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Roll No.: 28

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 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

Firestore

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

Some of the features offered by Firestore are:

1. Add the Firestore library to your app and get access to a shared data structure. Any changes made to that data are automatically synchronized with the Firestore cloud and with other clients within milliseconds.
2. Firestore 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 Firestore. Every piece of data has its own URL which can be used in Firestore'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 Firestore. Firestore 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 Github repo : https://github.com/Anush0108/Ecom_pwa/tree/main

Hosted website Link : https://anush0108.github.io/Ecom_pwa/

GitHub Project:

Anush0108 / Ecom_pwa

Type to search

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Ecom_pwa

Public

Pin

Unwatch 1

Fork 0

Star 0

main 1 Branch 0 Tags

Go to file

Add file

Code

Anush0108 Merge branch 'main' of https://github.com/Anush0108/Ecom_pwa ✓ d9af6bf · 1 hour ago 5 Commits

assets	Initial commit	1 hour ago
favicon.svg	Initial commit	1 hour ago
index.html	Initial commit	1 hour ago
index.txt	Initial commit	1 hour ago
manifest.json	Initial commit	1 hour ago
service-worker.js	Initial commit	1 hour ago
style-guide.md	Initial commit	1 hour ago

README

https://github.com/Anush0108/Ecom_pwa

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

Deployments 1

github-pages 14 minutes ago

Anush0108 / Ecom_pwa

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General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

Codespaces

Pages

Security

Code security and analysis

Deploy keys

GitHub Pages

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

Your site is live at https://anush0108.github.io/Ecom_pwa/

Last deployed by Anush0108 12 minutes ago

Visit site

Build and deployment

Source

Deploy from a branch

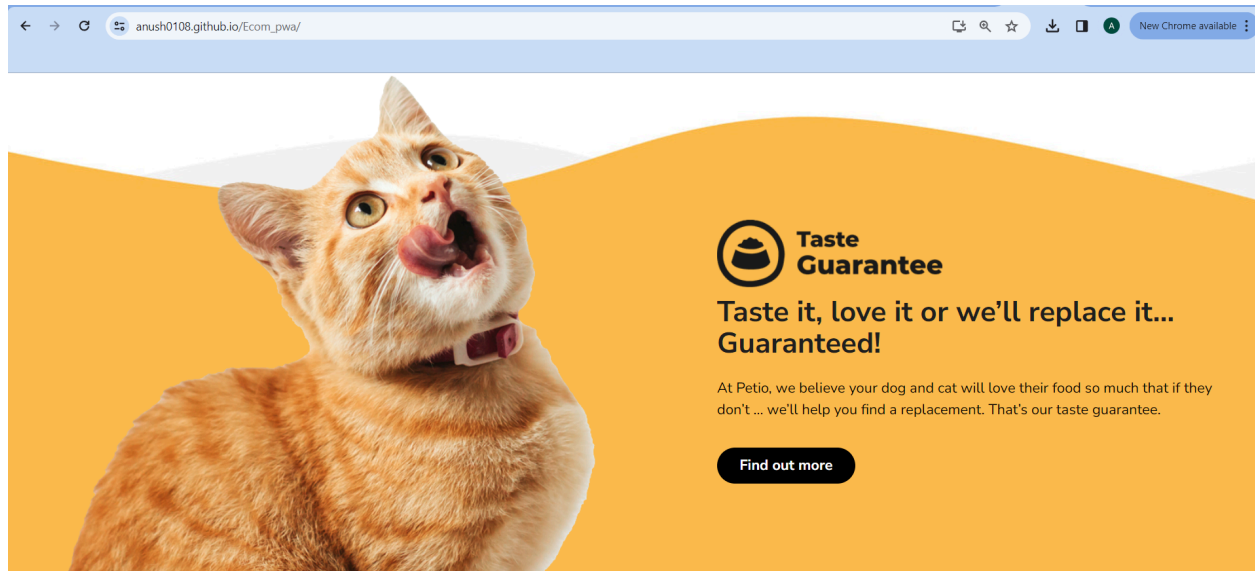
Branch

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](#)



Best Seller

Conclusion : We have deployed our Ecommerce Pwa Kitter via GitHub pages and understood the working of Github pages.