

EXPERIMENT NO: - 10

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Class:- D15A

Roll:No: - 22 / 41

AIM: - To study and implement deployment of Ecommerce PWA to GitHub Pages.

Theory: -

GitHub Pages: Static Website Hosting Made Simple

GitHub Pages is a free hosting service that allows users to publish **public webpages directly from a GitHub repository**. It is particularly useful for **static websites, project documentation, and blogs**.

Key Features

- **Jekyll Integration:** Built-in support for Jekyll enables easy blogging.
- **Custom Domains:** Allows users to configure their own URLs.
- **Automatic Page Deployment:** Simply push your changes to the repository, and the updates go live.

Why Choose GitHub Pages?

- **Completely Free:** No hosting charges.
- **Seamless GitHub Integration:** Works directly with your repositories.
- **Quick Setup:** Just create a repository, push your files, and your site is live.

Who Uses GitHub Pages?

Companies like **Lyft, CircleCI, and HubSpot** use GitHub Pages for their documentation and static sites. It is widely adopted, appearing in **775 company stacks and 4,401 developer stacks**.

Pros & Cons

Pros

- Familiar interface for GitHub users.

- Simple deployment via the [gh-pages](#) branch.
- Supports custom domains with easy DNS configuration.

Cons

- Repositories need to be public unless you have a paid plan.
 - Limited HTTPS support for custom domains (expected to improve).
 - Jekyll plugins have limited support.
-

Firestore: A Full-Featured Real-Time Backend

Firestore is a cloud-based **real-time application platform** developed by Google. It enables developers to build **dynamic, collaborative applications** with ease.

Key Features

- **Real-Time Database:** Automatically syncs data across all connected clients.
- **Cloud-Based Storage:** JSON-based storage accessible via REST APIs.
- **Scalable Infrastructure:** Works well with existing services and scales automatically.
- **Authentication & Cloud Messaging:** Secure login and push notifications.

Why Choose Firestore?

- **Instant Backend Setup:** No need to build a separate backend.
- **Fast & Responsive:** Real-time data synchronization.
- **Built-in HTTPS:** Free SSL certificates for custom domains.

Who Uses Firestore?

Companies like **Instacart, 9GAG, and Twitch** rely on Firestore for their backend needs. Firestore is widely adopted, appearing in **1,215 company stacks and 4,651 developer stacks**.

Pros & Cons

Pros

- **Hosted by Google**, ensuring reliability and security.
- **Comes with authentication, messaging, and real-time database services.**
- **Free HTTPS support** for all custom domains.

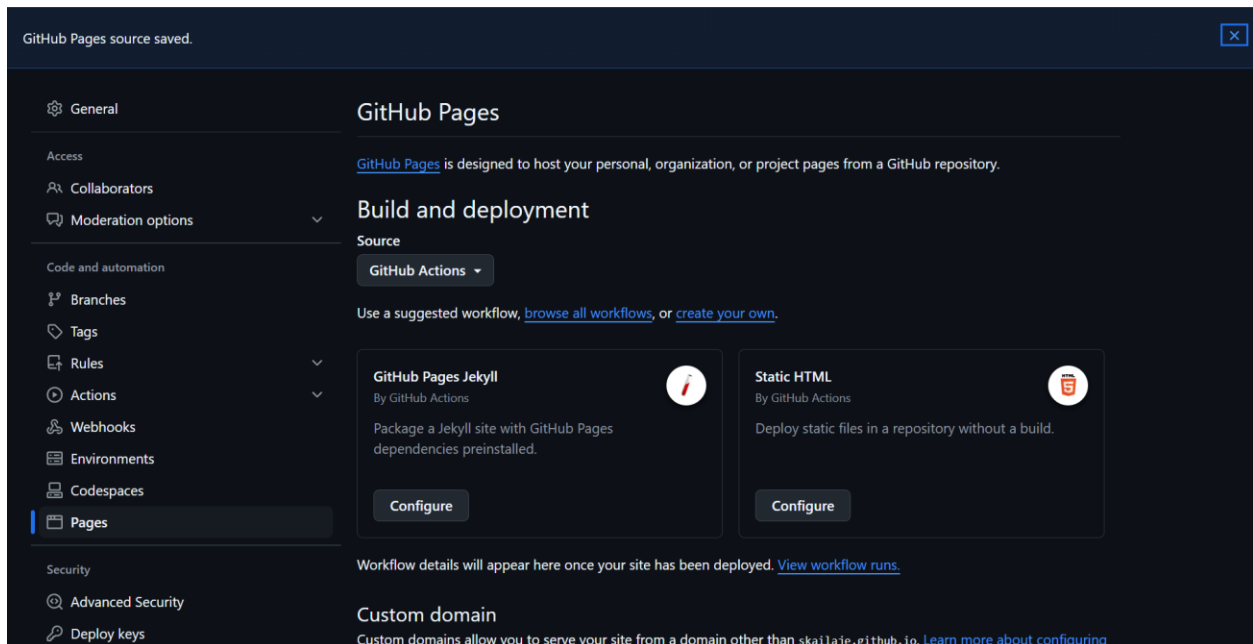
Cons

- **Limited Free Plan:** 10 GB of data transfer per month (can be mitigated with a CDN).
- **Command-Line Deployment:** No GUI for hosting.
- **No Built-in Static Site Generator Support:** Unlike GitHub Pages, Firebase doesn't natively support static site generators like Jekyll.

Link to our GitHub repository:

https://skailaje.github.io/MPL_PWA/

Github Screenshot:



Skailaje / MPL_PWA

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<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

MPL_PWA / .github / workflows / static.yml in main

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Spaces 2 No wrap

```
1 # Simple workflow for deploying static content to GitHub Pages
2 name: Deploy static content to Pages
3
4 on:
5   # Runs on pushes targeting the default branch
6   push:
7     branches: ["main"]
8
9   # Allows you to run this workflow manually from the Actions tab
10  workflow_dispatch:
11
12  # Sets permissions of the GITHUB_TOKEN to allow deployment to GitHub Pages
13  permissions:
14    contents: read
15    pages: write
16    id-token: write
17
18  # Allow only one concurrent deployment, skipping runs queued between the run in-progress and latest queued.
19  # Use Control + Shift + M to toggle the tab key moving focus. Alternatively, use esc then tab to move to the next interactive element
20  # on the page.
21  # Use Control + Space to trigger autocomplete in most situations.
```

Marketplace Documentation

Search Marketplace for Actions

Featured Actions

Cache

By actions

Cache artifacts like dependencies and build outputs to improve workflow execution time

4.8k

Setup Node.js environment

By actions

Setup a Node.js environment by adding problem matchers and optionally downloading and adding it to the PATH

4.1k

Setup Go environment

By actions

Setup a Go environment and add it to the PATH

1.5k

Setup .NET Core SDK

By actions

996

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```

Commit changes

Commit message

Create static.yml

Extended description

Add an optional extended description...

☒ Commit directly to the main branch

☐ Create a new branch for this commit and start a pull request [Learn more about pull requests](#)

Cancel Commit changes

Marketplace Documentation

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Summary

Jobs

deploy

Run details

Usage

Workflow file

deploy

succeeded 11 hours ago in 12s

Search logs

> Set up job

2s

> Checkout

1s

> Setup Pages

0s

> Upload artifact

1s

> Deploy to GitHub Pages

5s

> Post Checkout

1s

> Complete job

0s

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Insights

Settings

Actions

New workflow

All workflows

Deploy static content to Pages

Management

Caches

Deployments

Attestations

Runners

Usage metrics

Performance metrics

All workflows

Showing runs from all workflows

Filter workflow runs

1 workflow run

Event Status Branch Actor

Create static.yml

main

now

In progress

Deploy static content to Pages #1: Commit [a75332c](#) pushed by Skailaje



For Further Inquiries :
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