**Placement Empowerment Program**

***Cloud Computing and DevOps Centre***

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*8. Deploy your static website using Github Pages: Host your local Git repository’s static website directly using Github pages.*

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Name: Jeslin Anista J

Department : EEE



**Introduction and Overview**

In this (PoC), we will explore 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.

**Objective**

1. Learn the fundamentals of GitHub Pages and its deployment process.

2. Understand the importance of static website hosting and its use cases.

3. Gain hands-on experience in using Git and GitHub for project versioning and hosting.

4. Successfully publish a static website and make it publicly accessible.

**Importance of Hosting with GitHub Pages**

**1. Cost-effective:** Free for public repositories, making it accessible for students and developers.

**2. Version Control:** Seamlessly integrates with GitHub, enabling easy updates and collaboration.

**3. Visibility:** A great way to showcase personal portfolios, projects, or documentation.

**4. Ease of Use:** Minimal setup required compared to other hosting platforms.

**5. Custom Domains:** Option to configure custom domains, enhancing the professional appeal of your website.

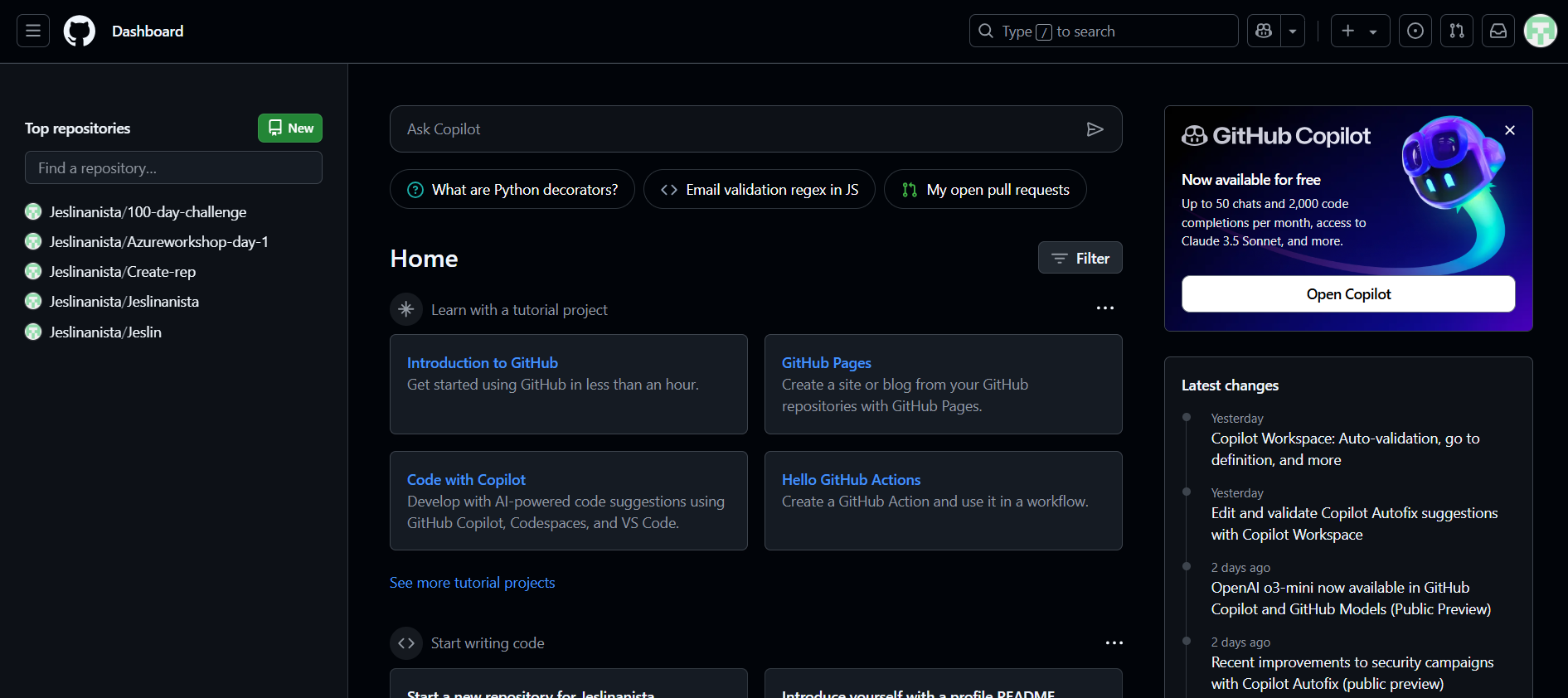
**Step-by-Step Overview**

Step1:

Create a New Repository: Once you're logged in, click the green "**New**" button on the topright 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".**

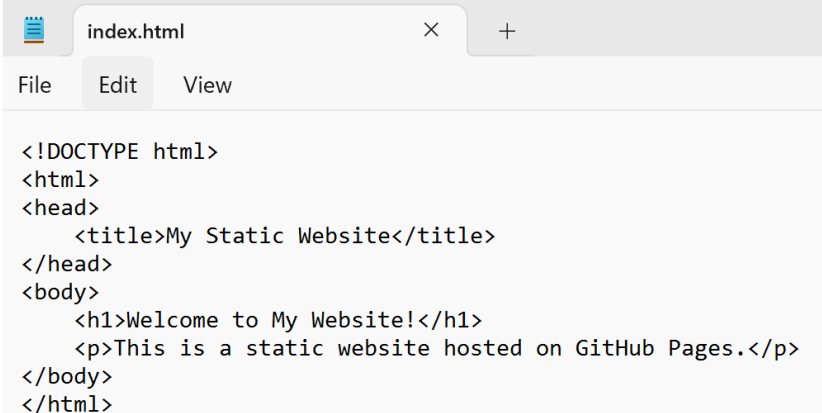


Step 2 :

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**.

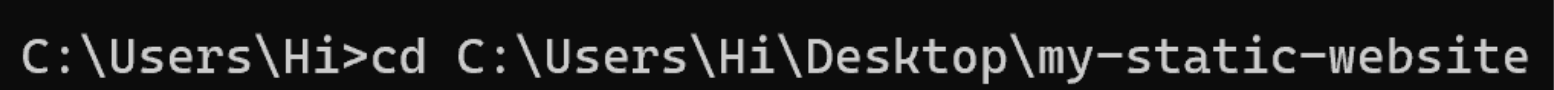
Here’s a simple example of what to put in your index.html:



Step 3 :

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

Use the cd command to navigate.



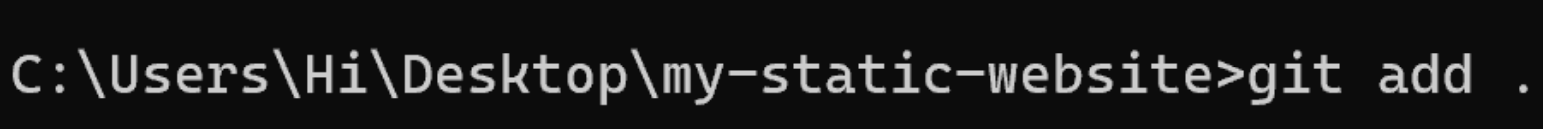
Step 4 :

Initialize a Git repository by running:



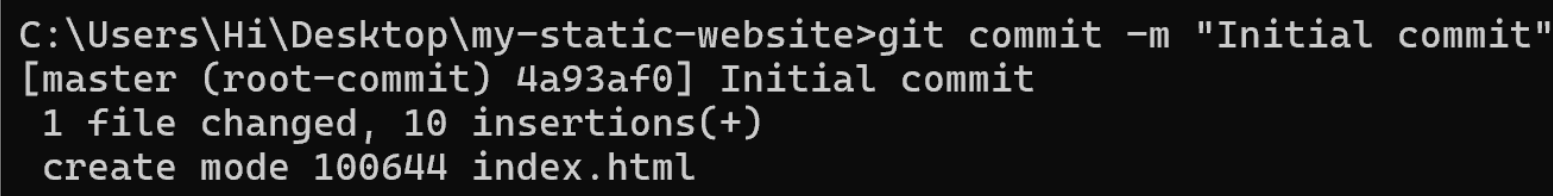
Step 5 :

Add your website files to the repository:



Step 6 :

Save the changes in Git with a commit message:



Step 7 :

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

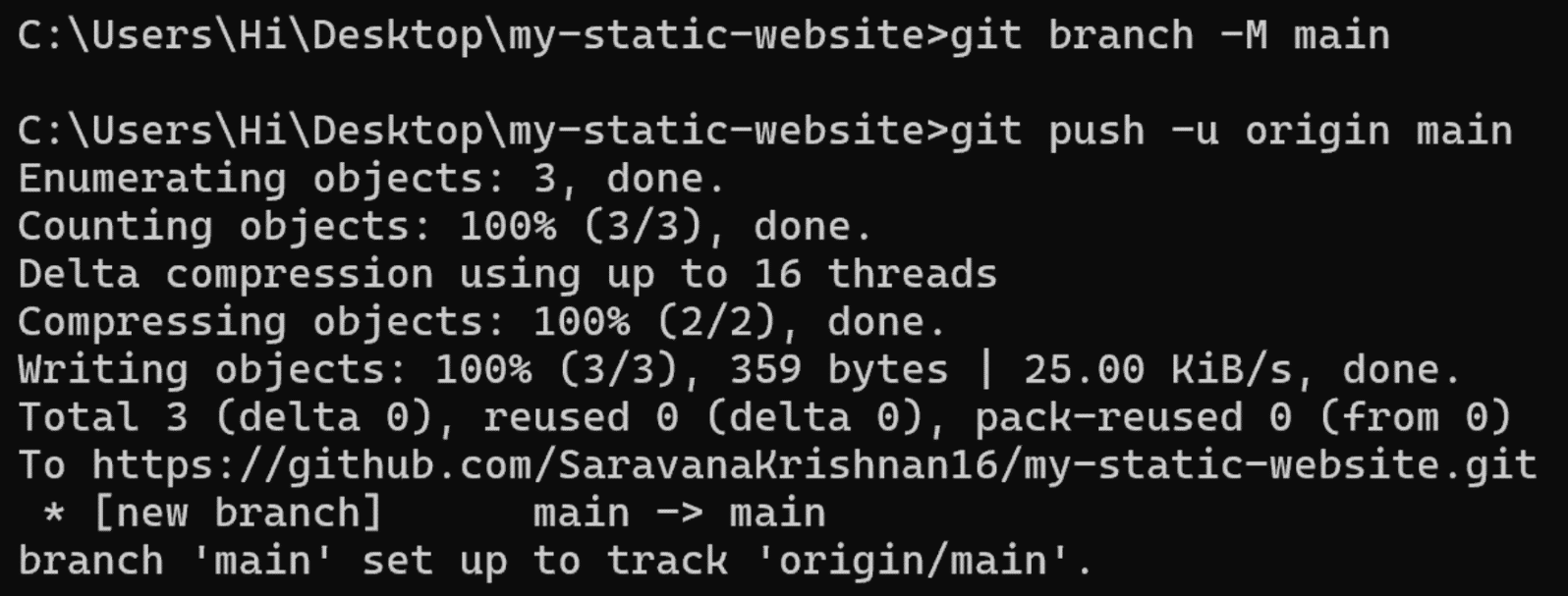
Copy the **repository URL:**

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



Step 8 :

Push your files to GitHub:



Step 9 :

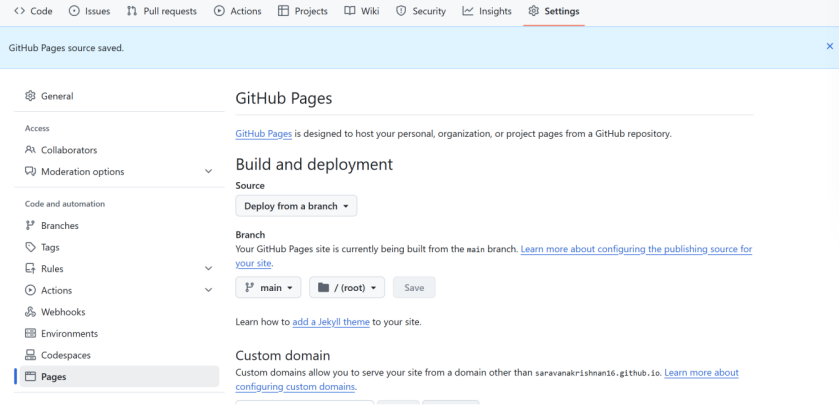
1. Go to your repository on GitHub.

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: o Branch: main o Folder: / (root)

5. Click Save.



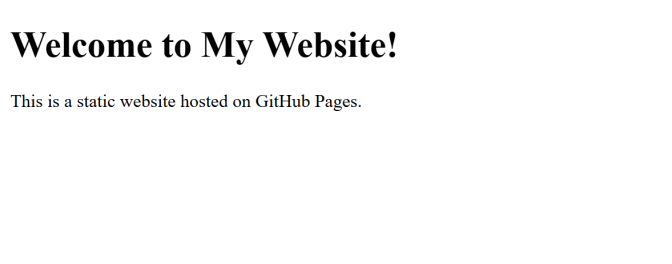
Step10:

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>



**Expected 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.