

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

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.

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 :

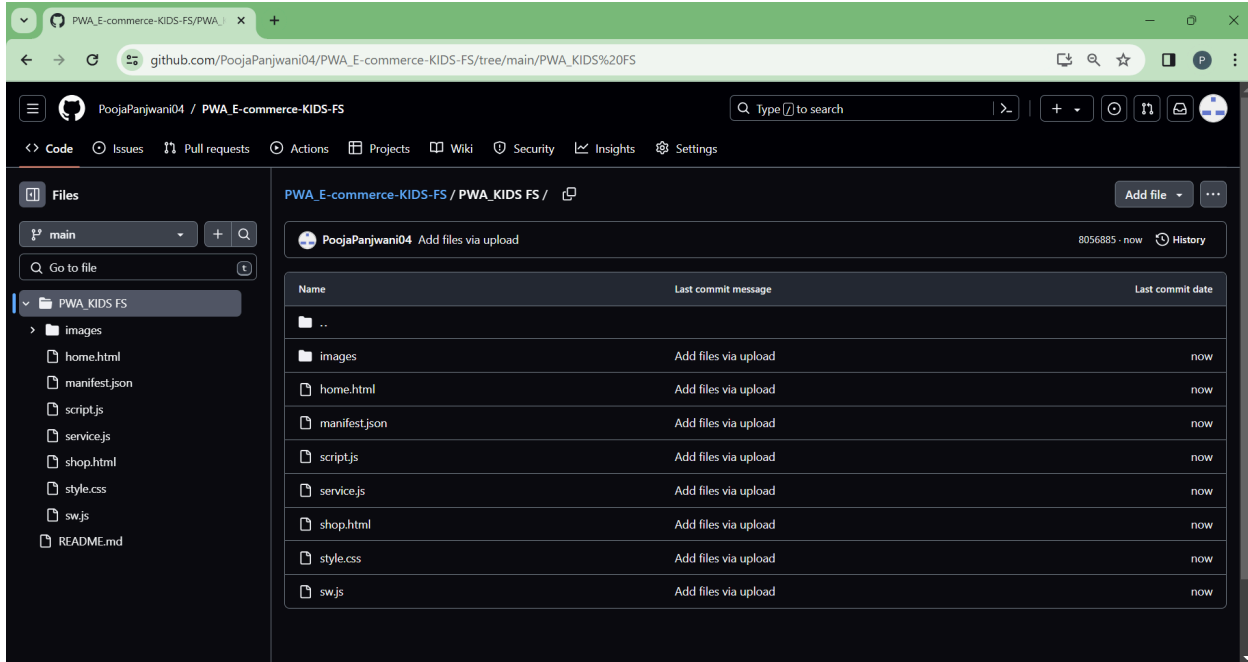
1. Hosted by Google. Enough said.
2. Authentication, Cloud Messaging, and a whole lot of other handy services will be available to you.
3. A real-time database will be available to you, which can store 1 GB of data.
4. You'll also have access to a blob store, which can store another 1 GB of data.
5. 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.

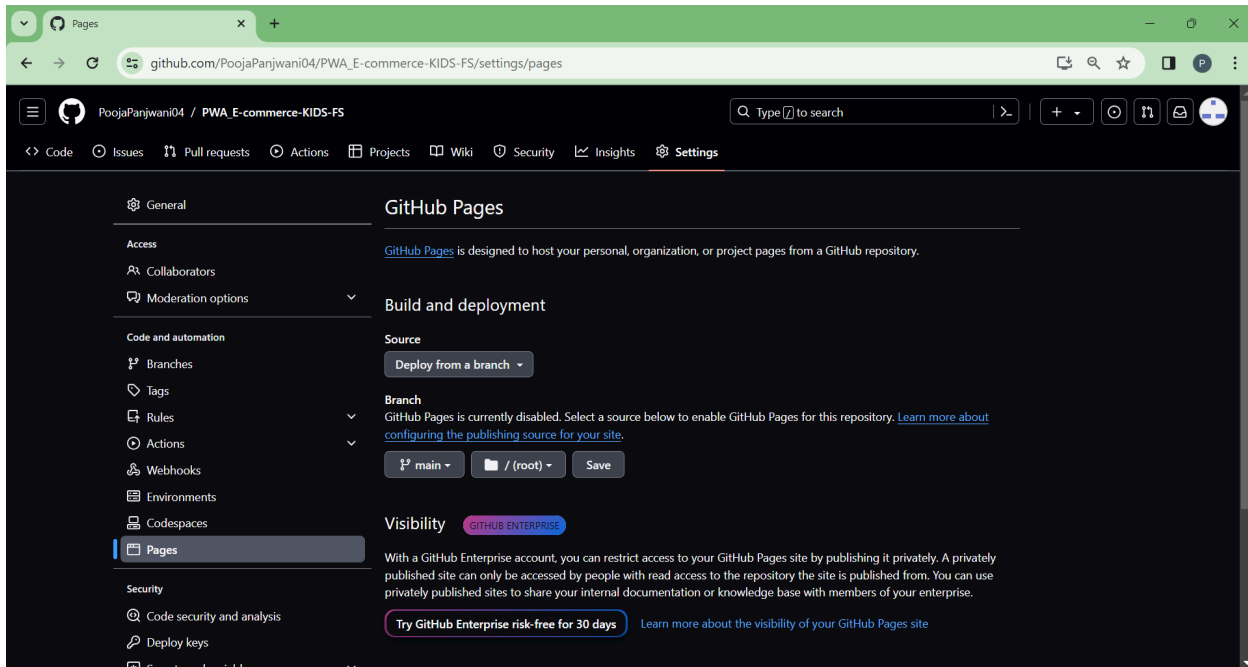
GITHUB REPO : <https://github.com/PoojaPanjwani04/PWA-KIDS-FS>

HOSTED LINK : <https://poojapanjwani04.github.io/PWA-KIDS-FS/home.html>



This screenshot shows the GitHub repository interface for 'PoojaPanjwani04 / PWA_E-commerce-KIDS-FS'. The left sidebar displays the file tree with the 'main' branch selected. The 'PWA_KIDS FS' directory is expanded, showing files like 'home.html', 'manifest.json', 'script.js', 'service.js', 'shop.html', 'style.css', 'sw.js', and 'README.md'. The main content area shows the 'Add files via upload' interface, which includes a table listing the files and their commit history.

Name	Last commit message	Last commit date
...		
images	Add files via upload	now
home.html	Add files via upload	now
manifest.json	Add files via upload	now
script.js	Add files via upload	now
service.js	Add files via upload	now
shop.html	Add files via upload	now
style.css	Add files via upload	now
sw.js	Add files via upload	now



This screenshot shows the 'GitHub Pages' settings for the repository 'PoojaPanjwani04 / PWA_E-commerce-KIDS-FS'. The 'General' tab is selected, showing the 'Build and deployment' section. The 'Source' is set to 'Deploy from a branch', and the 'Branch' is set to 'main'. The 'Visibility' section indicates that the site is currently disabled and requires a GitHub Enterprise account for private publishing.

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.](#)

main / (root) Save

Visibility GITHUB ENTERPRISE

With a GitHub Enterprise account, you can restrict access to your GitHub Pages site by publishing it privately. A privately published site can only be accessed by people with read access to the repository the site is published from. You can use privately published sites to share your internal documentation or knowledge base with members of your enterprise.

[Try GitHub Enterprise risk-free for 30 days](#) [Learn more about the visibility of your GitHub Pages site](#)

The screenshot shows a GitHub Actions workflow run titled "pages build and deployment #1". The workflow is triggered via dynamic and has a status of "Success". The total duration is 44s, and there is 1 artifact. The workflow steps are:

- build (22s)
- report-build-status (3s)
- deploy (9s)

The deploy step is linked to the artifact "https://poojapanjani04.github.io/PWA_E-...".

The screenshot shows a web browser displaying a children's fashion store website. The URL is "poojapanjani04.github.io/PWA-KIDS-FS/home.html". The website has a pink header with navigation links: Home, Shop, and Contact. A large banner image shows a family (father, mother, and child) shopping in a clothing store. The text on the banner reads: "DISCOVER THE LATEST TRENDS IN CHILDREN'S FASHION". A "Shop Now" button is visible at the bottom of the banner.

Conclusion : In essence, the experiment effectively demonstrated deploying an Ecommerce Progressive Web App (PWA) to GitHub Pages. While we encountered hurdles such as connection issues and HTTPS configuration, the experiment provided valuable hands-on experience and underscored the practicality and advantages of hosting PWAs on GitHub Pages. Going forward, persistently refining deployment strategies and capitalizing on the strengths of PWAs will be paramount to maximizing the potential of Ecommerce solutions on web platforms.

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