Experiment - 10

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AIM:

To study and implement deployment of E-commerce PWA to GitHub Pages.

Theory:

GitHub Pages is a free hosting service that allows developers to publish web apps directly from a GitHub repository. It is commonly used to deploy static websites, including Progressive Web Apps (PWAs), with a simple workflow. **1. Overview of Deployment**

To deploy an E-commerce PWA on GitHub Pages:

- The project must be pushed to a GitHub repository.
- It should be built into static files (e.g., using npm run build).
- The build output must be served from the appropriate branch (usually gh-pages).

2. Key Steps

- Repository Setup: Push the PWA code to GitHub.
- Build Process: Generate optimized static files suitable for deployment.
- Deployment Configuration: Use tools like gh-pages npm package or GitHub Actions for automating deployment.
- Set Homepage URL: In package.json, define the homepage URL to ensure assets load correctly.

3. Benefits of Using GitHub Pages

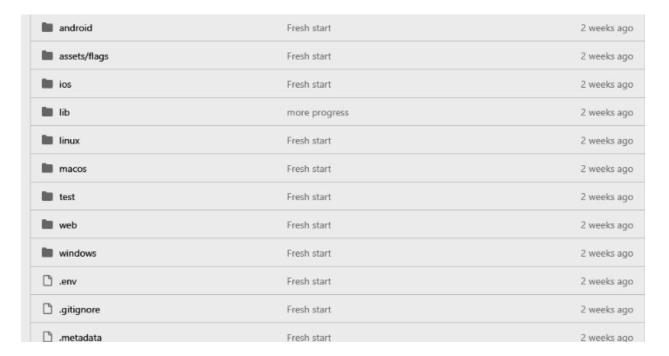
Free and easy to use.

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- No server configuration required.
- Fast global content delivery via GitHub's CDN.
- Ideal for hosting PWAs and showcasing front-end projects.

4. Importance for E-commerce PWAs

Deploying to GitHub Pages makes the PWA publicly accessible, allowing users to install it, browse products, and interact with features in a real-world environment.



Conclusion: Deploying an E-commerce 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.