

Practical 10

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Class: D15B

Roll No.: 35

Aim:

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

Theory:

GitHub Pages is a free hosting service provided by GitHub to publish static websites directly from a GitHub repository. It supports HTML, CSS, JavaScript, and other front-end files, making it ideal for hosting PWAs.

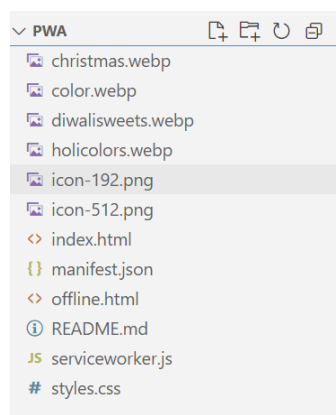
What we implemented in our code

In this experiment, we deployed our E-commerce PWA project, "Eco Friendly Gadgets Collection", to GitHub Pages using these steps:

- We ensured all necessary PWA files were in place, such as index.html, manifest.json, serviceworker.js, and offline assets.
- The index.html file used relative paths correctly so resources load properly after deployment.
- We registered the service worker to enable offline access and caching of essential files.
- The manifest.json provided metadata to support "Add to Home Screen" functionality.
- We created a GitHub repository and pushed all project files to it.
- Then, from GitHub Settings → Pages, we selected the main branch and the / (root) folder as the source.
- After saving, GitHub generated a live link through which we accessed the deployed PWA.

This deployment made our PWA fully functional and accessible online with service worker support, offline capabilities, and installability features.

Folder Structure:



Screenshots:**Creation of new repository in public settings.**

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (*).

Owner *

Repository name *

Sharvari-21

Festival-Combo

✓ Festival-Combo is available.

Great repository names are short and memorable. Need inspiration? How about [silver-chainsaw](#) ?

Description (optional)

☒ Public

Anyone on the internet can see this repository. You choose who can commit.

☐ Private

You choose who can see and commit to this repository.

Initialize this repository with:

github.com/Sharvari-21/Festival-Combo

Sharvari-21 / Festival-Combo

Type / to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Festival-Combo Public

Pin Unwatch 1 Fork 0 Star 0

Set up GitHub Copilot

Use GitHub's AI pair programmer to autocomplete suggestions as you code.

Get started with GitHub Copilot

Add collaborators to this repository

Search for people using their GitHub username or email address.

Invite collaborators

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH

https://github.com/Sharvari-21/Festival-Combo.git

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

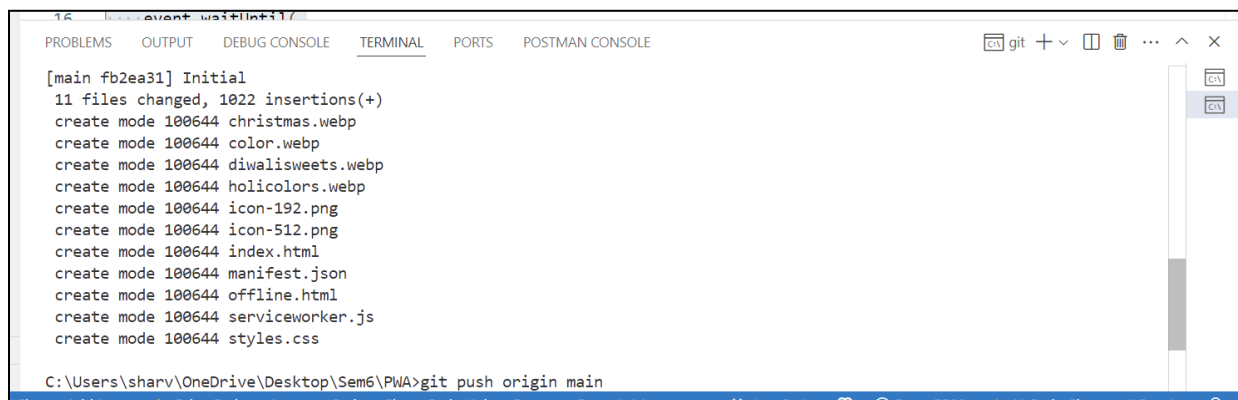
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS POSTMAN CONSOLE

cmd

```
C:\Users\sharv\OneDrive\Desktop\Sem6\PWA>git remote add origin https://github.com/Sharvari-21/Festival-Combo.git

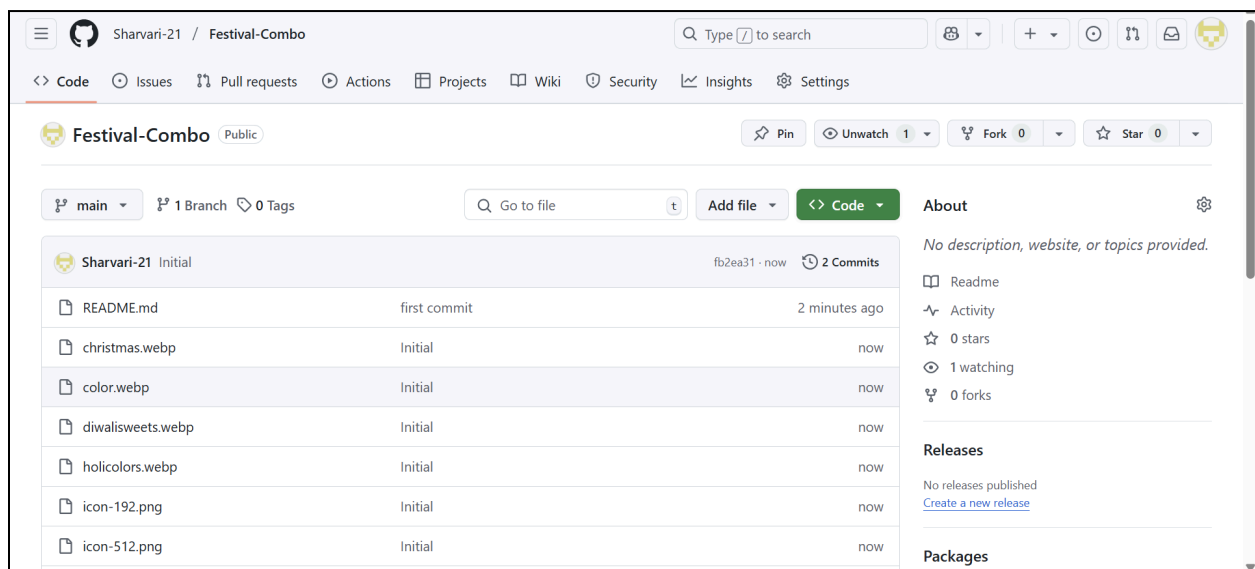
C:\Users\sharv\OneDrive\Desktop\Sem6\PWA>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 236 bytes | 118.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Sharvari-21/Festival-Combo.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

C:\Users\sharv\OneDrive\Desktop\Sem6\PWA>



```
[main fb2ea31] Initial
11 files changed, 1022 insertions(+)
create mode 100644 christmas.webp
create mode 100644 color.webp
create mode 100644 diwalisweets.webp
create mode 100644 holicolors.webp
create mode 100644 icon-192.png
create mode 100644 icon-512.png
create mode 100644 index.html
create mode 100644 manifest.json
create mode 100644 offline.html
create mode 100644 serviceworker.js
create mode 100644 styles.css

C:\Users\sharv\OneDrive\Desktop\Sem6\PWA>git push origin main
```



Sharvari-21 / Festival-Combo

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Festival-Combo Public

main 1 Branch 0 Tags

Go to file Add file Code

Sharvari-21 Initial fb2ea31 · now 2 Commits

README.md	first commit	2 minutes ago
christmas.webp	Initial	now
color.webp	Initial	now
diwalisweets.webp	Initial	now
holicolors.webp	Initial	now
icon-192.png	Initial	now
icon-512.png	Initial	now

About

No description, website, or topics provided.

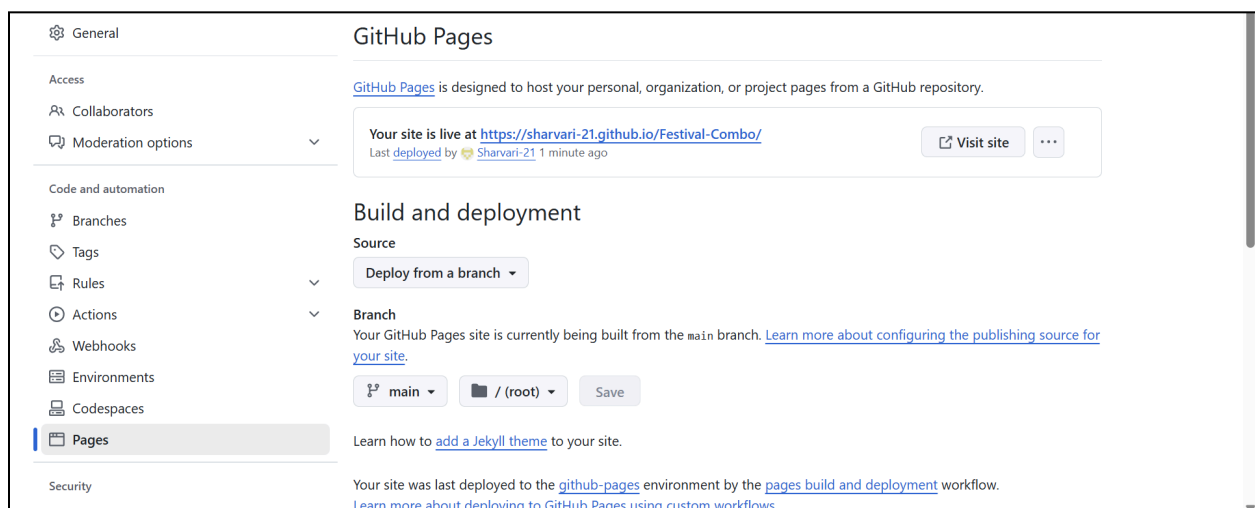
Readme Activity 0 stars 1 watching 0 forks

Releases

No releases published

Create a new release

Packages



General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

Codespaces

Pages

Security

GitHub Pages

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

Your site is live at <https://sharvari-21.github.io/Festival-Combo/>

Last deployed by Sharvari-21 1 minute ago

Visit site

Build and deployment

Source

Deploy from a branch

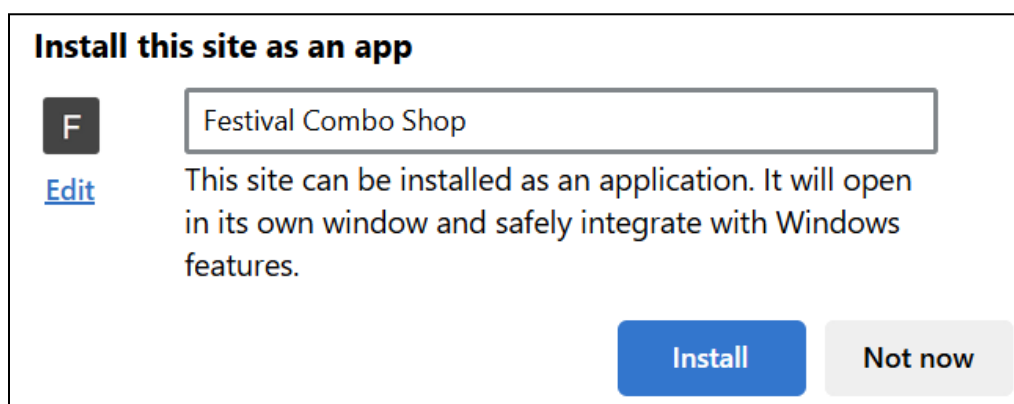
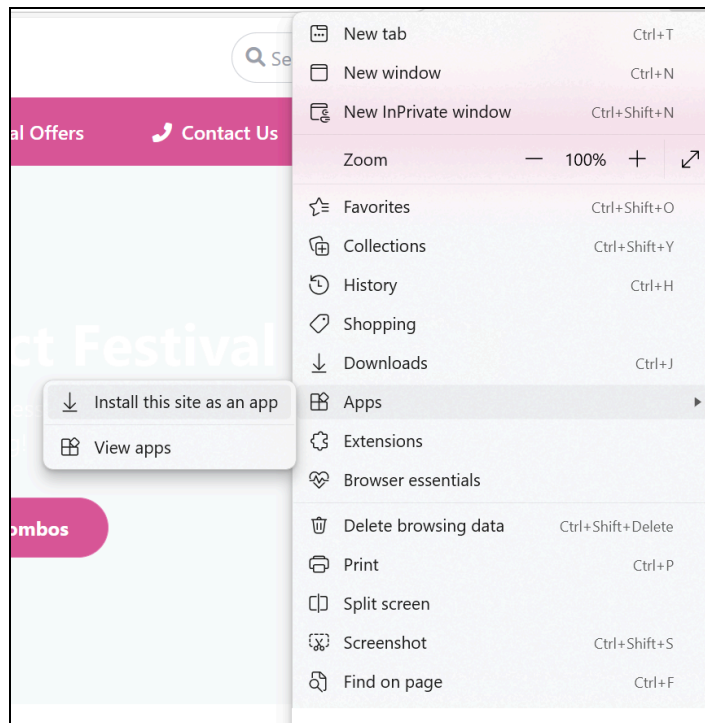
Branch

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.

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](#)



The system is available for downloading from the link

Conclusion:

In this experiment, we deployed the website PWA on the internet with the help of git pages. We took proper care of manifest.json file and serviceworker.js file. A link was generated by Git Pages. It took a lot of time for the link to be generated, but after the link creation, the website was visible and working.