



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



## **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 that enables developers to publish projects directly from a GitHub repository. It provides a free and efficient way to showcase work, create personal websites, and host documentation with ease.

## Overview

This project showcases the deployment of a static website using GitHub Pages. Beginning with setting up a GitHub repository, it walks through the essential steps to host a functional static site, including initializing a Git repository, pushing files to GitHub, and configuring GitHub Pages for deployment.

### Key Features of GitHub Pages:

- **Free Hosting** – Available for public repositories at no cost.
- **Static File Support** – Hosts HTML, CSS, and JavaScript files effortlessly.
- **Seamless Git Integration** – Easily manage and update your site with Git version control.

## Objectives

1. Explore the fundamentals of GitHub Pages and its deployment process.
2. Understand the significance of static website hosting and its applications.
3. Develop hands-on experience with Git and GitHub for version control and hosting.
4. Successfully deploy and publish a static website for public access.

## Importance of Hosting with GitHub Pages

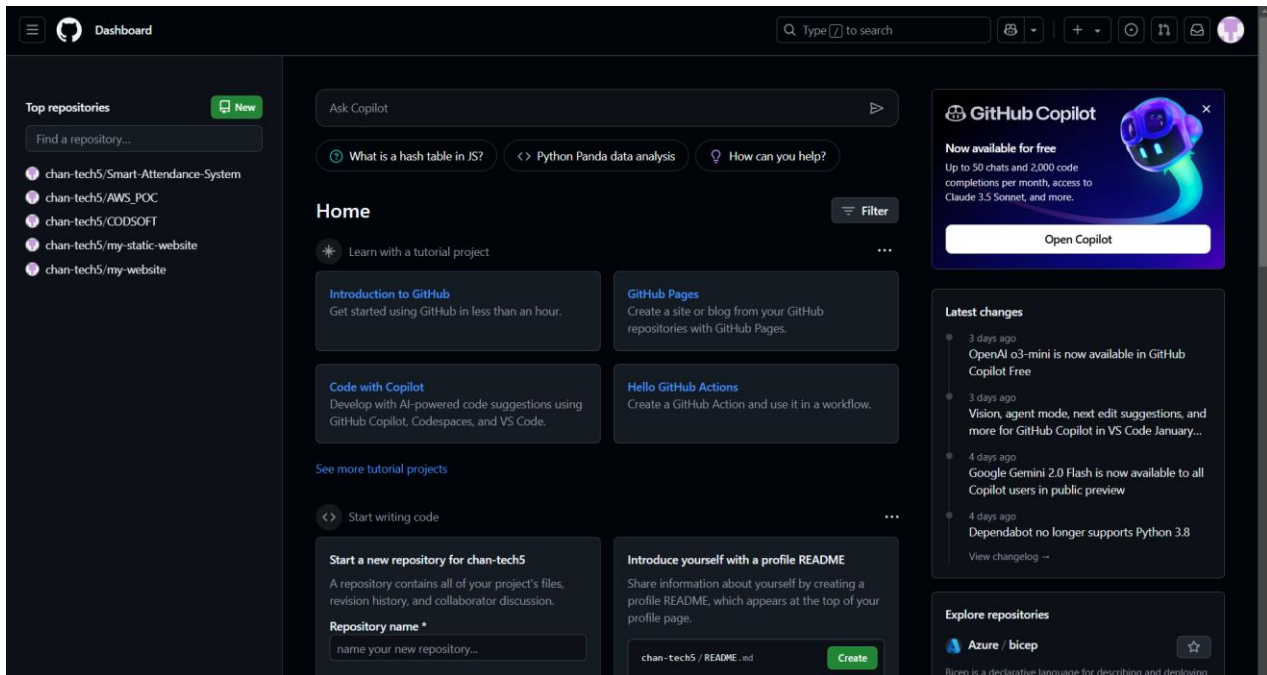
- **Cost-Effective** – Free for public repositories, making it an excellent choice for students and developers.
  - **Built-in Version Control** – Seamlessly integrates with GitHub, allowing easy updates and collaborative development.
  - **Increased Visibility** – Ideal for showcasing portfolios, projects, and documentation.
  - **User-Friendly** – Requires minimal setup compared to other hosting solutions.
  - **Custom Domains** – Supports custom domain configuration for a more professional online presence.
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# Step-by-Step Overview

## Step 1:

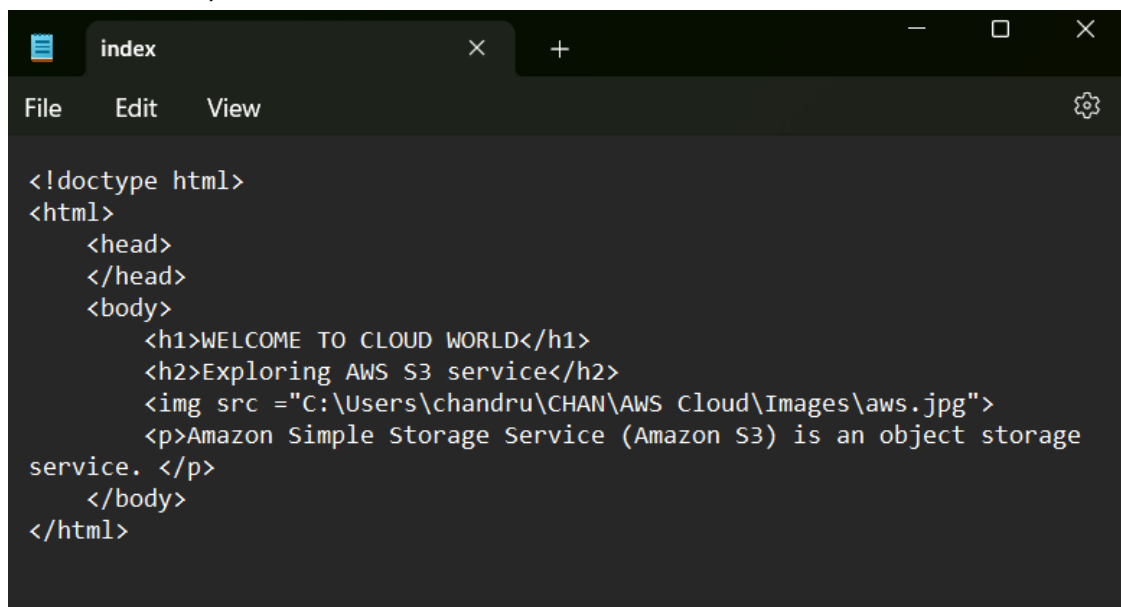
### Create a New Repository:

- Log in to GitHub and click the green **"New"** button on the top-right of your homepage.
- Enter a repository name (e.g., my-static-website).
- Keep the default settings and click **"Create repository"**.



## Step 2:

- Create a local folder (e.g., my-static-website) to store your website files.
- Inside the folder, create an index.html file with basic HTML content.



### Step 3:

- Open Command Prompt or Terminal.
- Use the cd command to navigate to your project folder.

```
C:\Users\chandru>cd C:\Users\chandru\Downloads\poc7\my-static-website
```

### Step 4:

Run the following command to initialize Git in your project folder:

**git init**

```
C:\Users\chandru\Downloads\poc7\my-static-website>git init  
Initialized empty Git repository in C:/Users/chandru/Downloads/poc7/my-static-website/.git/
```

### Step 5:

Stage your files for commit:

**git add .**

```
C:\Users\chandru\Downloads\poc7\my-static-website>git add .
```

### Step 6:

Save the changes with a commit message:

**git commit -m "Initial commit"**

```
C:\Users\chandru\Downloads\poc7\my-static-website>git commit -m "Initial commit"  
[master (root-commit) 06e3d5e] Initial commit  
1 file changed, 11 insertions(+)  
create mode 100644 index.html
```

### Step 7:

- Go to your GitHub repository and copy the repository URL.
- In your terminal, link your local project to the GitHub repository:  
**git remote add origin <your-repository-url>**

```
C:\Users\chandru\Downloads\poc7\my-static-website>git remote add origin https://github.com/chan-tech5/my-static-website.git
```

## Step 8:

Upload your project files to GitHub:

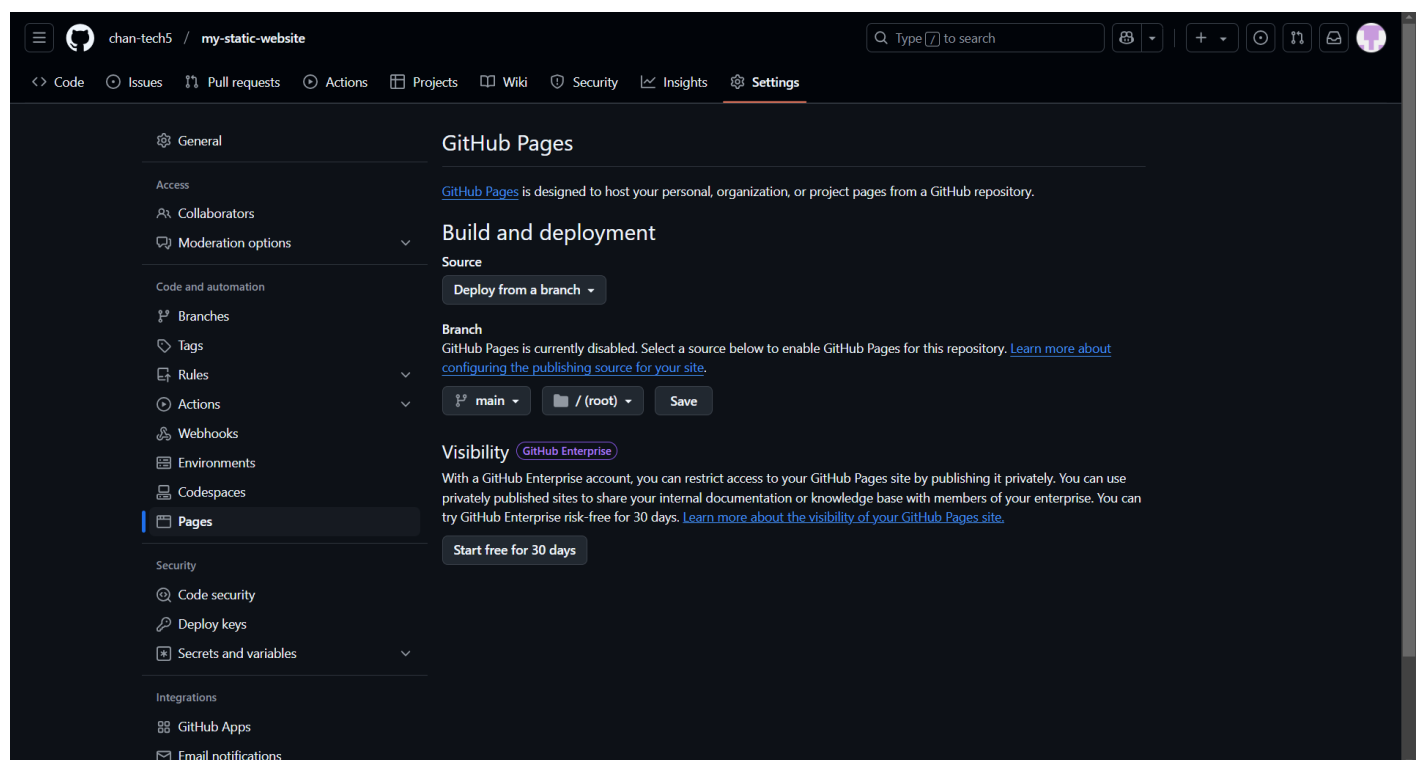
```
C:\Users\chandru\Downloads\poc7\my-static-website>git branch -M main

C:\Users\chandru\Downloads\poc7\my-static-website>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 429 bytes | 429.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/chan-tech5/my-static-website.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

## Step 9:

### Enable GitHub Pages

- Go to your repository on GitHub.
- Click on the **Settings** tab.
- Scroll down to the **Pages** section (under "Code and automation").
- Under **Source**, select:
  - **Branch:** main
  - **Folder:** / (root)
- Click **Save**.



## Step 10:

### Access Your Website

- Wait a few minutes for deployment.
- Visit your website at:

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



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## Outcome

By completing this Proof of Concept (PoC), you will:

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