Enterprise

With a GitHub Enterprise account, you can restrict access to your GitHub Pages site by publishing it privately. You can use privately published sites to share your internal documentation or knowledge base with members of your enterprise. You can try GitHub Enterprise risk-free for 30 days. Learn more about the visibility of your GitHub Pages site.

Start free for 30 days



GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Your site is live at https://nidhii2003.github.io/portfolio-manager/
Last deployed by nidhii2003 1 minute ago

Build and deployment

Source

Deploy from a branch

Branch

Your GitHub Pages site is currently being built from the `main` branch. Learn more about configuring the publishing source for your site.

main / (root) Save

Learn how to add a Jekyll theme to your site.

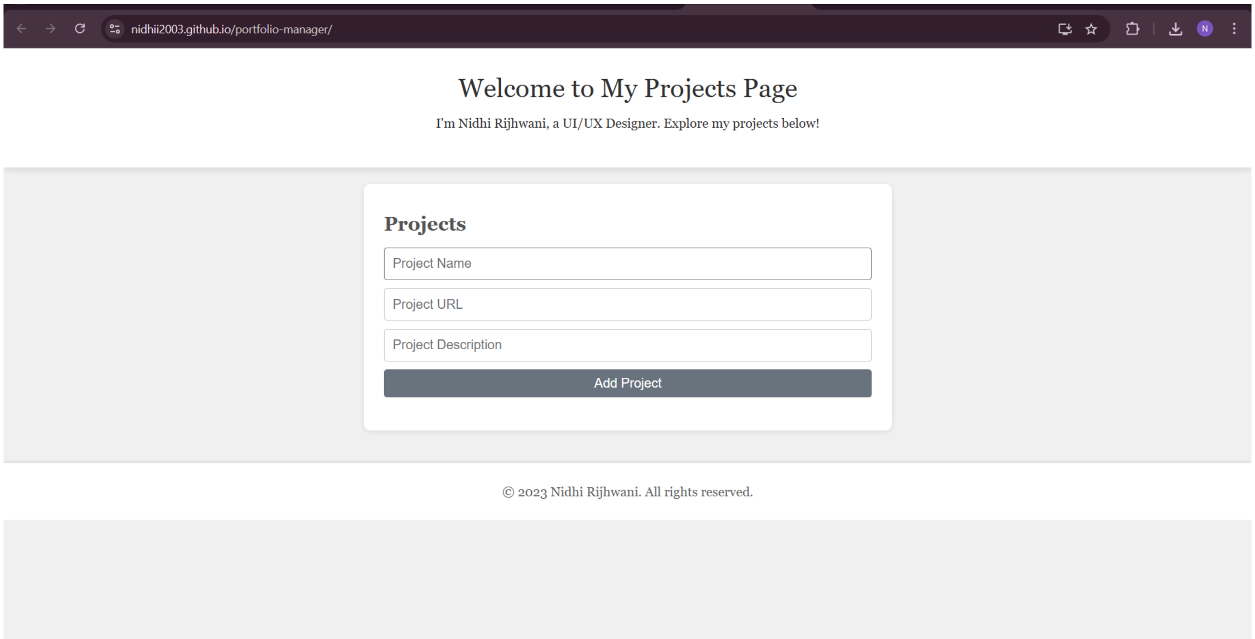
Your site was last deployed to the github-pages environment by the pages build and deployment workflow.
Learn more about deploying to GitHub Pages using custom workflows

Custom domain

Custom domains allow you to serve your site from a domain other than `nidhii2003.github.io`. Learn more about configuring custom domains.

Save Remove

Link : https://nidhii2003.github.io/portfolio-manager/



Welcome to My Projects Page

I'm Nidhi Rijhwani, a UI/UX Designer. Explore my projects below!

Projects

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Conclusion :

In conclusion, deploying an Ecommerce PWA to GitHub Pages offers a simple, cost-effective way to provide users with a fast, reliable, and app-like experience. By leveraging GitHub Pages for hosting, you can easily deploy a PWA that works offline, loads quickly, and offers smooth navigation, leading to better user engagement. This method also ensures your ecommerce site is accessible across all devices, enhancing the overall user experience. Using service workers and caching mechanisms further boosts performance, making this approach ideal for modern, scalable ecommerce platforms.