Experiment No.10

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

- **Theory:**

GitHub:

GitHub is a web-based platform centered around Git, a version control system for tracking changes to code. It hosts Git repositories and offers collaboration tools like pull requests and issues, fostering teamwork and code review. GitHub also supports community features, enabling developers to explore projects, contribute to open-source software, and engage with others.

GitHub Pages:

GitHub Pages simplifies website hosting by allowing users to publish static sites directly from their GitHub repositories. It supports custom domains and offers simple deployment via designated branches. GitHub Pages integrates seamlessly with other GitHub features, making it an ideal choice for hosting personal websites, project documentation, and open-source projects.
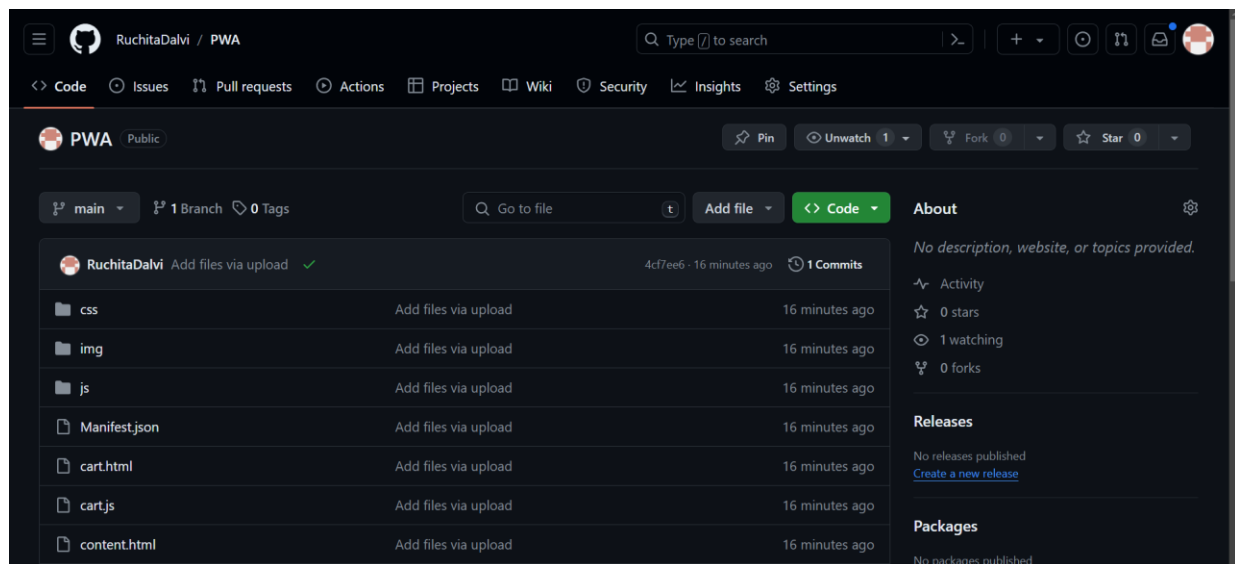
Advantages:

1. Free Hosting: GitHub Pages offers free hosting for static websites, making it an affordable option for hosting PWAs.
2. Easy Deployment: Hosting a PWA on GitHub Pages is straightforward and requires minimal setup.
3. Version Control: GitHub provides robust version control features, allowing you to track changes to your PWA codebase and collaborate with others.
4. Automatic HTTPS: GitHub Pages automatically provides HTTPS for your site, ensuring security and trust.
5. Community and Visibility: GitHub is a popular platform among developers, providing opportunities for community engagement and increased visibility for your PWA project.

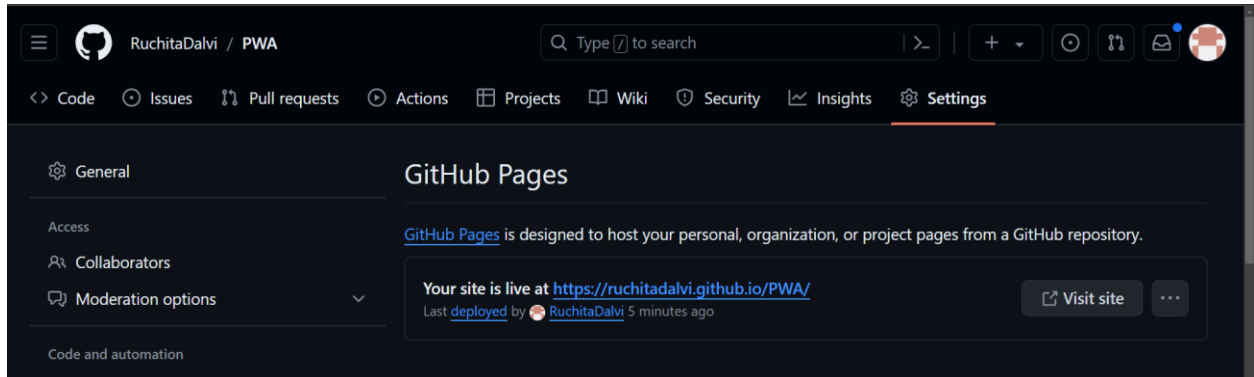<u>**Process of Hosting PWA on GitHub Pages:**</u>

1. Create Repository: Create a new GitHub repository or use an existing one to host your PWA.
2. Add PWA Files: Upload or push your PWA files (HTML, CSS, JavaScript, etc.) to the repository.
3. Set up GitHub Pages: Go to your repository settings, navigate to the GitHub Pages section, and choose a branch (typically the main branch) to serve as the source for your GitHub Pages site.
4. Enable HTTPS: GitHub Pages automatically provides HTTPS for your site.
5. Configure Domain (Optional): You can configure a custom domain for your GitHub Pages site if needed.
6. Access Your PWA: Your PWA is now hosted on GitHub Pages and accessible via the provided URL.

- **<u>Output:-</u>**

<u>**Github Repository Link:**</u> https://github.com/RuchitaDalvi/PWA

Github Hosted Link: https://ruchitadalvi.github.io/PWA/

- ## Conclusion:

In conclusion, studying and implementing the deployment of an Ecommerce Progressive Web App (PWA) to GitHub Pages has provided valuable insights into the process of hosting web applications on a static hosting platform. Leveraging GitHub Pages offers a cost-effective and efficient solution for showcasing and distributing PWAs, ensuring wider accessibility and reach for users. This deployment method enhances the visibility and usability of the Ecommerce PWA, facilitating seamless access for potential customers.