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MPL Practical 10

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

Theory:

GitHub Pages is a free hosting service provided by GitHub to publish static websites directly from a GitHub repository. It supports HTML, CSS, JavaScript, and other front-end files, making it ideal for hosting PWAs.

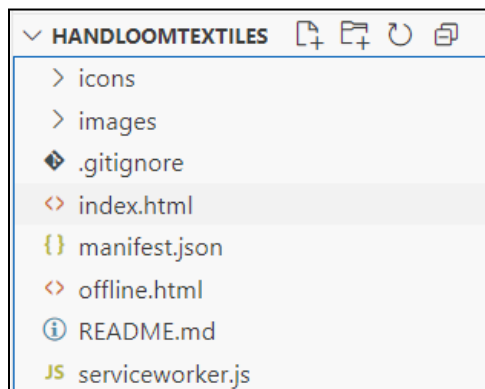
What we implemented in our code

In this experiment, we deployed our E-commerce PWA project, "Maharashtrian Handloom & Textiles", to GitHub Pages using these steps:

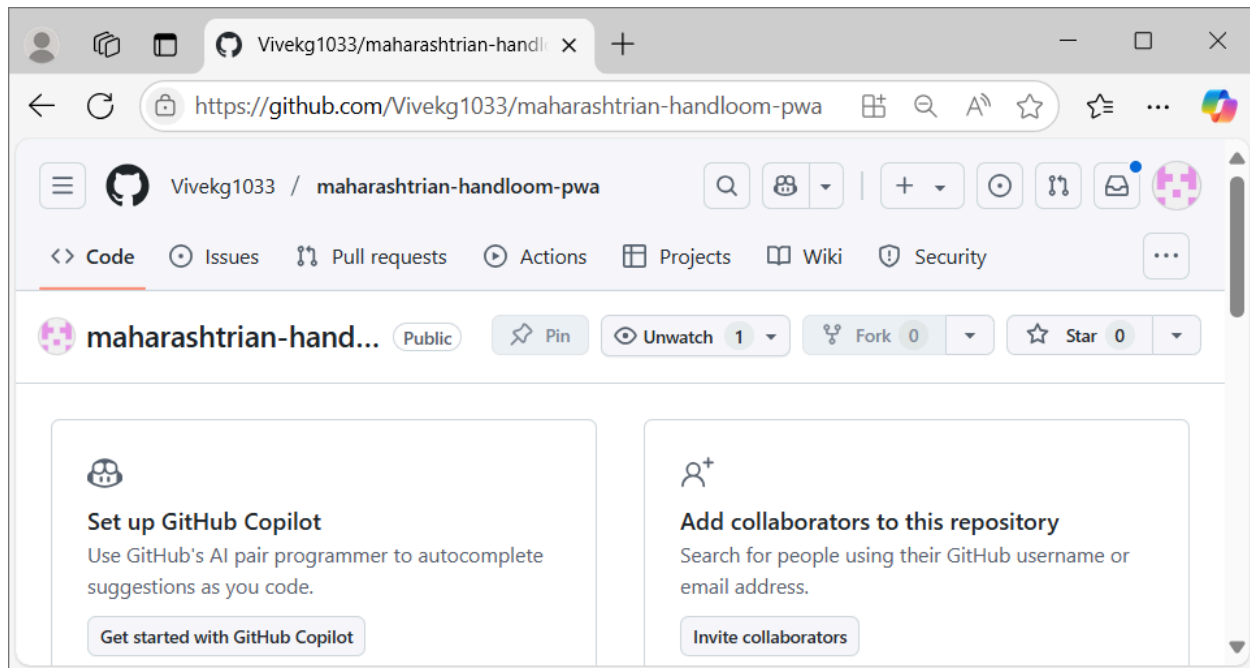
- We ensured all necessary PWA files were in place, such as index.html, manifest.json, serviceworker.js, and offline assets.
- The index.html file used relative paths correctly so resources load properly after deployment.
- We registered the service worker to enable offline access and caching of essential files.
- The manifest.json provided metadata to support "Add to Home Screen" functionality.
- We created a GitHub repository and pushed all project files to it.
- Then, from GitHub Settings → Pages, we selected the main branch and the / (root) folder as the source.
- After saving, GitHub generated a live link through which we accessed the deployed PWA.

This deployment made our PWA fully functional and accessible online with service worker support, offline capabilities, and installability features.

Folder Structure



Create a GitHub Repository



Link Your Local Project to GitHub and Push Changes.

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE
PS D:\Users\Vivek\Documents\HandloomTextiles> git add .
warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touches it
PS D:\Users\Vivek\Documents\HandloomTextiles> git commit -m "Initial PWA project for GitHub Pages"
[main (root-commit) 62b0569] Initial PWA project for GitHub Pages
24 files changed, 1234 insertions(+)
```

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE
PS D:\Users\Vivek\Documents\HandloomTextiles> git remote add origin https://github.com/Vivekg1033/maharashtrian-handloom-pwa.git
PS D:\Users\Vivek\Documents\HandloomTextiles> git branch -M main
PS D:\Users\Vivek\Documents\HandloomTextiles> git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 28, done.
Counting objects: 100% (28/28), done.
Delta compression using up to 4 threads
Compressing objects: 100% (28/28), done.
Writing objects: 100% (28/28), 799.54 KiB | 5.29 MiB/s, done.
Total 28 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Vivekg1033/maharashtrian-handloom-pwa.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS D:\Users\Vivek\Documents\HandloomTextiles>
```

Browser window showing the GitHub repository page for `Vivekg1033/maharashtrian-handloom-pwa`. The repository is public and contains files for an initial PWA project.

Repository details:

- Repository: `maharashtrian-handloom-pwa` (Public)
- Files and folders:

File/Folder	Description	Time
icons	Initial PWA project for ...	3 minutes ago
images	Initial PWA project for ...	3 minutes ago
.gitignore	Initial PWA project for ...	3 minutes ago
README.md	Initial PWA project for ...	3 minutes ago
index.html	Initial PWA project for ...	3 minutes ago
manifest.json	Initial PWA project for ...	3 minutes ago
offline.html	Initial PWA project for ...	3 minutes ago
serviceworker.js	Initial PWA project for ...	3 minutes ago

Repository statistics:

- Stars: 0
- Forks: 0
- Watching: 1

Repository description: No description, website, or topics provided.

Repository features:

- Readme
- Activity
- 0 stars
- 1 watching
- 0 forks

Releases: No releases published. [Create a new release](#)

Packages: No packages published.

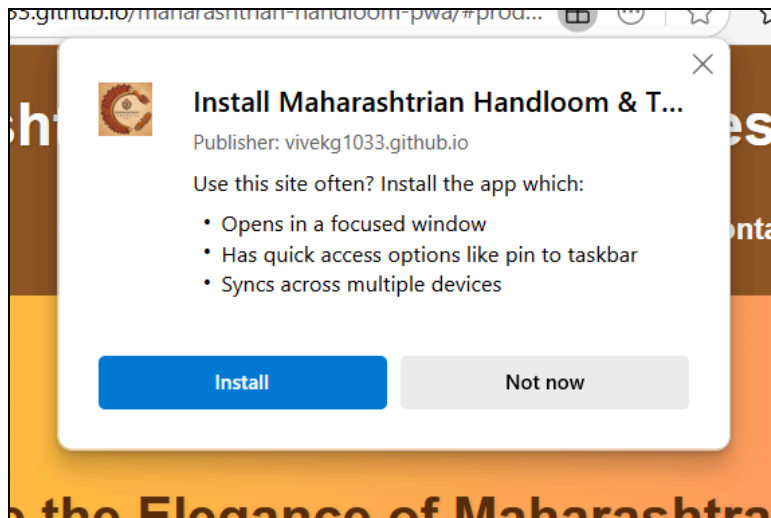
Browser window showing the live PWA application running on `https://vivekg1033.github.io/maharashtrian-handloom-pwa/...`.

Maharashtrian Handloom & Textiles

Navigation menu: Home, Products, Our Artisans, About Us, Testimonials, Contact

Experience the Elegance of Maharashtra's Finest Textiles

Discover handcrafted treasures that weave together tradition and luxury - from majestic Paithani Sarees to intricate Himroo Shawls and authentic Kolhapuri



Conclusion

In this experiment, we successfully deployed the Maharashtra Handloom & Textiles PWA to GitHub Pages by ensuring proper setup of service workers and manifest files. Initially, we faced 404 errors for a CSS-based image and offline caching issues, which we resolved by correcting the image path and ensuring only valid resources were cached.