St. JOSEPH'S
GROUP OF INSTITUTIONS
OMR, CHENNAI - 119

aws

Placement Empowerment Program

Cloud Computing and DevOps Centre

Deploy Your Static Website Using GitHub Pages

"Host your local Git repository's static website directly using GitHub Pages"

Name: DHARSHINI P DEPARTMENT: IT

St. JOSEPH'S COLLEGE OF ENGINEERING | St. JOSEPH'S INSTITUTE OF TECHNOLOGY
AUTONOMOUS INSTITUTIONS, AFFILIATED TO ANNA UNIVERSITY

Introduction

GitHub Pages is a **free hosting service** provided by GitHub that allows users to deploy static websites directly from a repository. It is an excellent choice for hosting portfolios, documentation, or any other static web content.

Overview

By leveraging GitHub Pages, developers can **publish websites directly from a GitHub repository** without needing additional hosting services. The process involves **pushing local files to a GitHub repository** and **enabling GitHub Pages in the repository settings.**

Objective

The primary objectives of this POC are:

- To host a static website using GitHub Pages.
- To understand how to link a GitHub repository to a live web page.
- To practice version control and website deployment using GitHub.

Important Considerations

- GitHub Pages only supports **static content** (HTML, CSS, JavaScript).
- A repository must be **public** unless using GitHub Pages with a Pro plan.

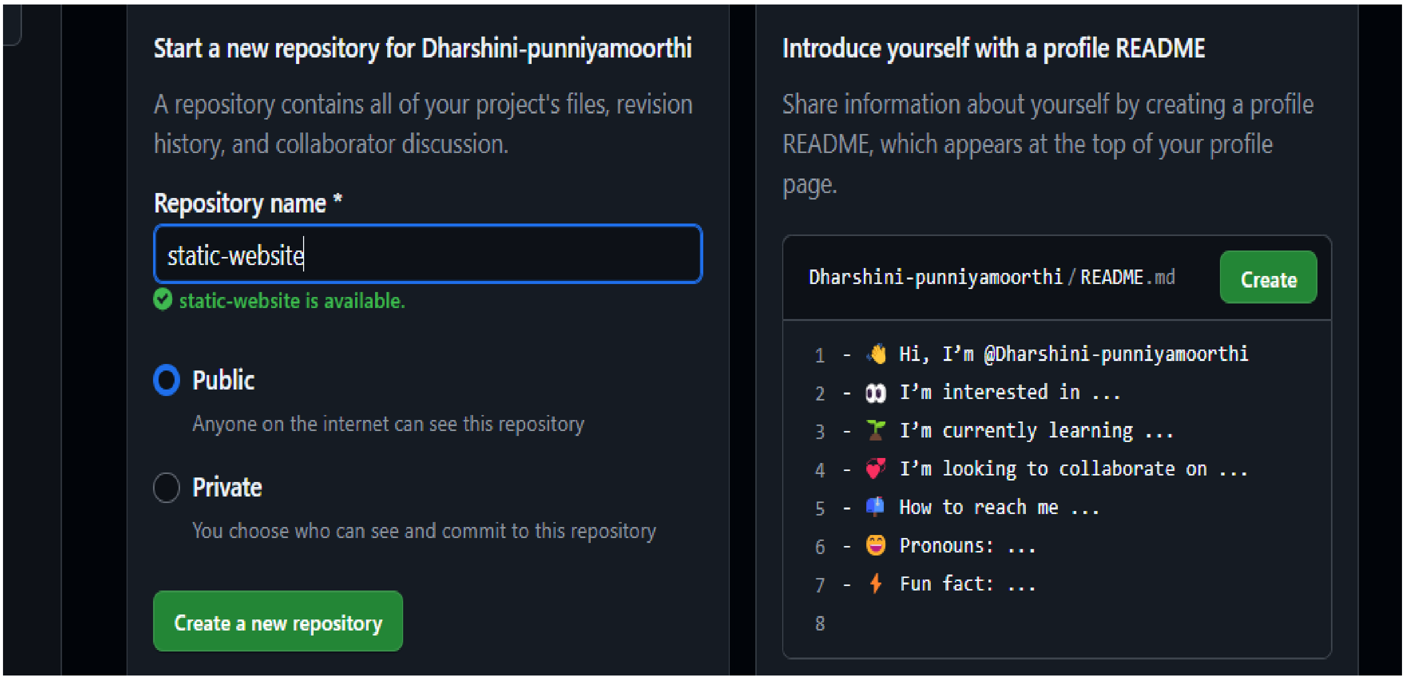
- The default branch for deployment is **main or gh-pages** (depending on the setup).

Step-by-Step Overview

Step 1:

Create a GitHub Repository

1. Log in to GitHub.
2. Click on **New Repository** and provide a name (e.g., my-website).
3. Choose **Public** repository (recommended for free hosting).
4. Click **Create Repository**.



Start a new repository for Dharshini-punniyamoorthi

A repository contains all of your project's files, revision history, and collaborator discussion.

Repository name *

static-website

✓ static-website is available.

● Public

Anyone on the internet can see this repository

○ Private

You choose who can see and commit to this repository

Introduce yourself with a profile README

Share information about yourself by creating a profile README, which appears at the top of your profile page.

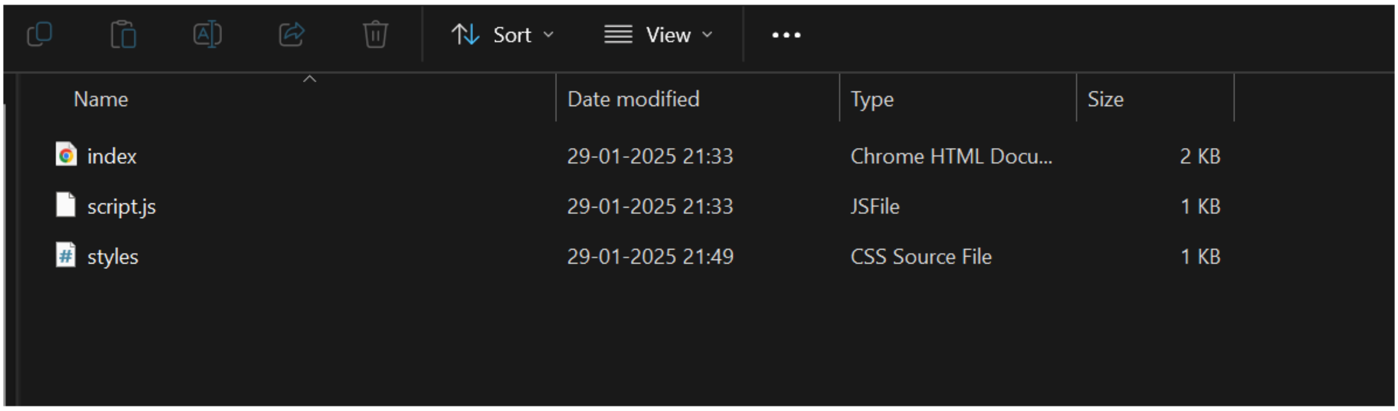
Dharshini-punniyamoorthi / README.md

```
- 👋 Hi, I’m @Dharshini-punniyamoorthi
- 👀 I’m interested in ...
- 🌱 I’m currently learning ...
- 💞️ I’m looking to collaborate on ...
- 📫 How to reach me ...
- 😄 Pronouns: ...
- ⚡ Fun fact: ...
```

Step 2:

Prepare Your Local Static Website

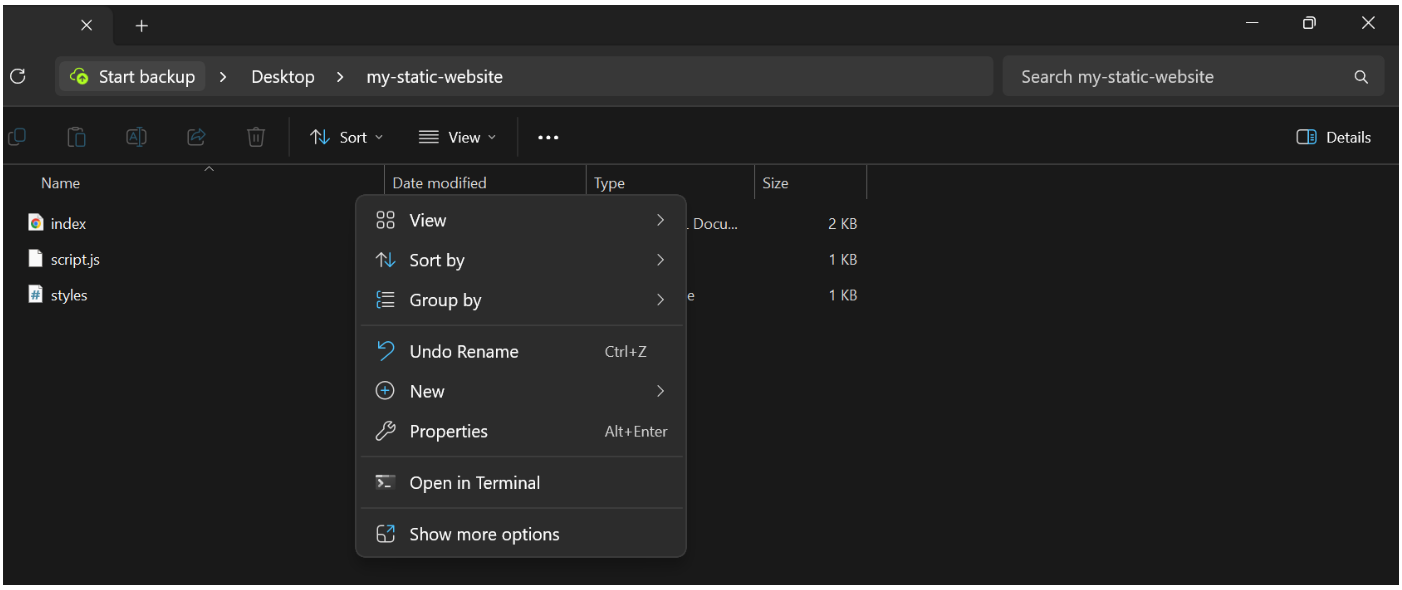
1. On your local system, **create a folder** for your website (e.g., my-website).
2. **Add the necessary files** (index.html, style.css, etc.).



Name	Date modified	Type	Size
index	29-01-2025 21:33	Chrome HTML Docu...	2 KB
script.js	29-01-2025 21:33	JSFile	1 KB
styles	29-01-2025 21:49	CSS Source File	1 KB

Step 3 :

Now inside your folder **open the terminal**



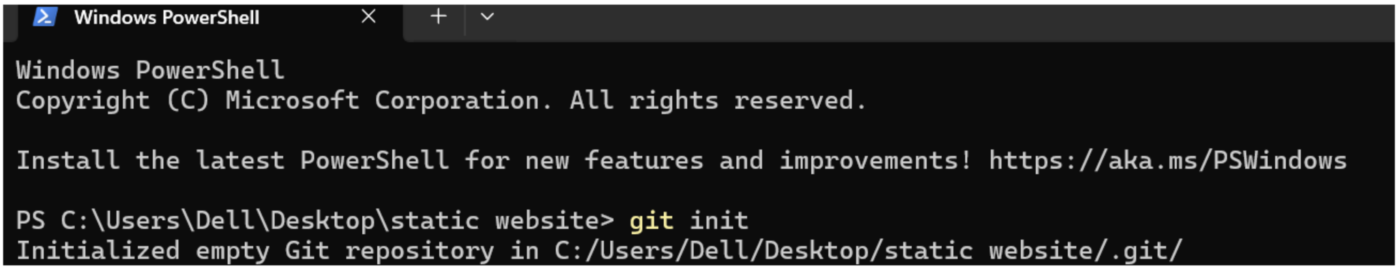
Name	Date modified	Type	Size
index		Docu...	2 KB
script.js			1 KB
styles		e	1 KB

Step 4:

Push Local Website to GitHub

1.Initialize Git in the project folder

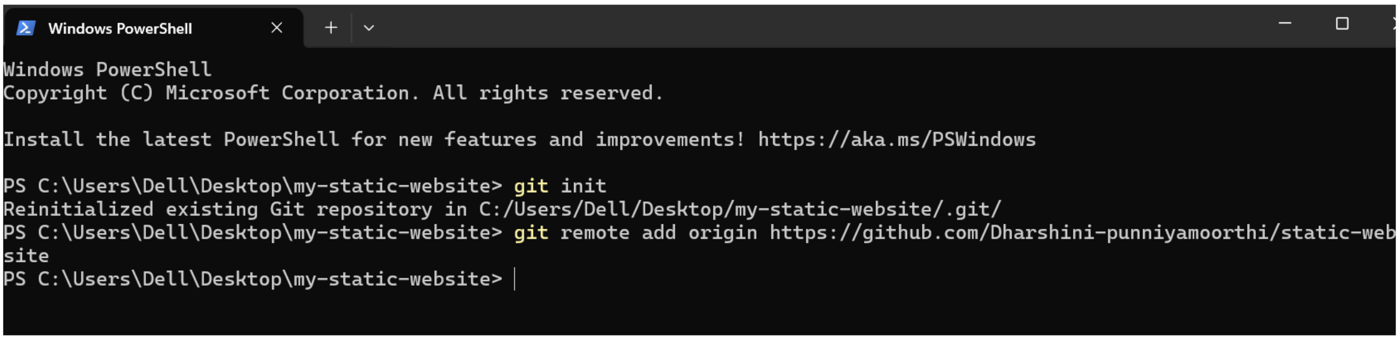
git init



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Dell\Desktop\static website> git init
Initialized empty Git repository in C:/Users/Dell/Desktop/static website/.git/
```

2.Link the repository

Git remote add origin https://github.com/your-username/my-website.git

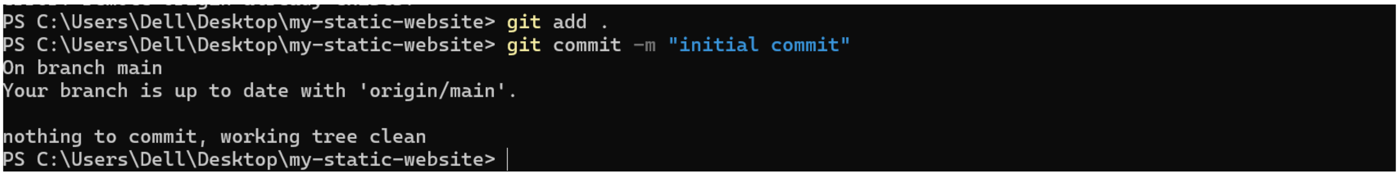


```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Dell\Desktop\my-static-website> git init
Reinitialized existing Git repository in C:/Users/Dell/Desktop/my-static-website/.git/
PS C:\Users\Dell\Desktop\my-static-website> git remote add origin https://github.com/Dharshini-punniyamoorthi/static-web
site
PS C:\Users\Dell\Desktop\my-static-website>
```

3.and commit the files

git add .

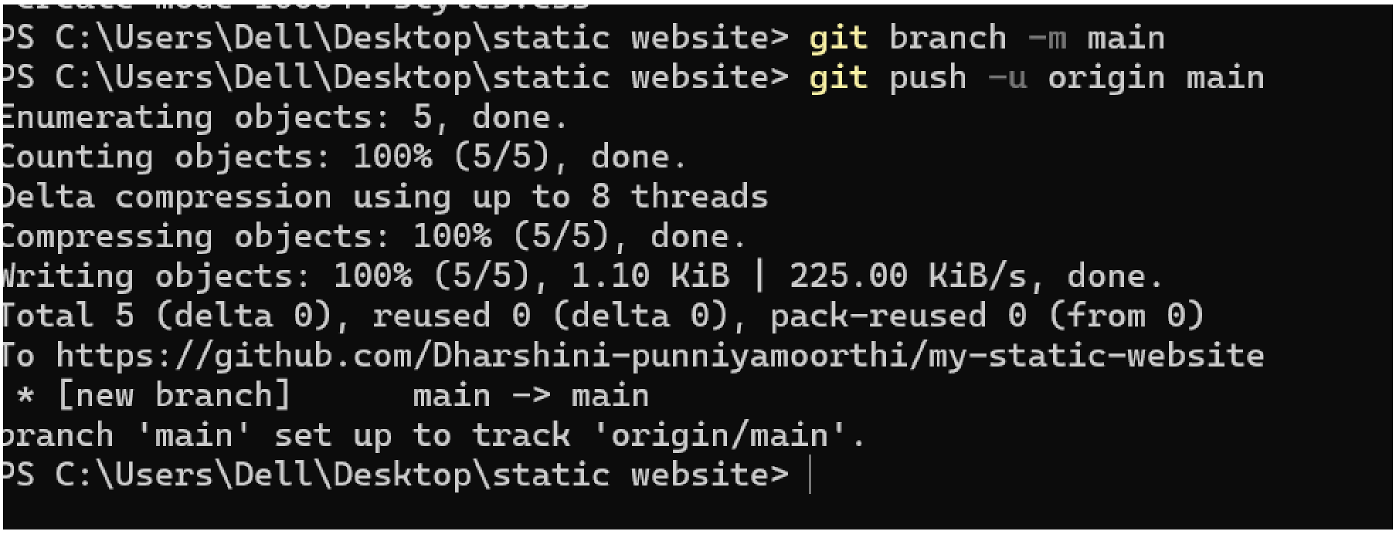
git commit -m "Initial commit"



```
error: remote origin already exists.
PS C:\Users\Dell\Desktop\my-static-website> git add .
PS C:\Users\Dell\Desktop\my-static-website> git commit -m "initial commit"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
PS C:\Users\Dell\Desktop\my-static-website>
```

4. Push the code to GitHub:

git branch -M main
git push -u origin main

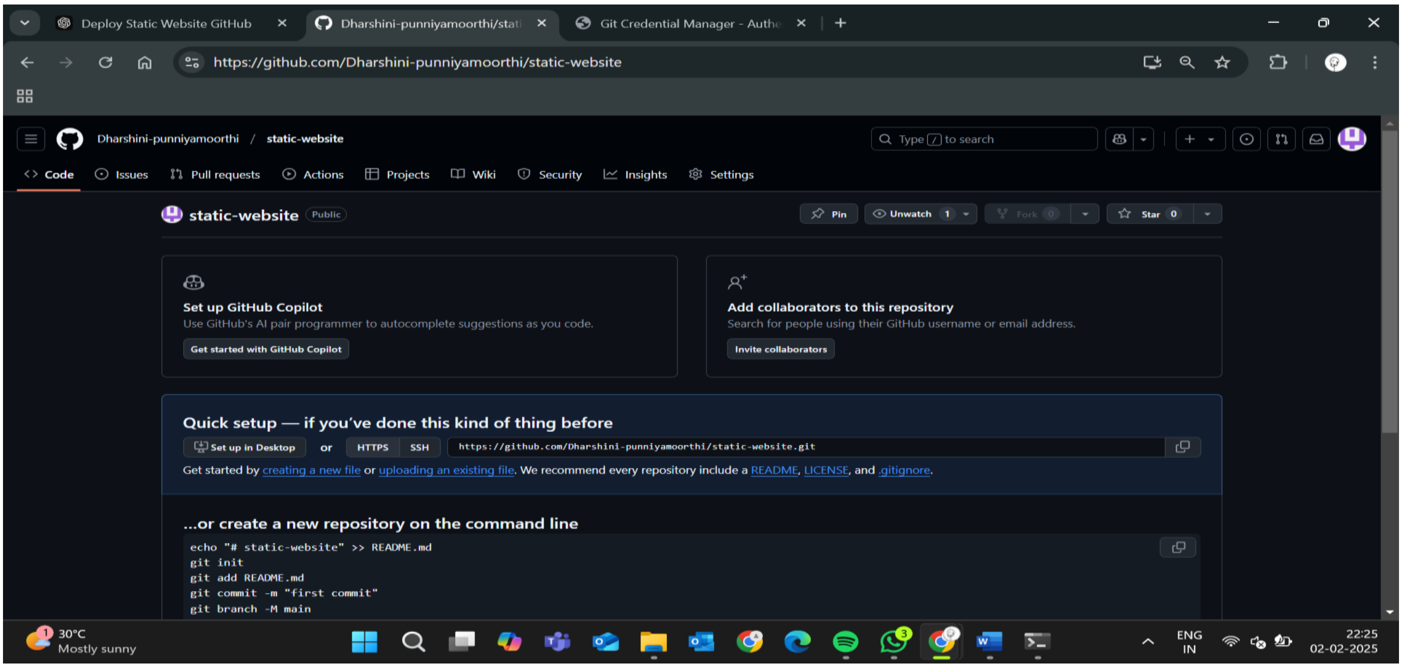


```
PS C:\Users\Dell\Desktop\static website> git branch -m main
PS C:\Users\Dell\Desktop\static website> git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 1.10 KiB | 225.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Dharshini-punniyamoorthi/my-static-website
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\Dell\Desktop\static website>
```

Step 5:

Enable GitHub Pages:

1.Go to your **GitHub repository**.



Deploy Static Website GitHub
Dharshini-punniyamoorthi/stati
Git Credential Manager - Authe
https://github.com/Dharshini-punniyamoorthi/static-website
Dharshini-punniyamoorthi / static-website
Type / to search
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
static-website
Public
Pin
Unwatch 1
Fork 0
Star 0
30°C
Mostly sunny
ENG
IN
22:25
02-02-2025

Set up GitHub Copilot
Use GitHub's AI pair programmer to autocomplete suggestions as you code.
Get started with GitHub Copilot

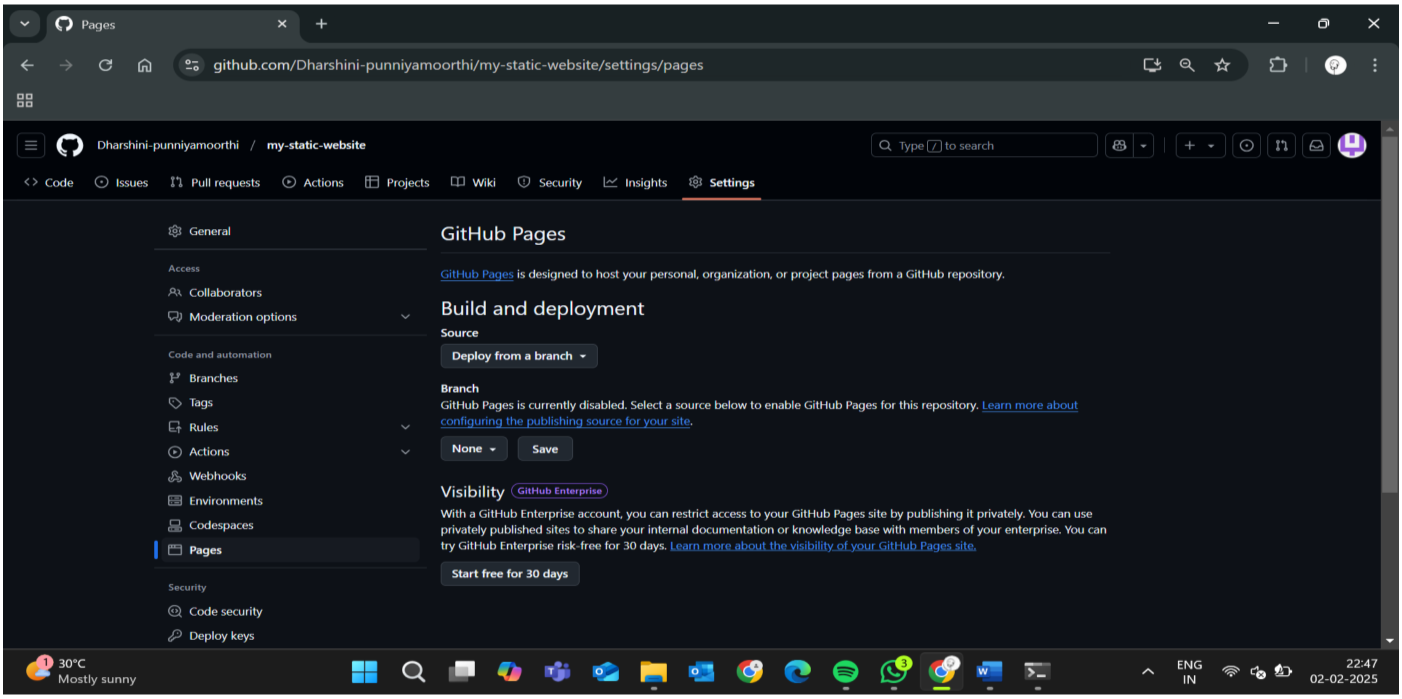
Add collaborators to this repository
Search for people using their GitHub username or email address.
Invite collaborators

Quick setup — if you've done this kind of thing before
Set up in Desktop or HTTPS SSH https://github.com/Dharshini-punniyamoorthi/static-website.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

```
echo "# static-website" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
```

2.Click on **Settings → Pages.**



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.

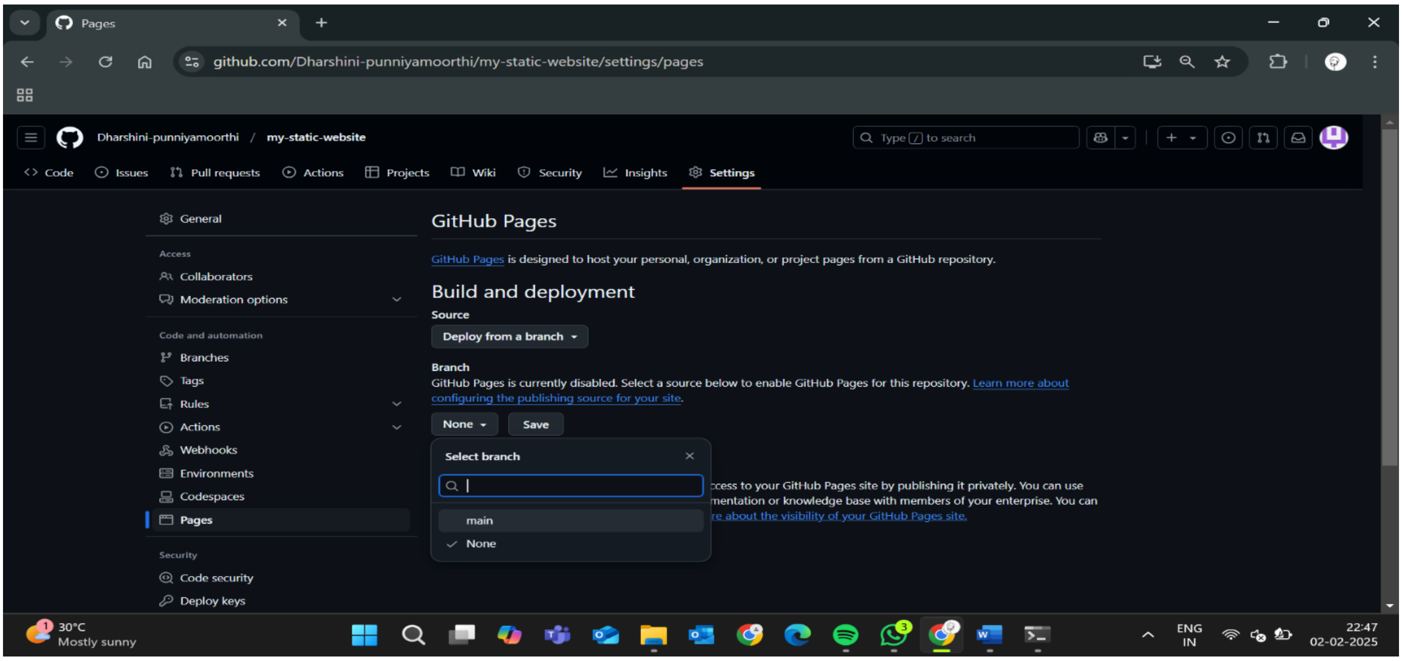
None ▾ Save

Visibility GitHub Enterprise

With a GitHub Enterprise account, you can restrict access to your GitHub Pages site by publishing it privately. You can use privately published sites to share your internal documentation or knowledge base with members of your enterprise. You can try GitHub Enterprise risk-free for 30 days. Learn more about the visibility of your GitHub Pages site.

Start free for 30 days

3.Under **Branch, select main** (or gh-pages if created separately).



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

Select branch ×

main

✓ None

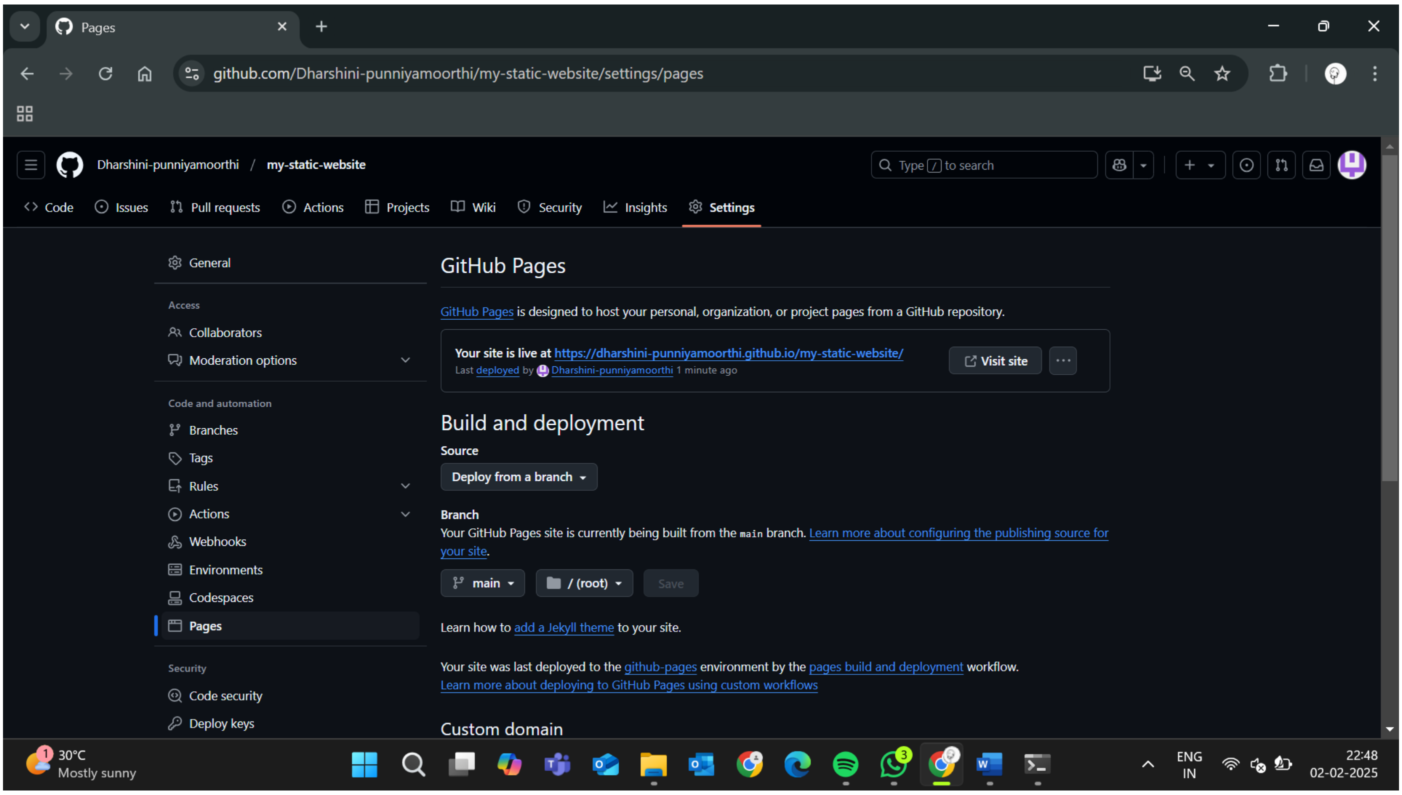
ccess to your GitHub Pages site by publishing it privately. You can use
mentation or knowledge base with members of your enterprise. You can
re about the visibility of your GitHub Pages site.

4.Click **Save.**

Step 6:

Access Your Website

1. GitHub will **generate a URL** for your website (e.g., https://your-username.github.io/my-website/).



GitHub Pages

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

Your site is live at https://dharshini-punniyamoorthi.github.io/my-static-website/
Last deployed by Dharshini-punniyamoorthi 1 minute ago

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

2. **Open the link in a browser** to view your deployed site.

Expected Outcome:

By completing this POC, you will:

- A live, publicly accessible static website hosted on GitHub Pages.
- Easy version control and updates through GitHub.

- Improved understanding of GitHub repository management and static website hosting.