

## **Experiment No.10**

### **MAD & PWA LAB**

I. **Aim:** : To study and implement deployment of Ecommerce PWA to GitHub Pages.

II. **Theory:**

✓ **GitHub Pages :**

GitHub Pages is a platform for hosting public web pages directly from your GitHub repository, offering easy editing and publishing. It provides features like blogging with Jekyll, custom URLs, and an automatic page generator. This service is favored for its free usage and integration with GitHub, making setup quick and straightforward. Notable users of GitHub Pages include Lyft, CircleCI, and HubSpot.

✓ **Advantages of GitHub Pages**

- Familiar interface for GitHub users
- Simple setup process by pushing to the github-pages branch
- Built-in Jekyll support
- Custom domain support

✓ **Disadvantages of GitHub Pages**

- Public code unless using a private repository
- Lack of HTTPS support for custom domains
- Limited Jekyll plugin support

✓ **Firebase :**

Firebase is a real-time app platform designed for collaborative applications. It offers a cloud service that synchronizes data changes across clients and the Firebase cloud in milliseconds. Firebase allows you to build apps entirely with client-side code, update in real-time, interoperate with existing services, scale automatically, and provide strong data security.

✓ **Advantages of Firebase**

- Hosted by Google
- Access to authentication and Cloud Messaging services
- Real-time database with 1 GB storage
- Blob store with 1 GB storage
- HTTPS support for custom domains

✓ **Disadvantages of Firebase**

- 10 GB data transfer limit per month
- Command-line interface only
- No built-in support for static site generators

✓ **Github Repository Link:**

[https://github.com/sidhhu0603/Trend\\_Wardrobe](https://github.com/sidhhu0603/Trend_Wardrobe)

✓ **Github Hosted Link:**

[https://sidhhu0603.github.io/Trend\\_Wardrobe/](https://sidhhu0603.github.io/Trend_Wardrobe/)

**IV. CONCLUSION:**

Hence, I have successfully studied and deployed the ecommerce Progressive Web App (PWA) to GitHub Pages. The process involved thorough understanding of GitHub Pages' hosting capabilities and configuration settings, as well as ensuring compatibility and optimization for a PWA environment. The deployment to GitHub Pages provides a cost-effective and efficient hosting solution for the ecommerce PWA, leveraging the platform's ease of use and integration with GitHub repositories.