

## Experiment No. 10

### Aim:

To study and implement deployment of Ecommerce PWA to GitHub Pages.

### 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:

1. Blogging with Jekyll
2. Custom URL
3. Automatic Page Generator

Reasons for favoring this over Firebase:

1. Free to use
2. Right out of github
3. Quick to set up

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

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

#### Pros

1. Very familiar interface if you are already using GitHub for your projects.
2. Easy to set up. Just push your static website to the gh-pages branch and your website is ready.
3. Supports Jekyll out of the box.
4. 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

1. The code of your website will be public, unless you pay for a private repository.
2. Currently, there is no support for HTTPS for custom domains. It's probably coming soon though.
3. 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:

1. 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.
2. 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.
3. 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:

1. Realtime backend made easy
2. Fast and responsive

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

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

Cons

1. 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.
2. Command-line interface only.
3. No in-built support for any static site generator.

Browser tabs: MAD&PWA-24-25 D158, MPL\_Title Page 24-25, D158, E-commerce PWA Integra..., MAD&PWA-24-25 D158, ex10 - Google Docs, VaibhavBoudh/mpl-pd: pr...

github.com/VaibhavBoudh/mpl-pd

VaibhavBoudh / mpl-pd

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

**mpl-pd** Public

main 1 Branch 0 Tags

Refactor push notification handling in service worker; improve notifi... 36da997 · 1 hour ago 10 Commits

File	Commit	Time
public	Refactor push notification handling in service worker; improv...	1 hour ago
src	Enhance service worker functionality; improve caching, sync, ...	1 hour ago
.gitignore	initial	7 months ago
eslint.config.js	initial	7 months ago
index.html	Add PWA support with manifest and icons; update HTML, me...	2 hours ago
package-lock.json	initial	7 months ago
package.json	initial	7 months ago
postcss.config.js	initial	7 months ago
tailwind.config.js	initial	7 months ago
vite.config.js	Add service worker for caching and offline support; update ...	2 hours ago

No description, website, or topics provided.

Activity

0 stars

1 watching

0 forks

Report repository

Releases

No releases published

Packages

No packages published

Languages

JavaScript 96.2% HTML 3.1% CSS 0.7%

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Issues Pull requests Actions Projects Wiki Security Insights Settings

**mpl-pd** Public

main 1 Branch 0 Tags

Go to file Add file Code About

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

Codespaces

**Pages**

Security

Advanced Security

Deploy keys

Source and variables

**GitHub Pages**

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

**Build and deployment**

Source

Deploy from a branch

Branch

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. [Learn more about configuring the publishing source for your site.](#)

None Save

Visibility [GitHub Enterprise](#)

With a GitHub Enterprise account, you can restrict access to your GitHub Pages site by publishing it privately. You can use privately published sites to share your internal documentation or knowledge base with members of your enterprise. You can try GitHub Enterprise risk-free for 30 days. [Learn more about the visibility of your GitHub Pages site.](#)

Start free for 30 days

