
Name :Abhay Gupta

MPL Practical 10

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

Github Link: <https://yash-naikwadi.github.io/Swad-Maharashtra-Cha-PWA/>

Theory:

Deployment is the final step in the web development process where we make our website available online for users to access. GitHub Pages is a free and reliable hosting platform provided by GitHub that lets us publish static websites directly from a repository.

To deploy a Progressive Web App (PWA) like ours, we must ensure that:

- All file paths are correct (especially for service workers and cached files).
- The service worker properly uses the subfolder paths (since GitHub Pages hosts sites from `/username/repo-name/`).
- Our project is pushed to the GitHub repository and GitHub Pages is enabled under the repository settings.

What We Implemented

For our Swad Maharashtra Cha eCommerce PWA, we created a GitHub repository and pushed our entire project to it. We updated all the file paths in `serviceworker.js` to include the repository name `/Technix-PWA/` so the files could be correctly cached and accessed. We also used relative paths in the HTML to ensure smooth service worker registration and offline support. After this, we enabled GitHub Pages in the repository settings and deployed the app successfully at:

This allowed our PWA to be accessible to users worldwide with offline functionality, push notifications, and an installable app-like experience.

Folder Structure

✓ SWAD-MAHARASHTRA-CHA

- > icons
- > images
- ◆ .gitignore
- <> index.html
- { } manifest.json
- <> offline.html
- i README.md
- JS script.js
- JS serviceworker.js
- # style.css

Code:**serviceworker.js**

```
const CACHE_NAME = "swad-maha-cache-v1";
const FILES_TO_CACHE = [
  "/Swad-Maharashtra-Cha-PWA/index.html",
  "/Swad-Maharashtra-Cha-PWA/",
  "/Swad-Maharashtra-Cha-PWA/style.css",
  "/Swad-Maharashtra-Cha-PWA/script.js",
  "/Swad-Maharashtra-Cha-PWA/serviceworker.js",
  "/Swad-Maharashtra-Cha-PWA/manifest.json",
  "/Swad-Maharashtra-Cha-PWA/images/maharashtra-feast.webp",
  "/Swad-Maharashtra-Cha-PWA/images/cart.svg",
  "/Swad-Maharashtra-Cha-PWA/images/goda-masala.webp",
  "/Swad-Maharashtra-Cha-PWA/images/malvani-masala.webp",
  "/Swad-Maharashtra-Cha-PWA/images/kanda-lasun.webp",
  "/Swad-Maharashtra-Cha-PWA/images/puran-poli.webp",
  "/Swad-Maharashtra-Cha-PWA/images/modak.webp",
  "/Swad-Maharashtra-Cha-PWA/images/shrikhand.webp",
  "/Swad-Maharashtra-Cha-PWA/images/bhakarwadi.webp",
  "/Swad-Maharashtra-Cha-PWA/images/chivda.webp",
  "/Swad-Maharashtra-Cha-PWA/images/chakli.webp",
  "/Swad-Maharashtra-Cha-PWA/images/border-pattern.webp",
  "/Swad-Maharashtra-Cha-PWA/images/maharashtra-pattern.webp",
  "/Swad-Maharashtra-Cha-PWA/images/paithani-pattern.webp",
  "/Swad-Maharashtra-Cha-PWA/icons/icon-192x192.png",
  "/Swad-Maharashtra-Cha-PWA/icons/icon-512x512.png",
  "/Swad-Maharashtra-Cha-PWA/offline.html"
];
```

Create a GitHub Repository**Link Your Local Project to GitHub and Push Changes.**

```
PS D:\Users\Yash\Documents\Swad-Maharashtra-Cha> git init
Initialized empty Git repository in D:/Users/Yash/Documents/Swad-Maharashtra-Cha/.git/
PS D:\Users\Yash\Documents\Swad-Maharashtra-Cha> git add .
PS D:\Users\Yash\Documents\Swad-Maharashtra-Cha> git commit -m "first commit"
[main (root-commit) 7d32390] first commit
24 files changed, 1420 insertions(+)
```

```

PS D:\Users\Yash\Documents\Swad-Maharashtra-Cha> git remote add origin https
● ://github.com/Yash-Naikwadi/Swad-Maharashtra-Cha-PWA.git
● PS D:\Users\Yash\Documents\Swad-Maharashtra-Cha> git push -u origin main
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), 1.23 MiB | 1.27 MiB/s, done.
Total 28 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Yash-Naikwadi/Swad-Maharashtra-Cha-PWA.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
○ PS D:\Users\Yash\Documents\Swad-Maharashtra-Cha>

```

The screenshot shows a web browser displaying the GitHub repository page for 'Yash-Naikwadi / Swad-Maharashtra-Cha-PWA'. The repository is public and has 0 stars, 0 forks, and 1 watch. The main branch is selected. The file list shows a first commit by Yash-Naikwadi 1 minute ago, containing files: icons, images, .gitignore, README.md, index.html, manifest.json, offline.html, script.js, serviceworker.js, and style.css. The README section is partially visible at the bottom.

Repository Details:

- Repository: Swad-Maharashtra-Cha-PWA (Public)
- Owner: Yash-Naikwadi
- Stars: 0
- Forks: 0
- Watching: 1

Files (first commit):

| File Name | Commit | Time |
|------------------|--------------|--------------|
| icons | first commit | 1 minute ago |
| images | first commit | 1 minute ago |
| .gitignore | first commit | 1 minute ago |
| README.md | first commit | 1 minute ago |
| index.html | first commit | 1 minute ago |
| manifest.json | first commit | 1 minute ago |
| offline.html | first commit | 1 minute ago |
| script.js | first commit | 1 minute ago |
| serviceworker.js | first commit | 1 minute ago |
| style.css | first commit | 1 minute ago |

About: A PWA-based eCommerce site offering authentic Maharashtrian spices, sweets, and snacks with offline support and app-like experience.

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

Packages: No packages published. [Publish your first package](#)

Suggested workflows: Based on your tech stack

Conclusion:

In this experiment, we successfully deployed our Swad Maharashtra Cha PWA to GitHub Pages by configuring correct file paths and ensuring the service worker used the full repository path. Initially, we faced a 404 error during service worker registration, which we fixed by replacing absolute paths with relative ones and prefixing all cache URLs with the repository name.

