

EXPERIMENT NO: - 10

Name:- Gunjan Chandnani/ Akruti Dabas/ Vanshika Ambwani

Class:- D15A

Roll:No: - 06/ 11 /02

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.

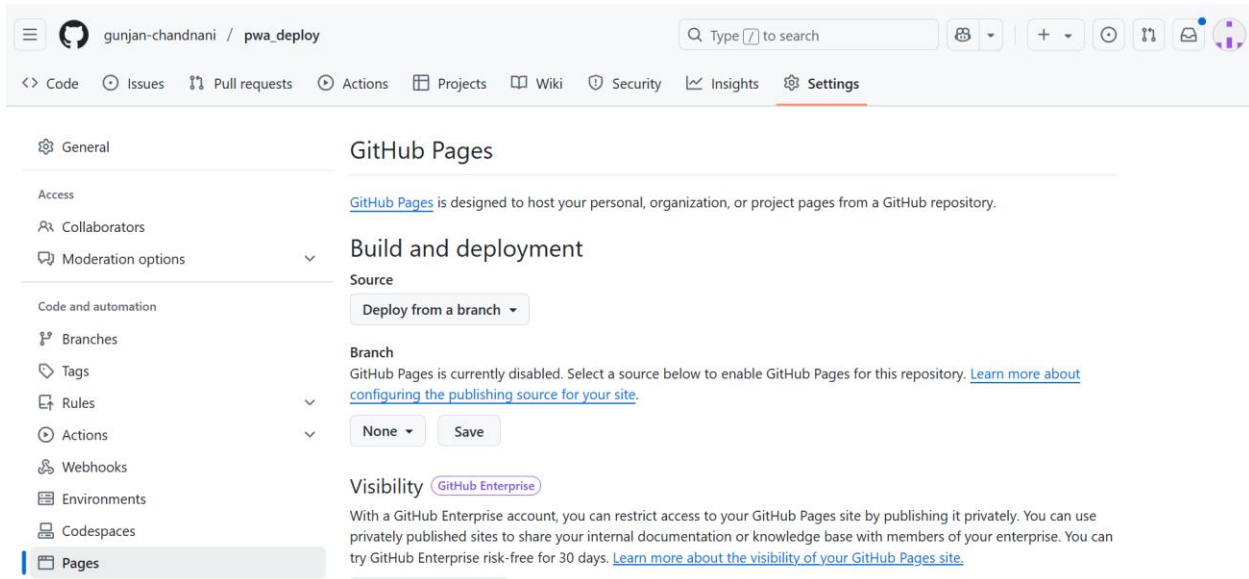
Cons

- **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://gunjan-chandnani.github.io/pwa_deploy/

Github Screenshot:



gunjan-chandnani / pwa_deploy

Type **/** to search

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

GitHub Pages source saved.

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

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 /docs folder in the main branch. [Learn more about configuring the publishing source for your site.](#)

main /docs Save

Learn how to [add a Jekyll theme](#) to your site.

gunjan-chandnani / pwa_deploy

Type **/** to search

<> Code

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pages build and deployment #2

Re-run all jobs

Summary

Jobs

build

report-build-status

deploy

Run details

Usage

build

succeeded now in 19s

Search logs

Set up job 1s

Pull ghcr.io/actions/jekyll-build-pages:v1.0.13 11s

Checkout 1s

Build with Jekyll 3s

Upload artifact 1s

Post Checkout 0s

Complete job 0s

gunjan-chandnani / pwa_deploy

Type **/** to search

<> Code

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Codespaces

Pages

GitHub Pages

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

Your site is live at https://gunjan-chandnani.github.io/pwa_deploy/
Last deployed by gunjan-chandnani 1 minute 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.

gunjan-chandnani / pwa_deploy

Type to search

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Actions

New workflow

All workflows

pages-build-deployment

Management

- Caches
- Deployments
- Attestations
- Runners
- Usage metrics
- Performance metrics

All workflows

Showing runs from all workflows

3 workflow runs

	Event	Status	Branch	Actor
pages build and deployment	pages-build-deployment #3: by gunjan-chandnani	main	2 minutes ago	42s
pages build and deployment	pages-build-deployment #2: by gunjan-chandnani	main	17 minutes ago	39s
pages build and deployment	pages-build-deployment #1: by gunjan-chandnani	main	19 minutes ago	32s

gunjan-chandnani / pwa_deploy

Type to search

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

pages build and deployment #3

Re-run all jobs

Summary

Jobs

- build
- report-build-status
- deploy

Run details

- Usage

Triggered via dynamic 3 minutes ago

gunjan-chandnani eea02f7 main

Status: Success

Total duration: 42s

Artifacts: 1

pages-build-deployment

on: dynamic

build19s

report-build-status6s

deploy10s

https://gunjan-chandnani.github.io/pwa_d...

gunjan-chandnani.github.io/pwa_deploy/

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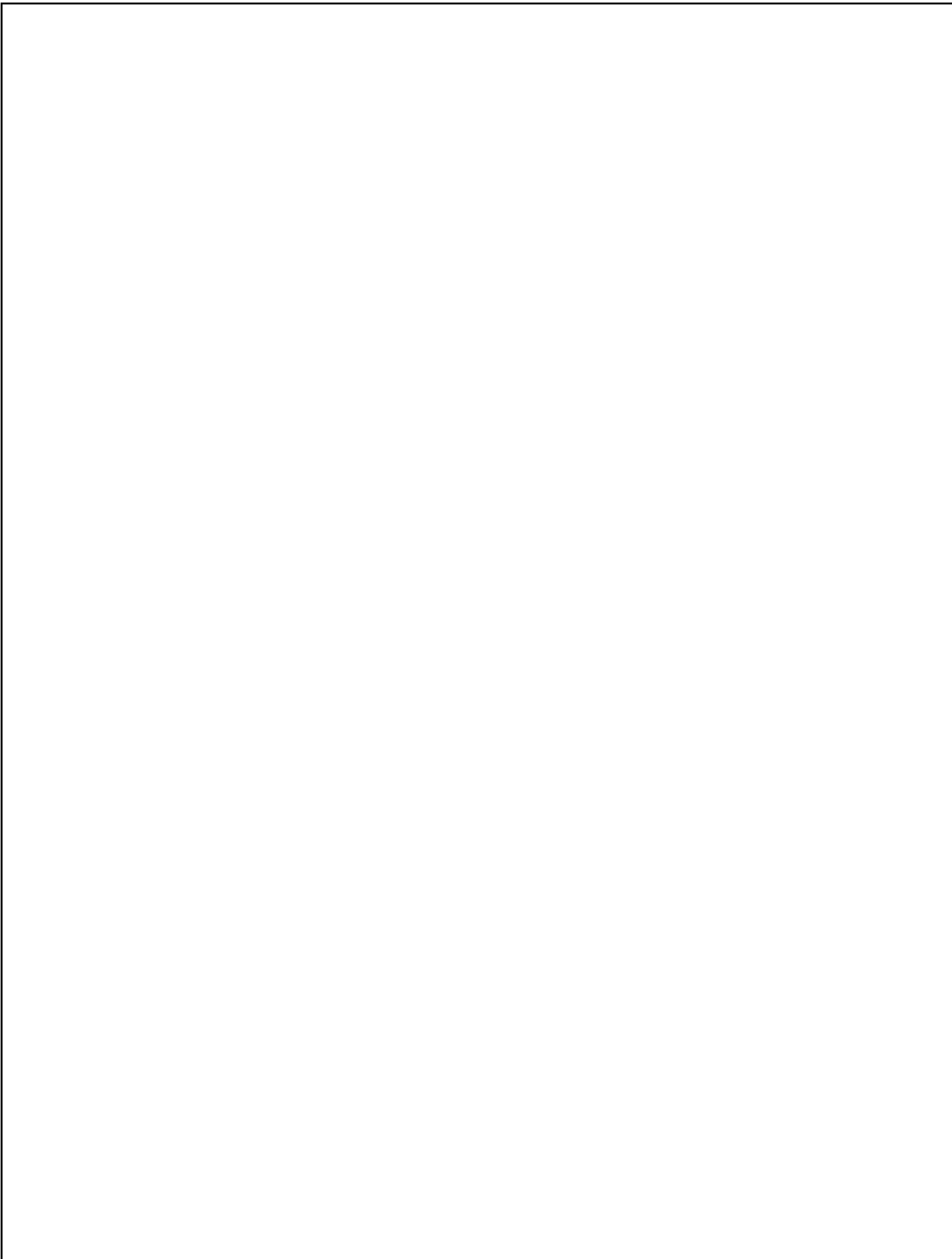
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