Name : Naikwadi Yash Shivdas

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:

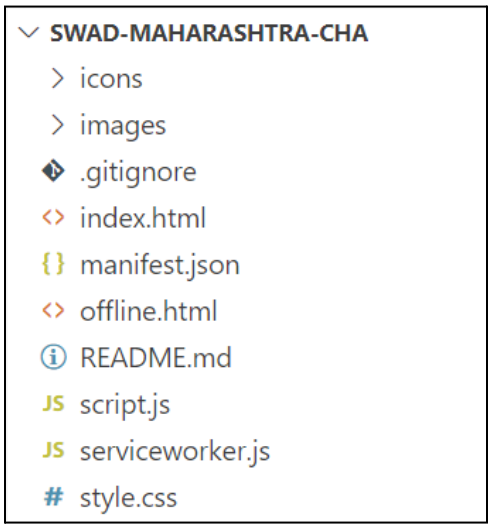
- All file paths are correct (especially for service workers and cached files).
- The service worker properly uses the subfolder paths (since GitHub Pages hosts sites from /username/repo-name/).
- Our project is pushed to the GitHub repository and GitHub Pages is enabled under the repository settings.

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 /Swad-Maharashtra-Cha-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:
https://yash-naikwadi.github.io/Swad-Maharashtra-Cha-PWA/

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

Folder Structure

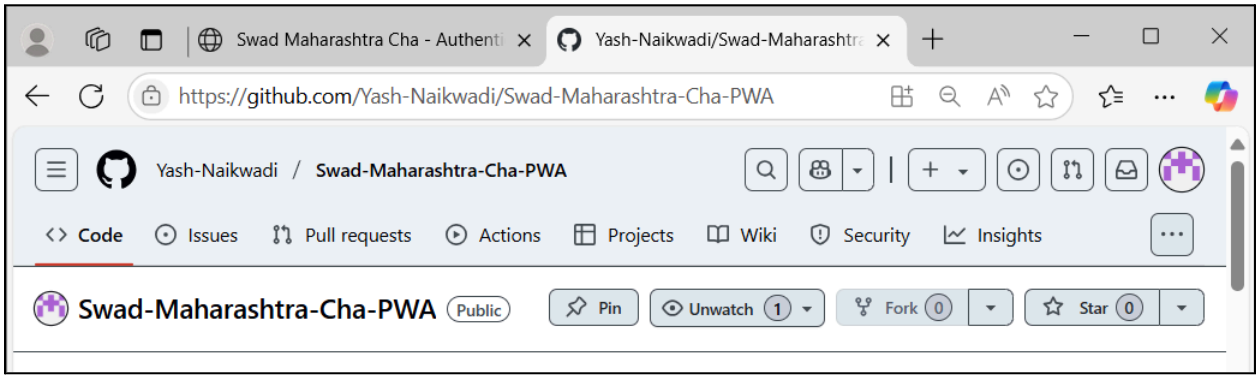


Code:

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"
];
```

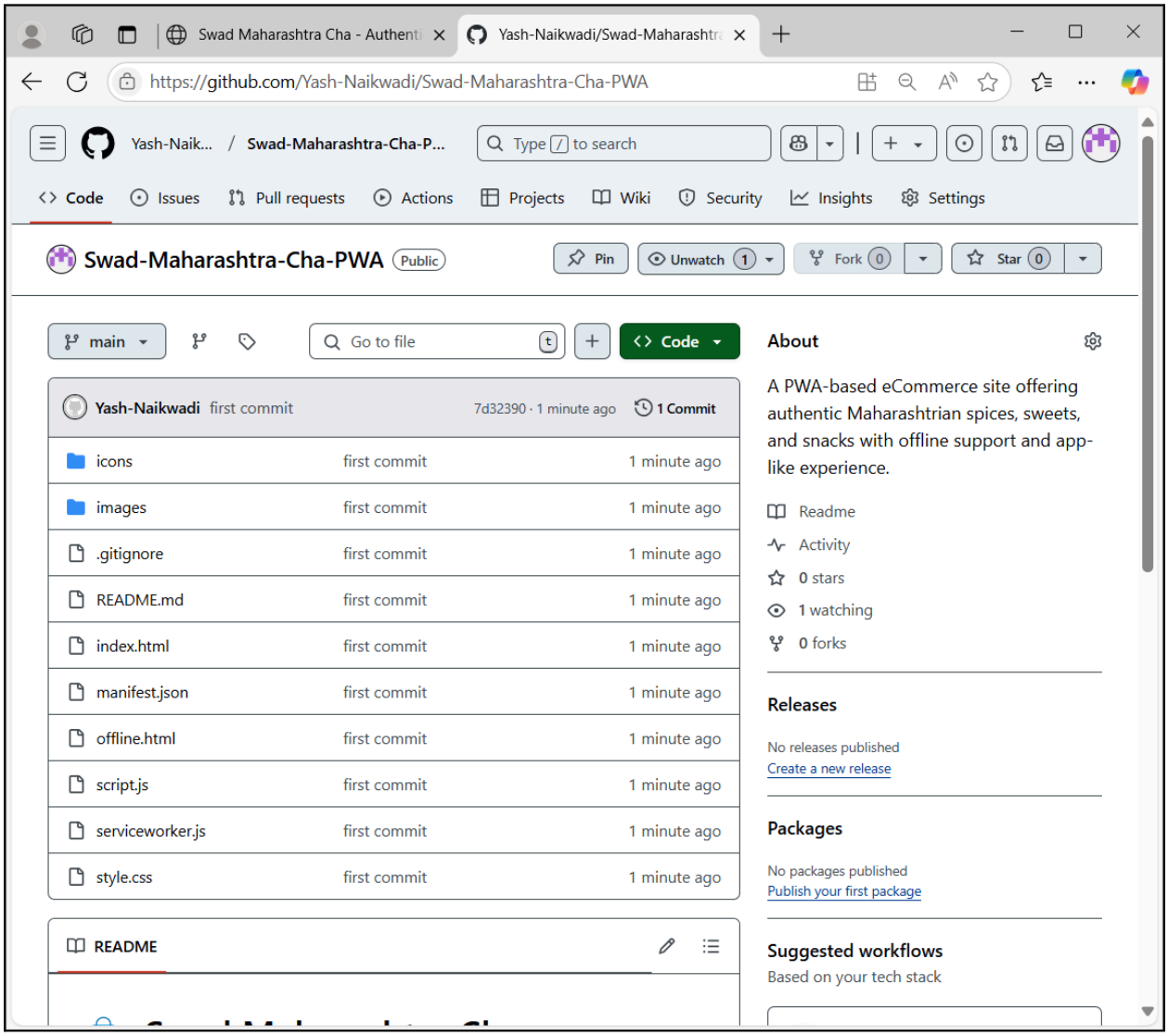
Create a GitHub Repository

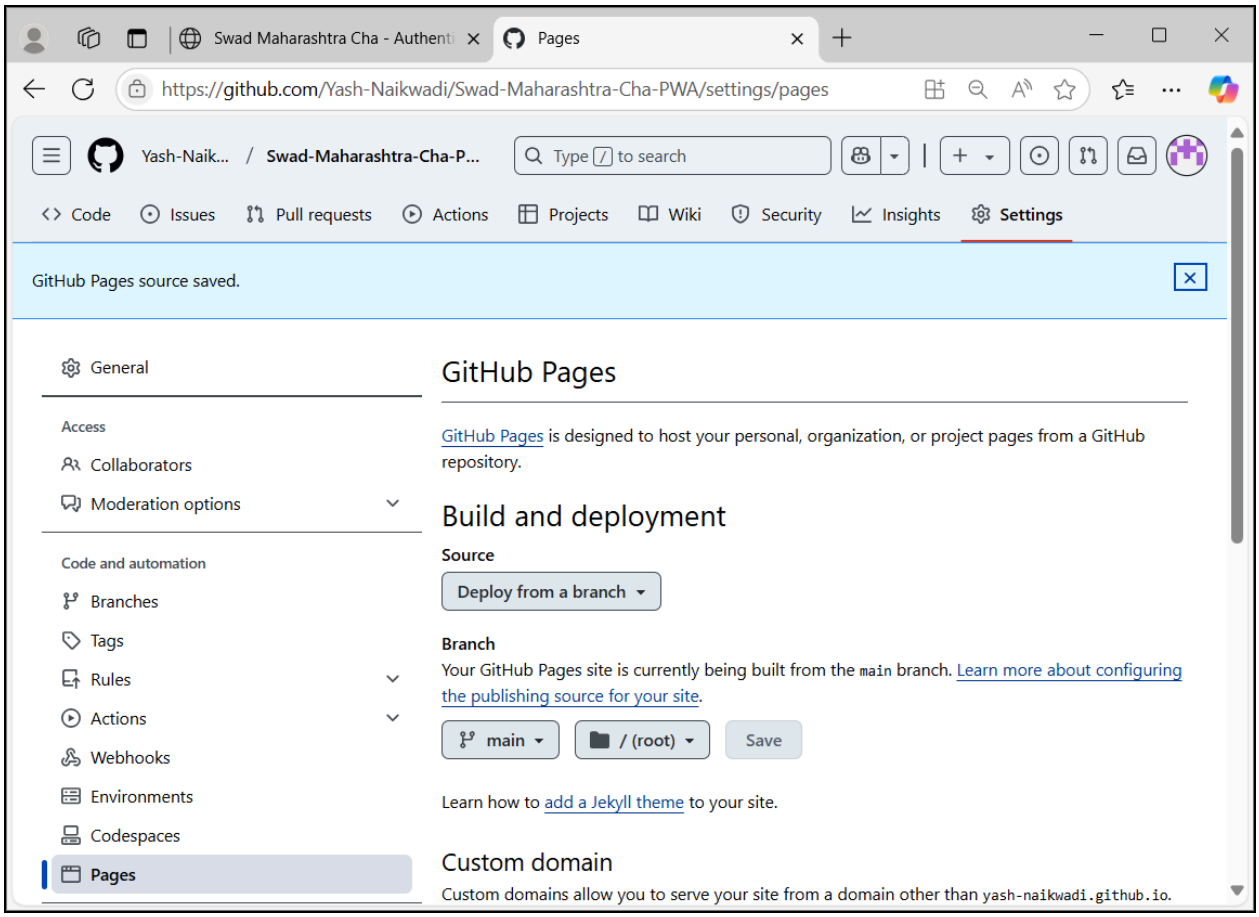


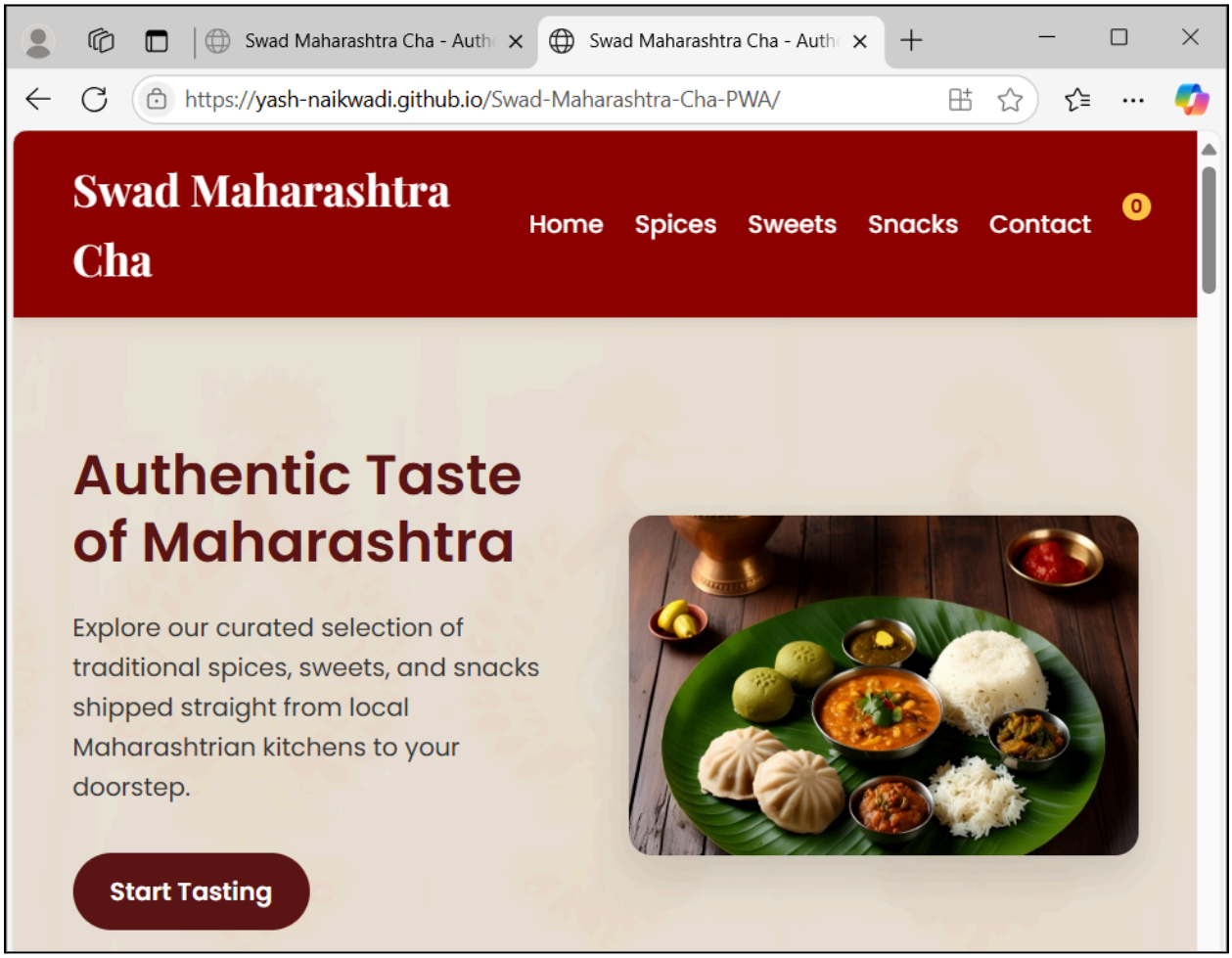
Link Your Local Project to GitHub and Push Changes.

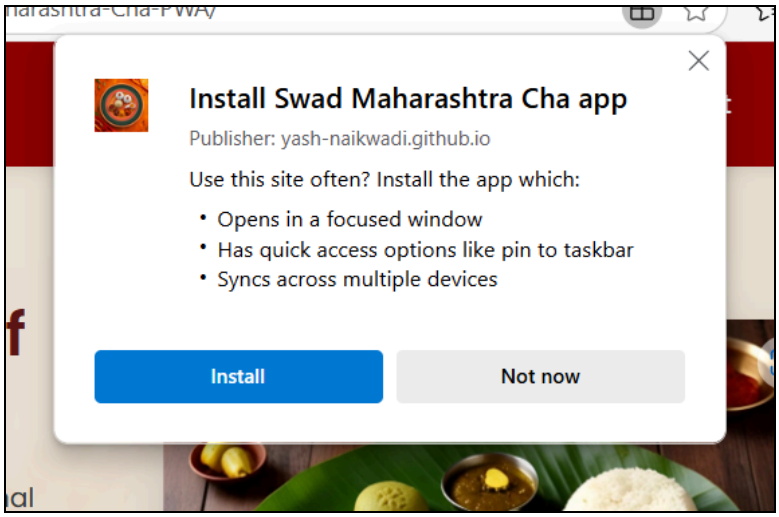
```
PS D:\Users\Yash\Documents\Swad-Maharashtra-Cha> git init
Initialized empty Git repository in D:/Users/Yash/Documents/Swad-Maharashtra-Cha/.git/
PS D:\Users\Yash\Documents\Swad-Maharashtra-Cha> git add .
PS D:\Users\Yash\Documents\Swad-Maharashtra-Cha> git commit -m "first commit"
[main (root-commit) 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>
```




Swad Maharashtra Cha - Authenti
Pages
https://github.com/Yash-Naikwadi/Swad-Maharashtra-Cha-PWA/settings/pages
Yash-Naik... / Swad-Maharashtra-Cha-P...
Type / to search
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
GitHub Pages source saved.
General
Access
Collaborators
Moderation options
Code and automation
Branches
Tags
Rules
Actions
Webhooks
Environments
Codespaces
Pages
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
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.
Custom domain
Custom domains allow you to serve your site from a domain other than yash-naikwadi.github.io.


Swad Maharashtra Cha - Auth
Swad Maharashtra Cha - Auth
https://yash-naikwadi.github.io/Swad-Maharashtra-Cha-PWA/
Swad Maharashtra Cha
Home
Spices
Sweets
Snacks
Contact
0
Authentic Taste of Maharashtra
Explore our curated selection of traditional spices, sweets, and snacks shipped straight from local Maharashtrian kitchens to your doorstep.
Start Tasting



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.