

Name:- Hertika

Roll:5

Batch:A

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/Hertika/PWA_fuzzy

Hosted Link: https://shamaila02.github.io/PWA_Fuzzy/

Github Screenshot:

The screenshot shows the GitHub repository page for 'PWA_fuzzy' by user 'Hertika'. The repository is public and has 1 commit. The file list includes a 'css' directory, 'images' directory, 'js' directory, and several HTML files: 'README.md', 'app.js', 'cart.html', 'categories.html', 'checkout.html', 'coupon.html', 'create-account.html', 'empty-cart.html', and 'empty-notification.html'. Each file has an 'Add files via upload' button and a timestamp of '5 minutes ago'. The right sidebar shows the repository's activity, including 0 stars, 1 watching, and 0 forks. The 'Languages' section shows a bar chart with HTML at 66.6%, CSS at 30.5%, and JavaScript at 2.9%.

| File | Action | Time |
|-------------------------|--------------------------------------|---------------|
| css | Add files via upload | 5 minutes ago |
| images | Add files via upload | 5 minutes ago |
| js | Add files via upload | 5 minutes ago |
| README.md | Add files via upload | 5 minutes ago |
| app.js | Add files via upload | 5 minutes ago |
| cart.html | Add files via upload | 5 minutes ago |
| categories.html | Add files via upload | 5 minutes ago |
| checkout.html | Add files via upload | 5 minutes ago |
| coupon.html | Add files via upload | 5 minutes ago |
| create-account.html | Add files via upload | 5 minutes ago |
| empty-cart.html | Add files via upload | 5 minutes ago |
| empty-notification.html | Add files via upload | 5 minutes ago |

Languages

| Language | Percentage |
|------------|------------|
| HTML | 66.6% |
| CSS | 30.5% |
| JavaScript | 2.9% |

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

Codespaces

Pages

Security

Code security and analysis

Deploy keys

Secrets and variables

GitHub Pages

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

Your site is live at https://shamaila02.github.io/PWA_Fuzzy/

Last deployed by Shamaila02 5 hours 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](#)

Custom domain

Shamaila02 / PWA_Fuzzy

Type to search

>_

+

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security 1

Insights

Settings

Actions

New workflow

All workflows

Workflows

pages-build-deployment

Management

Caches

Deployments

Runners

pages-build-deployment

Filter workflow runs

1 workflow run

Event

Status

Branch

pages build and deployment

pages-build-deployment #1: by Shamaila02

5 hours ago

51s

Shamaila02 / PWA_Fuzzy

Type to search

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security 1

Insights

Settings

Deployments Beta

All deployments

Environments

github-pages

Manage environments

Give beta feedback

Opt out of beta view

All deployments

Latest deployments from select environments

github-pages

Last deployed 5 hours ago

https://shamaila02.github.io/PWA_Fuzzy/

1 deployments

FuzzyProject added Active

Deployed to github-pages by Shamaila02 via pages-build-deployment #1

Conclusion: In this experiment we have Successfully deployed the Ecommerce PWA to GitHub Pages.