### Experiment - 10

#### AIM:

To study and implement deployment of PWA to GitHub Pages.

## Theory:

#### 1. What is GitHub Pages?

GitHub Pages is a free hosting platform that lets developers publish websites straight from a GitHub repository. It's perfect for putting up static websites, like Progressive Web Apps (PWAs), with an easy and quick setup.

## 2. How to Deploy a PWA on GitHub Pages

To publish a PWA using GitHub Pages, follow these steps:

- Upload your project to a GitHub repository.
- Use a command like npm run build to create static files (HTML, CSS, JS) for deployment.
- Make sure these build files are served from the correct branch, usually gh-pages.

# 3. Main Steps in Deployment

- Set Up the Repository: Push your PWA code to GitHub.
- Build the Project: Create production-ready static files.
- Configure Deployment: Use tools like the gh-pages npm package or GitHub Actions to automate the process.
- Set the Homepage URL: In your package.json, add the correct homepage link so your app loads resources properly.

## 4. Why Use GitHub Pages?

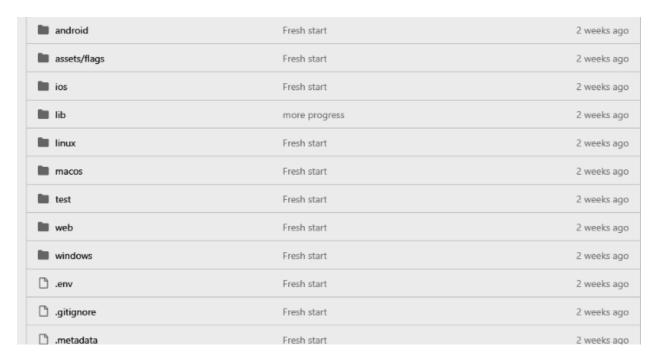
- It's free and beginner-friendly.
- No need for complicated server settings.

## **Experiment - 10**

- Uses GitHub's fast CDN for quick loading everywhere.
- Great for hosting PWAs or showcasing front-end projects.

# 5. Why It Matters for PWAs

Hosting your PWA on GitHub Pages lets people access and install your app from any browser. It gives them a chance to try out features, browse content, and experience the app just like a real-world product.



#### **Conclusion:**

Deploying an PWA to GitHub Pages provides a quick and reliable way to make the app available online. It simplifies distribution, testing, and user access without the need for traditional web hosting.