

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.

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- 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.

 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 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.