Name - Tejas Shailendra Rokade
Div - D15A   Roll no - 50
Batch - C

Experiment - 10

Aim - To study and implement deployment of Ecommerce PWA to GitHub Pages

Theory -
GitHub Pages and Firebase are both excellent platforms for hosting websites and web applications, each with its own set of features, advantages, and limitations. Here's a comparison of the two:

 GitHub Pages:
Pros:
1. Familiar interface for GitHub users.
2. Easy setup process.
3. Supports Jekyll for blogging out of the box.
4. Allows custom domains.

Cons:
1. Website code is public unless using a private repository.
2. No HTTPS support for custom domains (currently).
3. Limited plugin support for Jekyll.

 Firebase:
Pros:
1. Hosted by Google, ensuring reliability and scalability.
2. Offers authentication, cloud messaging, and other useful services.
3. Provides a real-time database and blob store.
4. HTTPS support with free SSL certificate provisioned for custom domains.

Cons:
1. Limited to 10 GB of data transfer per month.
2. Command-line interface only.
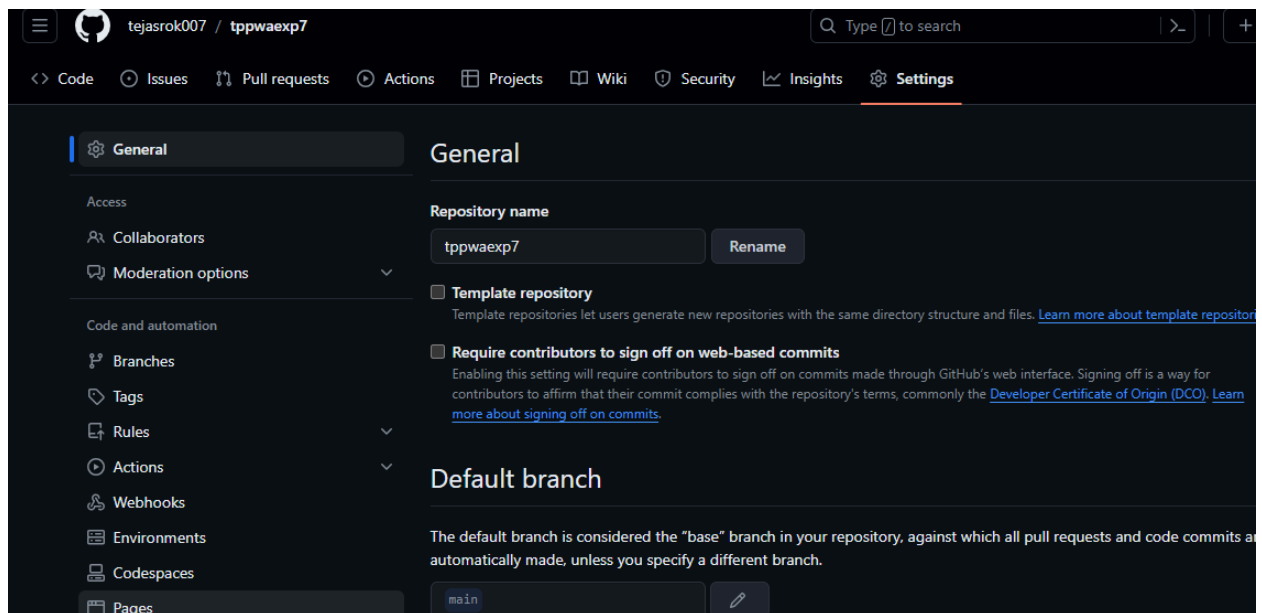
 Reasons to Choose GitHub Pages:
1. Free to use and integrates seamlessly with GitHub repositories.
2. Easy setup process, particularly for static websites.
3. Great for hosting blogs with Jekyll.
4. Supports custom domains.

Reasons to Choose Firebase:
1. Real-time backend capabilities make it suitable for dynamic and collaborative applications.
2. Provides a broader range of services beyond hosting, such as authentication and cloud messaging.
3. HTTPS support and free SSL certificates for custom domains.
4. Hosted by Google, ensuring reliability and scalability.

In summary, GitHub Pages is a great choice for static websites, particularly for users already familiar with GitHub, while Firebase offers a more comprehensive platform for building dynamic and real-time applications with additional backend services. Your choice should depend on the specific needs and requirements of your project.

Screenshot -

GitHub Pages

[GitHub Pages](#) is designed to host your personal, organization, or project pages from a GitHub repository.

Access

Collaborators

Moderation options

Build and deployment

Source

Deploy from a branch ▾

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

Codespaces

Pages

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

Security

Code security and analysis

Deploy keys

Secrets and variables

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](#)

Ⓗ **tppwaexp7** `Public`   📌 Pin   👁 Unwatch 1 ▾

⑂ main ▾   ⑂ 1 Branch   ◷ 0 Tags   🔍 Go to file t   Add file ▾   <> Code ▾

Ⓗ tejasrok007 pwa last check issue solved 🟡   34252b7 · 10 minutes ago   ◷ 6 Commits

                                        pending

📁 assets   finally done pwa   14 minutes ago

📄 favicon.svg   changing whole site   54 minutes ago

📄 icon-192x192.png   finally done pwa   14 minutes ago

📄 icon-512x512.png   finally done pwa   14 minutes ago

Ⓗ **tppwaexp7** `Public`   📌 Pin   👁 Unwatch 1 ▾

⑂ main ▾   ⑂ 1 Branch   ◷ 0 Tags

Ⓗ tejasrok007 pwa last check issue solve

📁 assets

📄 favicon.svg

📄 icon-192x192.png

📄 icon-512x512.png   finally done pwa   14 minutes ago

📄 index.html   pwa last check issue solved   10 minutes ago

All checks have passed   ✕

4 successful checks

✓ ⬡ pages build and deployment / build (dynamic) Successful in 18s   Details

✓ ⬡ pages build and deployment / report-build-status (dynamic) Successful in 3s   Details

✓ ⬡ pages build and deployment / deploy (dynamic) Successful in 8s   Details

✓ ▲ Vercel - Deployment has completed   Details

pages build and deployment #1

Re-run all jobs

Summary

Jobs
- build
- report-build-status
- deploy

Run details
- Usage

build
succeeded 1 minute ago in 18s

Beta Give feedback   Search logs

Step	Time
Set up job	1s
Pull ghcr.io/actions/jekyll-build-pages:v1.0.12	11s
Checkout	0s
Build with Jekyll	3s
Upload artifact	1s
Post Checkout	0s
Complete job	0s

pages build and deployment #1

Re-run all jobs

Summary

Jobs
- build
- report-build-status
- deploy

Run details
- Usage

report-build-status
succeeded 1 minute ago in 3s

Beta Give feedback   Search logs

Step	Time
Set up job	0s
Report Build Status	0s
Complete job	0s

General

Access
- Collaborators
- Moderation options

Code and automation
- Branches
- Tags
- Rules
- Actions
- Webhooks

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.
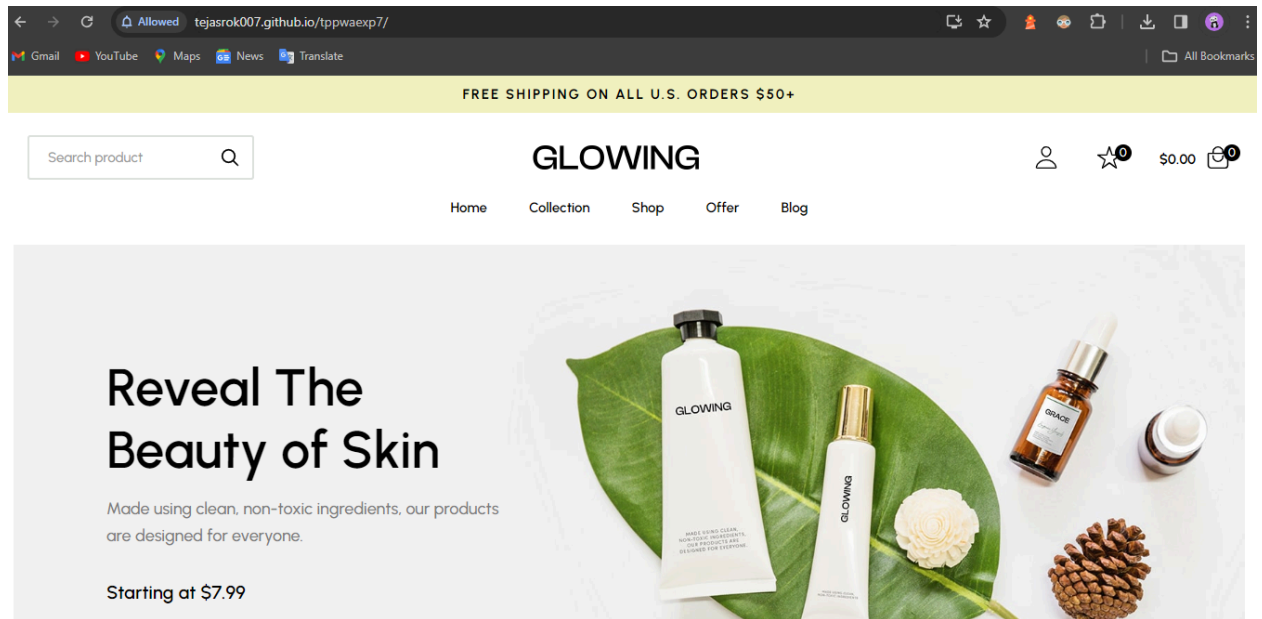
Your site is live at https://tejasrok007.github.io/tppwaexp7/

Last deployed by tejasrok007 2 minutes ago

Visit site

Build and deployment

Source

Deploy from a branch

Github - https://tejasrok007.github.io/tppwaexp7/

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.