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# Experiment-10

## 1. Aim

To study and implement deployment of Ecommerce PWA to GitHub Pages(or other equivalent service, have used Render)

## 2. Basic Description

**Deployment Steps (Summary):**

**Create a GitHub Repository:**

Push all project files (index.html, manifest.json, style.css, script.js, sw.js, icons, etc.) to GitHub.

**Enable GitHub Pages:**

- Go to your GitHub repository.
- Navigate to Settings > Pages.
- Under Source, choose the appropriate branch (e.g., main) and folder (/root).
- GitHub Pages will automatically deploy the site and give a public URL like:
  https://<your-username>.github.io/<repository-name>/

**Automatic Deployment:**
Every time you push updates to GitHub, GitHub Pages automatically rebuilds and redeploys your site.

**Things to Ensure:**

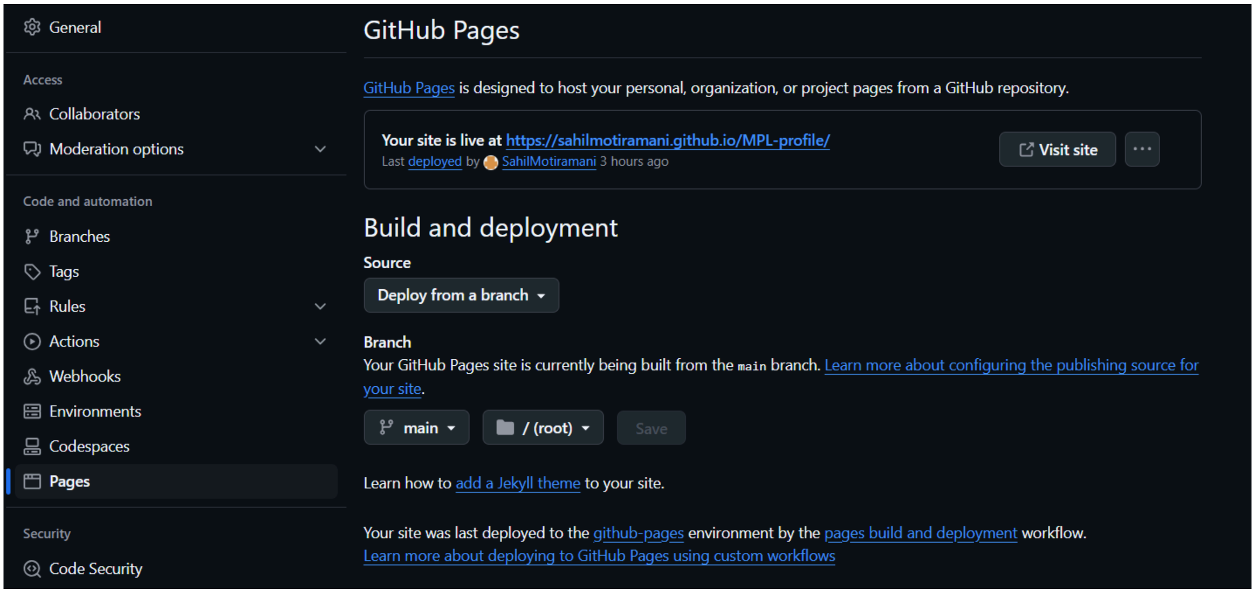
- All file paths must be relative (./style.css, ./script.js, etc.)
- manifest.json and sw.js must be placed in the root directory.
- Icons must be properly linked in manifest.json and must be accessible by the browser.

serviceWorker.register() should be included and functioning:

```
if ('serviceWorker' in navigator) {
  navigator.serviceWorker.register('./sw.js')
  .then(() => console.log('Service Worker Registered'));
}
```

**Live Link:**
https://sahilmotiramani.github.io/MPL-profile/

**3. Output:**



GitHub Pages

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

Your site is live at https://sahilmotiramani.github.io/MPL-profile/
Last deployed by SahilMotiramani 3 hours 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)

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

## 4. Conclusion

We successfully deployed our Portfolio PWA using GitHub Pages, making it accessible to everyone with offline functionality and installability. GitHub Pages provides a smooth and free solution for hosting static web apps. Through this experiment, we learned the step-by-step deployment process, importance of file paths and service workers, and how cloud platforms like GitHub Pages simplify the deployment workflow.