

MAD & PWA Lab Journal

Experiment No.	10
Experiment Title.	To study and implement deployment of Ecommerce PWA to GitHub Pages.
Roll No.	50
Name	Mohit Shadija
Class	D15B
Subject	MAD & PWA Lab
Lab Outcome	LO5: Design and Develop a responsive User Interface by applying PWA Design techniques
Grade:	

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.

Link to our GitHub repository: <https://github.com/mohitshadija05/ecommerce-pwa>

Github Screenshot:

Browser tabs: mohitshadja05/ecommerce-pwa, MyShop - Online Store, New Tab

Address bar: github.com/mohitshadja05/ecommerce-pwa

Navigation: <> Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, Settings

Repository: ecommerce-pwa (Public)

Buttons: Pin, Unwatch (1), Fork (0), Star (0)

Branches: main (1 Branch), 0 Tags

Search: Go to file

Buttons: Add file, Code

About: No description, website, or topics provided.

Activity: 0 stars, 1 watching, 0 forks

Releases: No releases published. [Create a new release](#)

Packages: No packages published. [Publish your first package](#)

File	Commit	Time
images	Initial commit	19 minutes ago
index.html	Initial commit	19 minutes ago
manifest.json	Initial commit	19 minutes ago
offline.html	Initial commit	19 minutes ago
script.js	Initial commit	19 minutes ago
style.css	Initial commit	19 minutes ago
sw.js	Initial commit	19 minutes ago

README

Browser tabs: Pages, MyShop - Online Store, New Tab

Address bar: github.com/mohitshadja05/ecommerce-pwa/settings/pages

Navigation: <> Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, Settings

Settings: General, Access, Collaborators, Moderation options, Code and automation, Pages (selected), Security

GitHub Pages

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

Your site is live at <https://mohitshadja05.github.io/ecommerce-pwa/>
Last deployed by mohitshadja05 15 minutes ago

[Visit site](#)

Build and deployment

Source: Deploy from a branch

Branch: Your GitHub Pages site is currently being built from the main branch. [Learn more about configuring the publishing source for your site.](#)

main / (root) Save

Learn how to [add a Jekyll theme](#) to your site.

Your site was last deployed to the [github-pages](#) environment by the [pages build and deployment](#) workflow. [Learn more about deploying to GitHub Pages using custom workflows](#)

Activate Windows
Go to Settings to activate Windows.

Workflow runs - mohitshadija05 x MyShop - Online Store x New Tab x

github.com/mohitshadija05/ecommerce-pwa/actions

mohitshadija05 / ecommerce-pwa

Type to search

<> Code Issues Pull requests **Actions** Projects Wiki Security Insights Settings

Actions New workflow

All workflows

pages-build-deployment

Management

Caches

Deployments

Attestations

Runners

Usage metrics

Performance metrics

All workflows Filter workflow runs

Showing runs from all workflows

Help us improve GitHub Actions

Tell us how to make GitHub Actions work better for you with three quick questions.

Give feedback

1 workflow run

Event Status Branch Actor

pages build and deployment

pages-build-deployment #1: by mohitshadija05

main

16 minutes ago

40s

Activate Windows

Go to Settings to activate Windows.

Pages x MyShop - Online Store x MyShop - Online Store x New Tab x

mohitshadija05.github.io/ecommerce-pwa/

MyShop Home Products About Contact

Welcome to MyShop

Discover amazing products at great prices

Shop Now

Featured Products

Activate Windows

Go to Settings to activate Windows.

Deployed Link: <https://mohitshadija05.github.io/ecommerce-pwa/>