MAD & PWA Lab
Journal

Experiment No.	10
Experiment Title.	To study and implement deployment of Ecommerce PWA to GitHub Pages.
Roll No.	37
Name	Nihal Nagdev
Class	D15B
Subject	MAD & PWA Lab
Lab Outcome	LO5: Design and Develop a responsive User Interface by applying PWA Design techniques
Grade:	

Aim:

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

Theory:

GitHub Pages is a free hosting service provided by GitHub that allows you to deploy static websites directly from a GitHub repository. Progressive Web Apps (PWAs), being primarily composed of HTML, CSS, and JavaScript, are well-suited for deployment on GitHub Pages.

Steps for Deployment:

1. Prepare the PWA:
   Ensure your PWA is complete with the required files:
   - index.html
   - manifest.json
   - service-worker.js
   - Assets (CSS, JS, icons, etc.)
2. Push Code to GitHub Repository:
   Create a repository on GitHub and push all your PWA files to it.
3. Configure the Repository:
   - Go to the repository settings.
   - Scroll down to the GitHub Pages section.
   - Under Source, select the branch (main or master) and root or /docs folder.
4. Update Service Worker Scope (if needed):
   Since GitHub Pages serves the app from a subpath like https://username.github.io/repo-name/, you may need to:
   - Set start_url in manifest.json accordingly. ○ Update the service worker's scope.
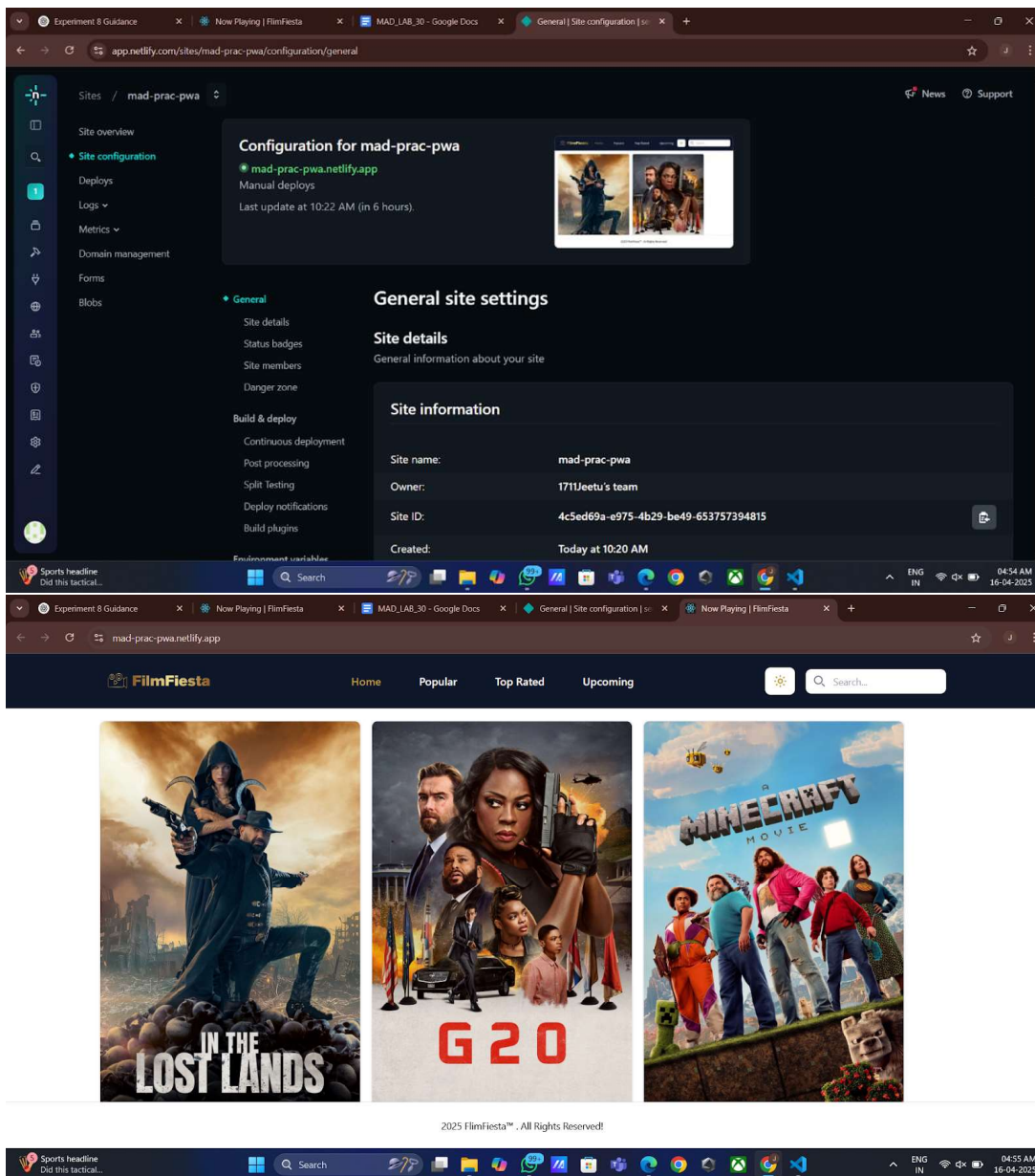5. Build (if using a bundler like Webpack or Vite):
   Run the build command to generate production files, and deploy the output folder (commonly dist/ or build/).

6. Access the App:
   Your PWA will be available at:
   https://<your-username>.github.io/<repo-name>/

Screenshots:

Conclusion:

Deploying an E-commerce PWA to GitHub Pages is a practical and cost-effective solution for showcasing and testing your app online. It allows developers to host their PWA using a simple, version-controlled workflow, ensuring easy updates and accessibility. Proper configuration of paths and service worker settings ensures that the app functions smoothly, including offline capabilities and the "Add to Home Screen" feature.