

## **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

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# Introduction

GitHub Pages is a static site hosting service designed to publish your projects directly from a GitHub repository. It allows developers to showcase their work, create personal websites, or host documentation in an efficient, free, and straightforward way.

## Step-by-Step Overview

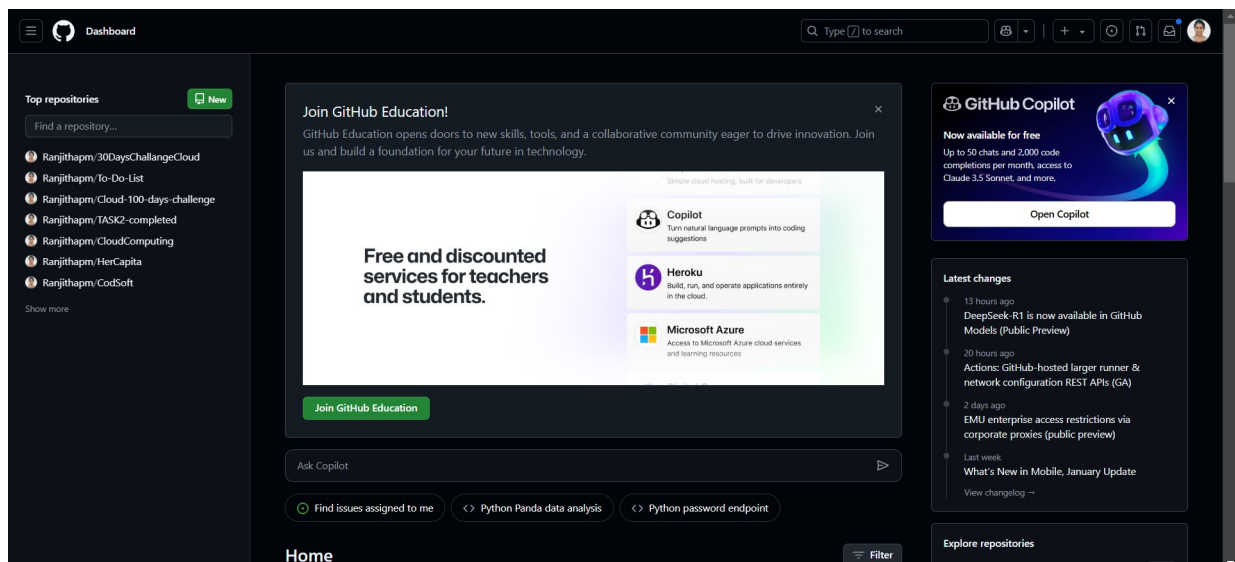
### Step 1:

#### Create a New Repository:

Once you're logged in, click the green **"New"** button on the top-right of your GitHub homepage to create a new repository.

Give your repository a name, for example, my-static-website.

Leave the other settings as default, and click **"Create repository"**.

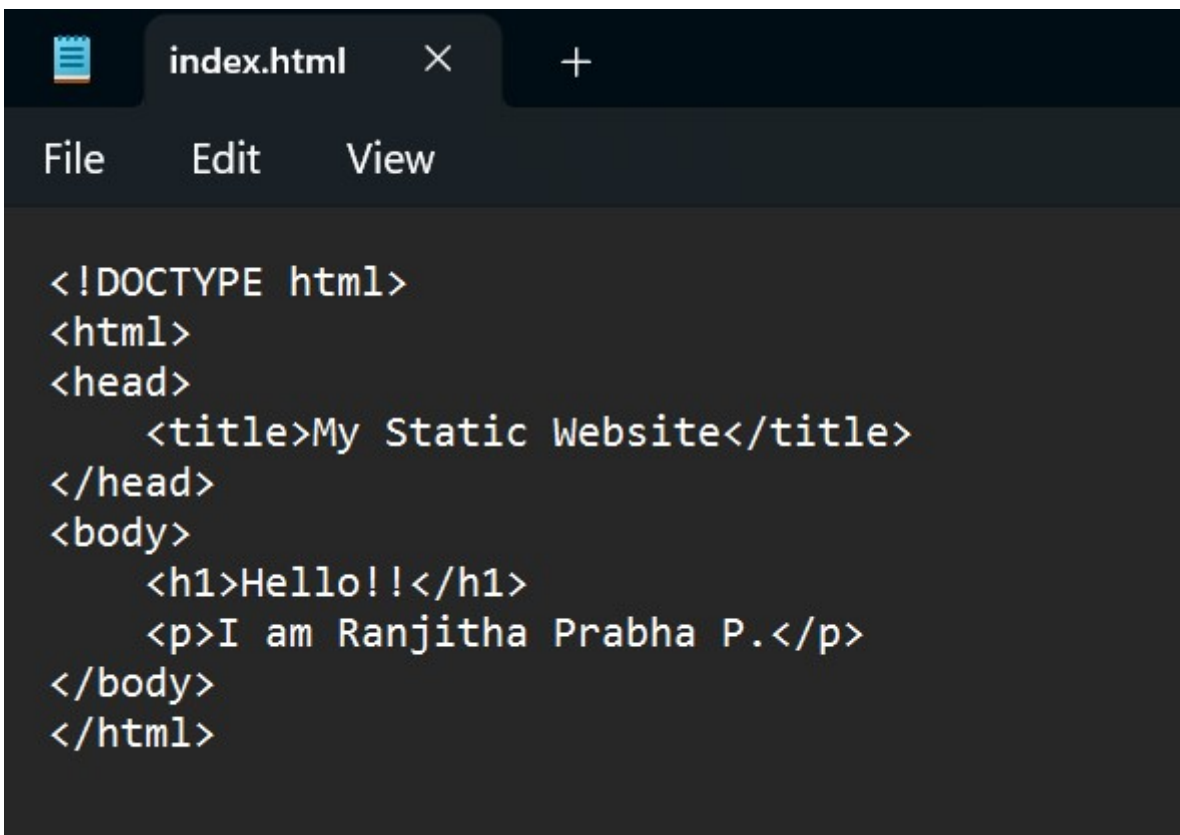


## Step 2:

Create a folder (e.g., my-static-website) where you'll keep all your website files.

Inside that folder, create the main file for your website, called **index.html**.

Here's a simple example of what to put in your index.html:

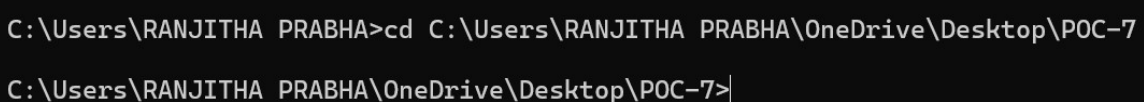
A screenshot of a code editor window with a dark theme. The title bar shows a tab for 'index.html' with a close button and a plus sign for new tabs. The menu bar includes 'File', 'Edit', and 'View'. The code area contains the following HTML: 

```
<!DOCTYPE html>
<html>
<head>
  <title>My Static Website</title>
</head>
<body>
  <h1>Hello!!</h1>
  <p>I am Ranjitha Prabha P.</p>
</body>
</html>
```

## Step 3:

Open **Command Prompt** and navigate to the folder where your index.html file is saved.

Use the cd command to navigate.

A screenshot of a Windows Command Prompt window. The text shows the user navigating to a specific directory using the 'cd' command. 

```
C:\Users\RANJITHA PRABHA>cd C:\Users\RANJITHA PRABHA\OneDrive\Desktop\POC-7
C:\Users\RANJITHA PRABHA\OneDrive\Desktop\POC-7>|
```

## Step 4:

Initialize a Git repository by running:

```
C:\Users\RANJITHA PRABHA\OneDrive\Desktop\POC-7>git init
Initialized empty Git repository in C:/Users/RANJITHA PRABHA/OneDrive/Desktop/POC-7/.git/
```

## Step 5:

Add your website files to the repository:

```
C:\Users\RANJITHA PRABHA\OneDrive\Desktop\POC-7>git add .

C:\Users\RANJITHA PRABHA\OneDrive\Desktop\POC-7>|
```

## Step 6:

Save the changes in Git with a commit message:

```
C:\Users\RANJITHA PRABHA\OneDrive\Desktop\POC-7>git commit -m "Initial commit"
[master (root-commit) 8dd597f] Initial commit
 1 file changed, 10 insertions(+)
 create mode 100644 index.html

C:\Users\RANJITHA PRABHA\OneDrive\Desktop\POC-7>|
```

## Step 7:

Go to your GitHub repository (the one you created earlier).

Copy the **repository URL**:

In your Command Prompt, link your local repository to the GitHub repository:

```
C:\Users\LANJITHA PRABHA\OneDrive\Desktop\POC-7>git remote add origin https://github.com/Ranjithapm/POC-7.git
C:\Users\LANJITHA PRABHA\OneDrive\Desktop\POC-7>
```

## Step 8:

Push your files to GitHub:

```
C:\Users\LANJITHA PRABHA\OneDrive\Desktop\POC-7>git branch -M main
C:\Users\LANJITHA PRABHA\OneDrive\Desktop\POC-7>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 363 bytes | 363.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Ranjithapm/POC-7.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
C:\Users\LANJITHA PRABHA\OneDrive\Desktop\POC-7>
```

## Step 9:

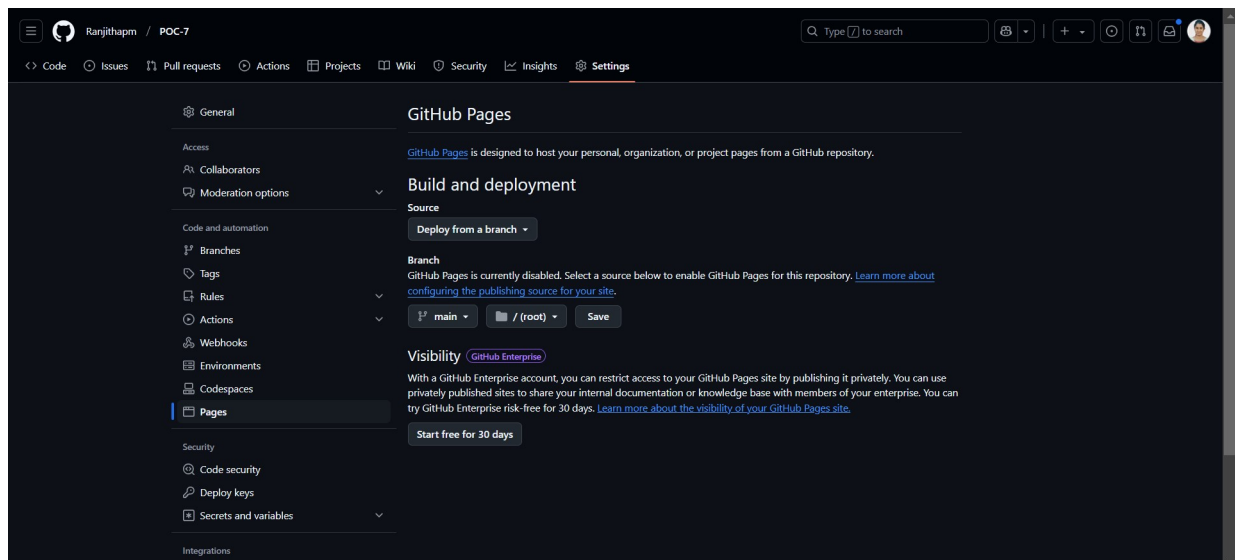
### Enable GitHub Pages

1. Go to your repository on GitHub.
2. Click on the **Settings** tab (it's near the top, next to Code, Issues, etc.).
3. Scroll down to the **Pages** section (on the left menu, under "Code and automation").

4. Under **Source**, select:

- **Branch:** main
- **Folder:** / (root)

5. Click **Save**.



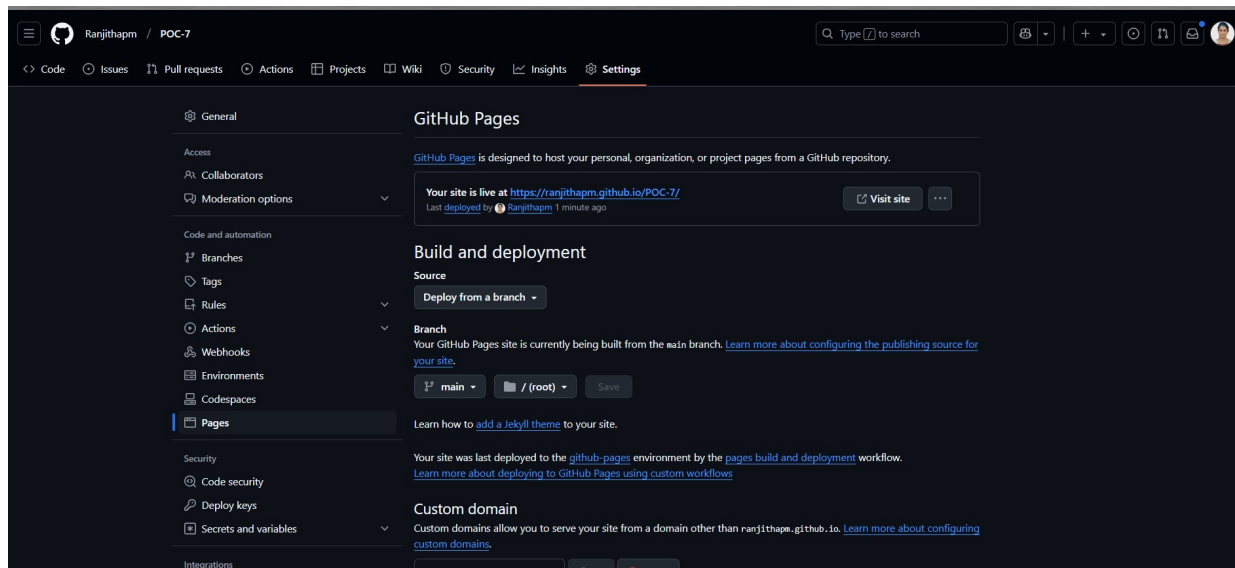
Step 10:

## Access Your Website

Wait a few minutes for GitHub Pages to deploy your site.

Visit your website at:

<https://<your-username>.github.io/<your-repository>>





**Hello!!**

I am Ranjitha Prabha P.

## Outcome

By completing this PoC of deploying a static website using GitHub Pages, you will:

1. Successfully create and configure a GitHub repository for your project.
2. Initialize a Git repository in your local project folder and link it to GitHub.
3. Upload your static website files (HTML, CSS, JavaScript) to GitHub.
4. Enable GitHub Pages in the repository settings to host your static website.
5. Access your static website live on the web via a GitHub Pages URL.
6. Gain hands-on experience with Git commands like git init, git add, git commit, git remote add, and git push.
7. Understand the process of hosting a static site for free using GitHub Pages.