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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.

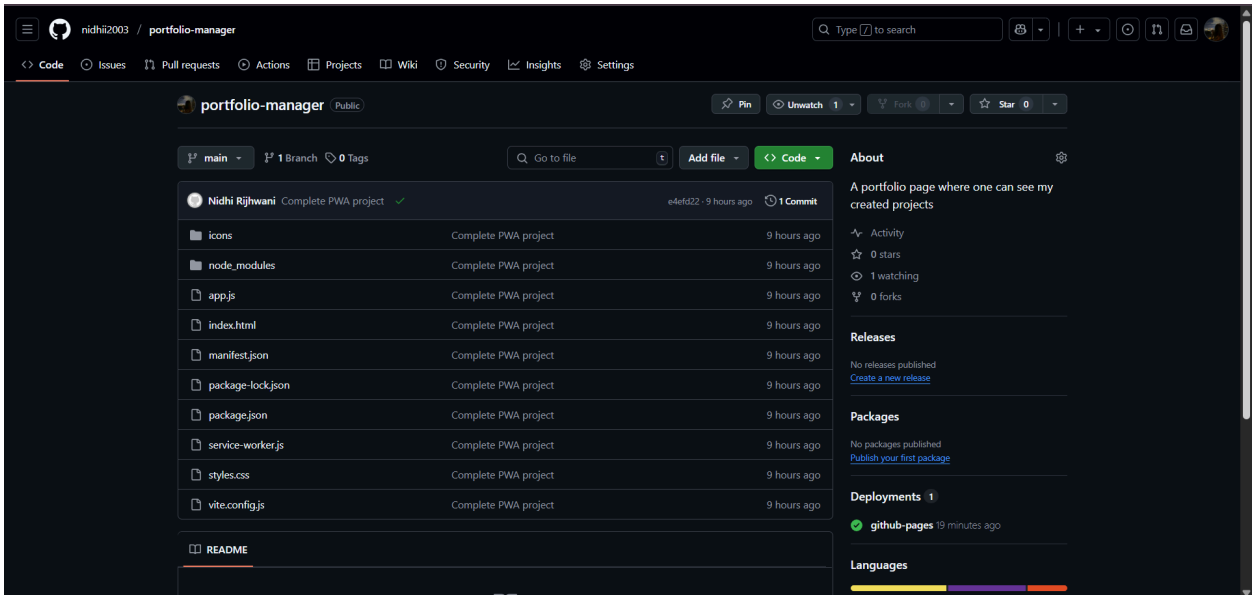
3. **Push Code to GitHub :** Create a GitHub repository, push your project files (including the build folder), and set up the necessary configuration files like package.json.

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 :


nidhii2003 / portfolio-manager
Type / to search
Code
Issues
Pull requests
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Security
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portfolio-manager
Public
Pin
Unwatch 1
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1 Branch
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Add file
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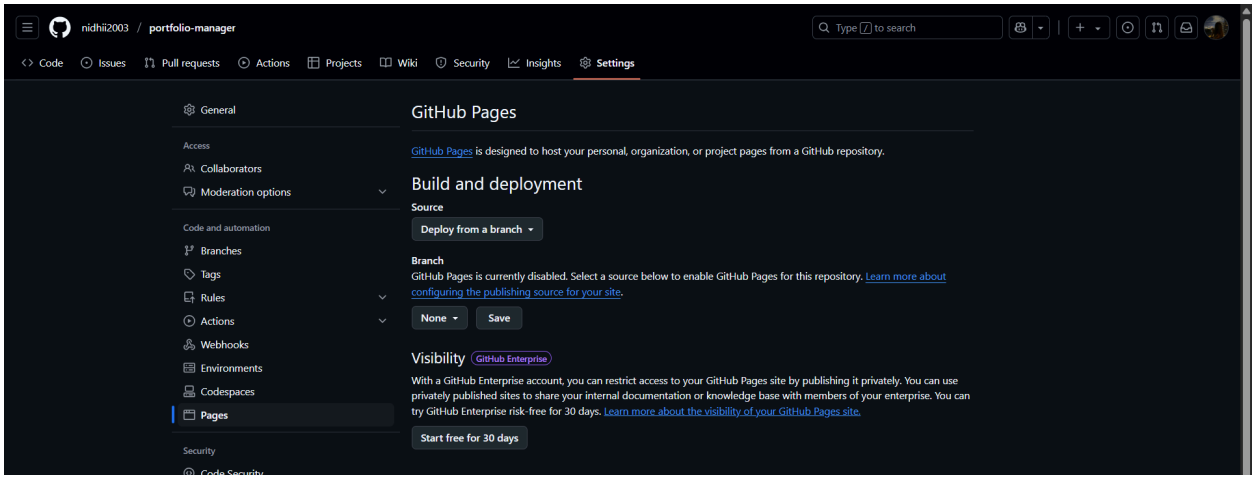
Nidhi Rijhwani Complete PWA project
e4efd22 · 9 hours ago
1 Commit
icons Complete PWA project 9 hours ago
node_modules Complete PWA project 9 hours ago
app.js Complete PWA project 9 hours ago
index.html Complete PWA project 9 hours ago
manifest.json Complete PWA project 9 hours ago
package-lock.json 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
README
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


nidhii2003 / portfolio-manager
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Code
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Insights
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General
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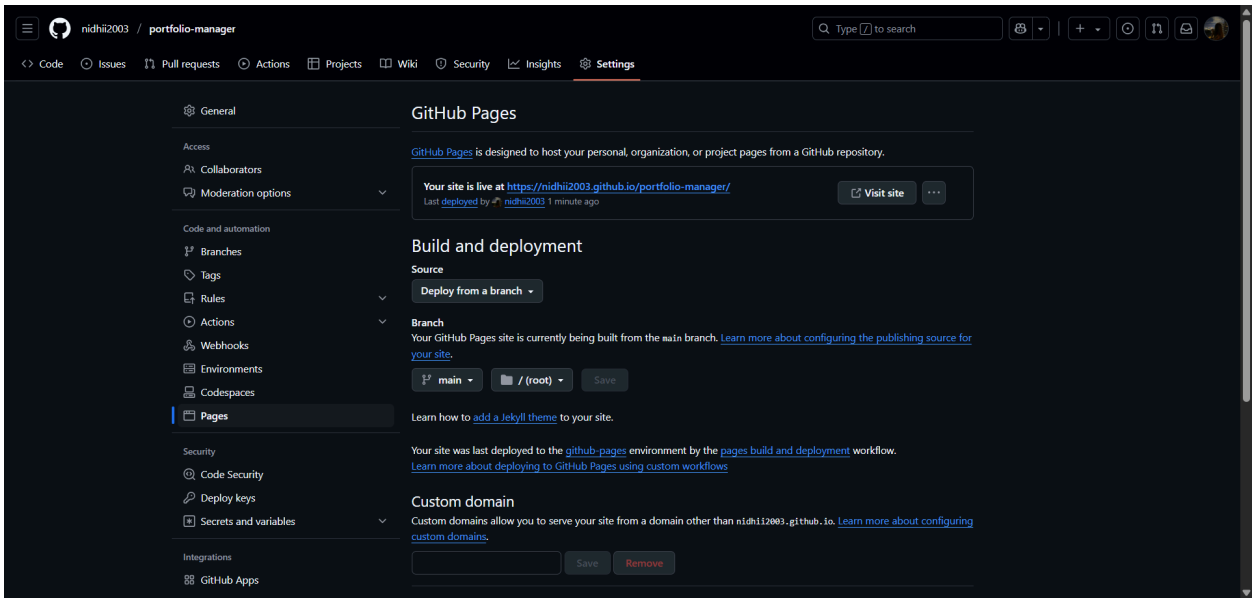
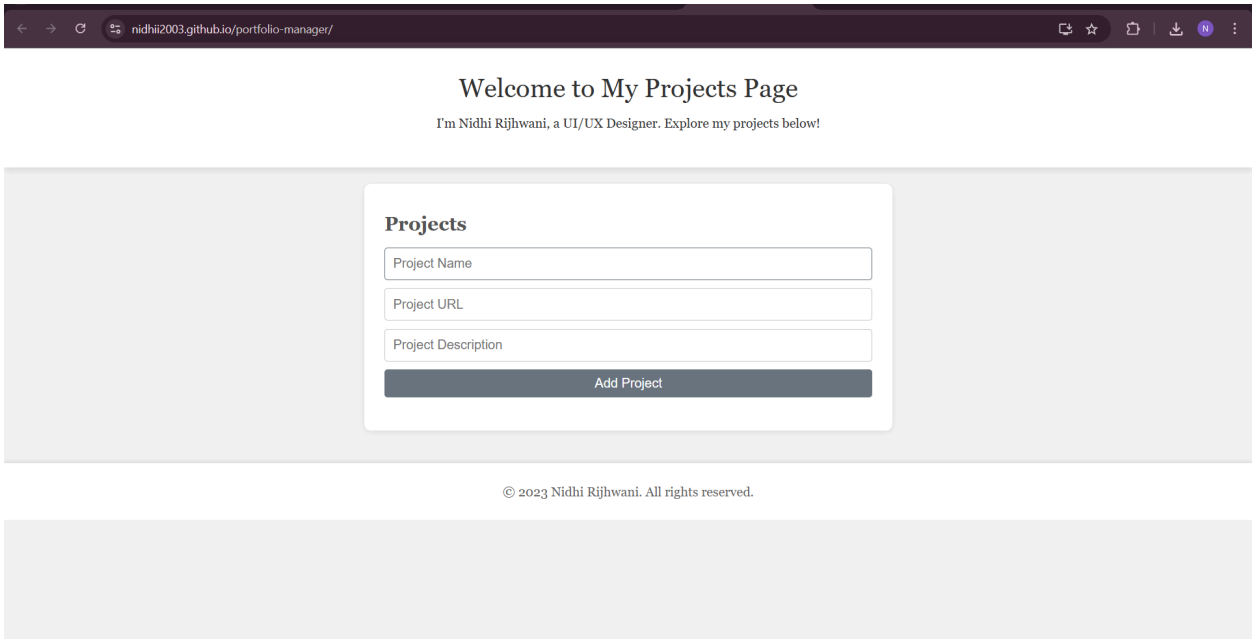
Collaborators
Moderation options
Code and automation
Branches
Tags
Rules
Actions
Webhooks
Environments
Codespaces
Pages
Security
GitHub Pages
GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.
Build and deployment
Source
Deploy from a branch
Branch
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



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



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.