

## Experiment 10

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

Theory:

### 1. What is GitHub Pages?:

- GitHub Pages is a static site hosting service provided by GitHub. It allows you to host your website directly from a GitHub repository.
- You can use GitHub Pages to host websites for personal projects, documentation, project pages, or any other static content.

### 2. How does it work?:

- To host a website on GitHub Pages, you create a new repository on GitHub or use an existing one.
- The content of your website (HTML, CSS, JavaScript, images, etc.) is stored in the repository.
- GitHub Pages serves the content of the repository over HTTPS at a specific URL, typically `https://username.github.io/repository``.
- GitHub Pages automatically builds and deploys your website whenever you push changes to the repository's ``main`` branch (or another designated branch).

### 3. Deployment Options:

- GitHub Pages supports two types of sites: user/organization sites and project sites.
- **\*\*User/Organization Sites\*\***: Hosted at `https://username.github.io``, where ``username`` is your GitHub username or ``organizationname.github.io`` for organization sites.
- **\*\*Project Sites\*\***: Hosted at `https://username.github.io/repository``, where ``username`` is your GitHub username and ``repository`` is the name of your repository.

### 4. Configuration:

- To configure GitHub Pages for your repository, you need to go to the repository settings on GitHub.
- Choose the source branch from which GitHub Pages will build and deploy your site. Typically, this is the ``main`` branch.
- You can also choose a custom domain if you have one.

### 5. Supported Content:

- GitHub Pages supports static content, including HTML, CSS, JavaScript, images, and other media files.
- You can use frameworks like Jekyll, Hugo, or static site generators to build your site, or you can manually create the HTML, CSS, and JavaScript files.

### 6. Custom Domain:

- GitHub Pages allows you to use a custom domain for your website.

- You can configure a custom domain through the repository settings on GitHub and update your DNS records to point to GitHub's servers.

#### 7. Security:

- GitHub Pages provides HTTPS encryption for all sites hosted on its platform.
- It also supports custom domains with HTTPS, ensuring secure communication between the user's browser and your website.

#### 8. Usage:

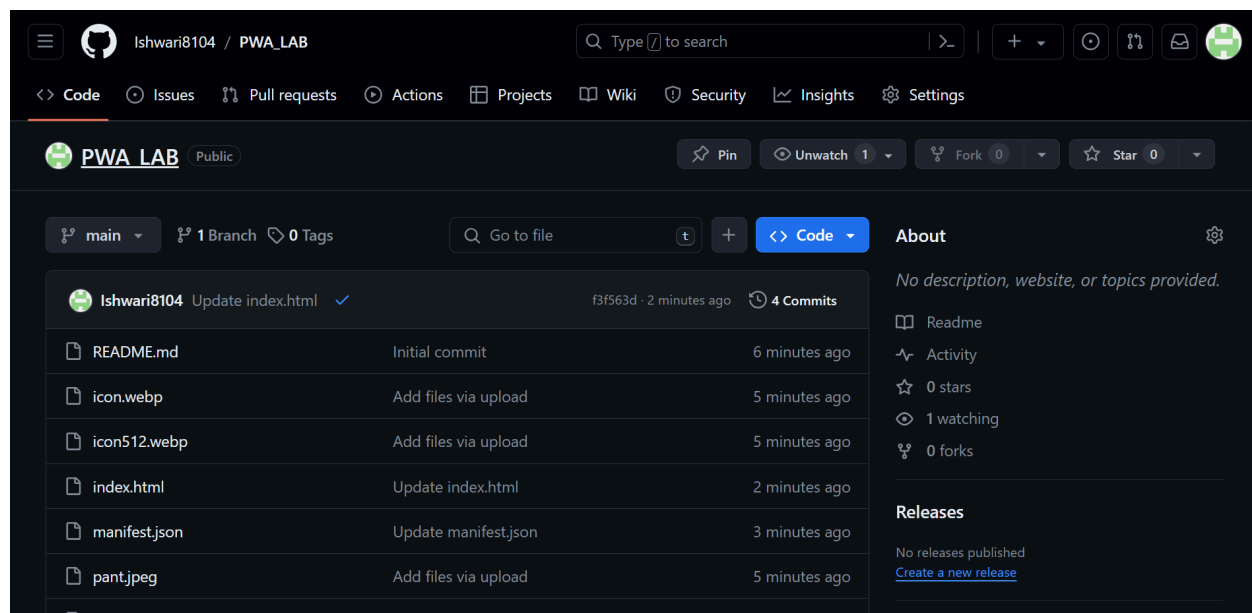
- GitHub Pages is commonly used for personal websites, portfolio sites, project documentation, blogs, and other static content.
- It's particularly popular among developers due to its seamless integration with GitHub repositories and version control features.

By leveraging GitHub Pages, developers can easily publish and share their websites with the world, whether it's a personal project, a portfolio, or documentation for an open-source project. The platform's simplicity and integration with GitHub make it a popular choice for hosting static websites.

#### Implementation:

Deployed Website Link: [https://ishwari8104.github.io/PWA\\_LAB/](https://ishwari8104.github.io/PWA_LAB/)

Link to Repository: [https://github.com/Ishwari8104/PWA\\_LAB.git](https://github.com/Ishwari8104/PWA_LAB.git)





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### Shopping Categories

- [Shirts](#)
- [Pants](#)

### Featured Products



## Men's Shirt

\$25.99

Add to Cart



## Women's Pant

\$29.99

Add to Cart

Conclusion : We have deployed our Ecommerce Pwa via GitHub pages and understood the working of Github pages