

MAD and PWA Lab

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Class: D15A

Roll no:10

Experiment - 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.

Implementation:

github.com/Atharva089/restaurant-site-hosted

Atharva089 / restaurant-site-hosted

restaurant-site-hosted Public

forked from nsevindi87/multipage-website

main 1 Branch 0 Tags

Go to file Add file Code

This branch is 8 commits ahead of nsevindi87/multipage-website:main . Contribute Sync fork

Atharva089 service-worker added 01b5ec7 · 5 days ago 32 Commits

image	Blog section is completed!	2 years ago
README.md	Update README.md	2 years ago
about.html	Update about.html	30 days ago
blog.html	Update blog.html	30 days ago
contact.html	Update contact.html	30 days ago
index.html	Update index.html	30 days ago
menu.html	Update menu.html	30 days ago
products.html	Update products.html	30 days ago
review.html	Update review.html	30 days ago

About

Multipage Restaurant Website

[multipage-website-restaurant-ns.netlify.a...](#)

Readme Activity 0 stars 0 watching 0 forks

Releases

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

Packages

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

github.com/Atharva089/restaurant-site-hosted/settings/pages

Atharva089 / restaurant-site-hosted

Code Pull requests Actions Projects Wiki Security Insights Settings

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.

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. 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](#)

github.com/Atharva089/restaurant-site-hosted/settings/pages

github.com / Atharva089 / restaurant-site-hosted

CodePull requestsActionsProjectsWikiSecurityInsightsSettings

GitHub Pages source saved.

GeneralAccessCollaboratorsModeration optionsCode and automationBranchesTagsRulesActionsWebhooksEnvironmentsCodespacesPagesSecurityCode security and analysis

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

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.

Custom domain

Custom domain

Custom domains allow you to serve your site from a domain other than atharva089.github.io. [Learn more about configuring custom domains.](#)

github.com/Atharva089/restaurant-site-hosted/actions/runs/8497343445/job/23275815336

github.com / Atharva089 / restaurant-site-hosted

CodePull requestsActionsProjectsWikiSecurityInsightsSettings

pages build and deployment #1

Re-run all jobs

SummaryJobsbuildreport-build-statusdeployRun detailsUsage

build

succeeded 1 minute ago in 32s

BetaGive feedbackSearch logs

Set up job5s

Pull ghcr.io/actions/jekyll-build-pagesv1.0.1211s

Checkout6s

Build with Jekyll2s

Upload artifact4s

Post Checkout0s

Complete job0s

github.com/Atharva089/restaurant-site-hosted/settings/pages

Atharva089 / restaurant-site-hosted

Type to search

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GitHub Pages

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

Your site is live at <https://atharva089.github.io/restaurant-site-hosted/>

Last deployed by Atharva089 2 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](#)

Custom domain

atharva089.github.io/restaurant-site-hosted/

Home About Menu Products Review Contact Blog

Search Cart

Fast Food Delivery

Order Now

Image of a pizza with toppings like arugula, tomatoes, and cheese.

Link to the Github repository:

[Github link](#)

Hosted Link: <https://atharva089.github.io/restaurant-site-hosted/>

Conclusion:

In this experiment, we have registered a service worker, and completed the install and activation process for a new service worker for the E-commerce PWA