

Experiment - 10

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DOP:	DOS:
Sign:	Grade:

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.

 android	Fresh start	2 weeks ago
 assets/flags	Fresh start	2 weeks ago
 ios	Fresh start	2 weeks ago
 lib	more progress	2 weeks ago
 linux	Fresh start	2 weeks ago
 macos	Fresh start	2 weeks ago
 test	Fresh start	2 weeks ago
 web	Fresh start	2 weeks ago
 windows	Fresh start	2 weeks ago
 .env	Fresh start	2 weeks ago
 .gitignore	Fresh start	2 weeks ago
 .metadata	Fresh start	2 weeks ago

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.