

## MPL Experiment 10 (PWA)

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

**Theory:**

### **GitHub Pages**

Public web pages are freely hosted and easily published. Public webpages hosted directly from your GitHub repository. Just edit, push, and your changes are live.

**GitHub Pages provides the following key features:**

- Blogging with Jekyll
- Custom URL
- Automatic Page Generator

**Reasons for favoring this over Firebase:**

- Free to use
- Right out of github
- Quick to set up

**Companies Using GitHub Pages:**

GitHub Pages is used by Lyft, CircleCI, and HubSpot.

GitHub Pages is listed in **775 company stacks** and **4401 developer stacks**.

### **Pros**

- Very familiar interface if you are already using GitHub for your projects.
- Easy to set up. Just push your static website to the `gh-pages` branch and your website is ready.
- Supports Jekyll out of the box.
- Supports custom domains. Just add a file called CNAME to the root of your site, add an A record in the site's DNS configuration, and you are done.

### **Cons**

- The code of your website will be public, unless you pay for a private repository.
- Currently, there is no support for HTTPS for custom domains. It's probably coming soon though.
- Although Jekyll is supported, plug-in support is rather spotty.

## **Firebase**

The Realtime App Platform. Firebase is a cloud service designed to power real-time, collaborative applications. Simply add the Firebase library to your application to gain access to a shared data structure; any changes you make to that data are automatically synchronized with the Firebase cloud and with other clients within milliseconds.

### **Some of the features offered by Firebase are:**

- Add the Firebase library to your app and get access to a shared data structure. Any changes made to that data are automatically synchronized with the Firebase cloud and with other clients within milliseconds.
- Firebase apps can be written entirely with client-side code, update in real-time out-of-the-box, interoperate well with existing services, scale automatically, and provide strong data security.
- Data Accessibility- Data is stored as JSON in Firebase. Every piece of data has its own URL which can be used in Firebase's client libraries and as a REST endpoint. These URLs can also be entered into a browser to view the data and watch it update in real-time.

### **Reasons for favoring over GitHub Pages:**

- Realtime backend made easy
- Fast and responsive

### **Companies Using Firebase:**

Instacart, 9GAG, and Twitch are some of the popular companies that use Firebase. Firebase has a broader approval, being mentioned in 1215 company stacks & 4651 developers stacks.

### **Pros**

- Hosted by Google. Enough said.
- Authentication, Cloud Messaging, and a whole lot of other handy services will be available to you.
- A real-time database will be available to you, which can store 1 GB of data.
- You'll also have access to a blob store, which can store another 1 GB of data.
- Support for HTTPS. A free certificate will be provisioned for your custom domain within 24 hours.

### **Cons**

- Only 10 GB of data transfer is allowed per month. But this is not really a big problem, if you use a CDN or AMP.
- Command-line interface only.
- No in-built support for any static site generator.

### **Link to our GitHub repository:**

<https://github.com/Mohitpatil344/Netflix>

Link to our Hosted website:

<https://creative-sorbet-96d1b6.netlify.app/>

Github Screenshot:

