**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.

# Overview

This project demonstrates how to deploy a static website using GitHub Pages. Starting with the basics of setting up a GitHub repository, we’ll explore each step required to host a functional static website. This includes initializing a Git repository, pushing files to GitHub, and configuring GitHub Pages for deployment.

**Key Features of GitHub Pages**:

Free hosting for public repositories.

Support for static files (HTML, CSS, JavaScript).

Easy integration with version control through Git.

# Objectives

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.

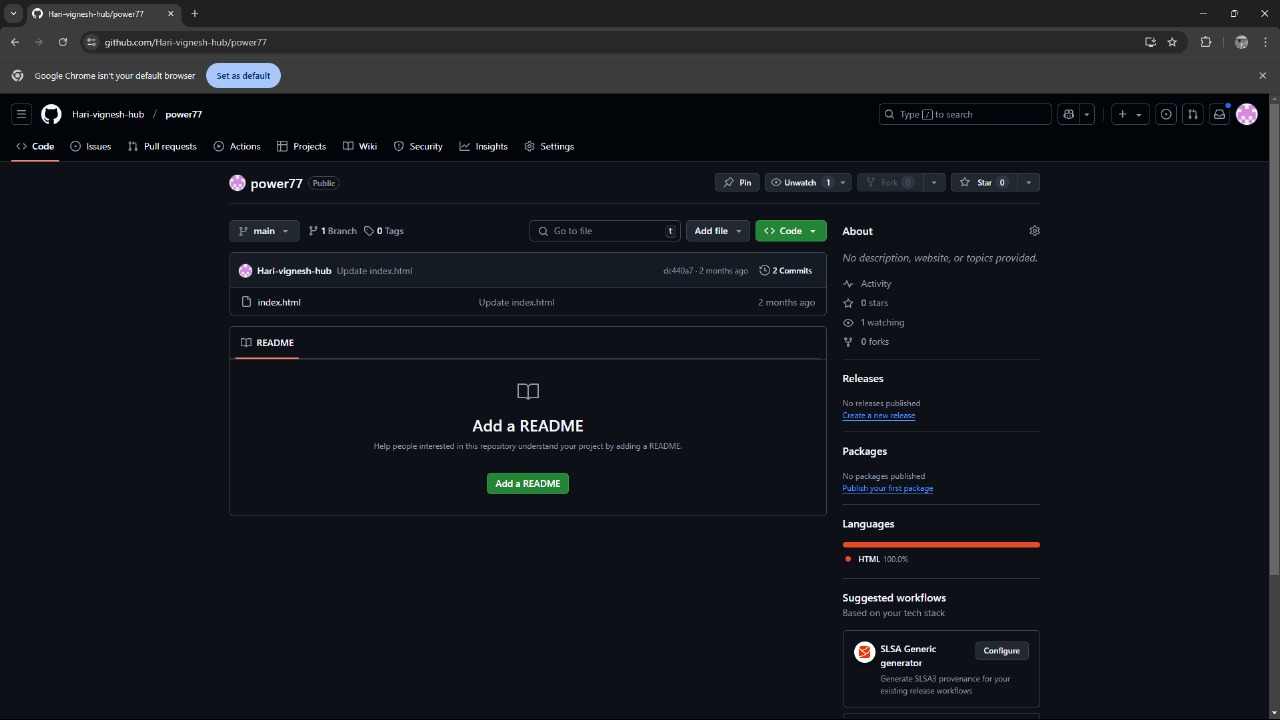
# Step-by-Step Overview Step

1:

**Create a New Repository**:

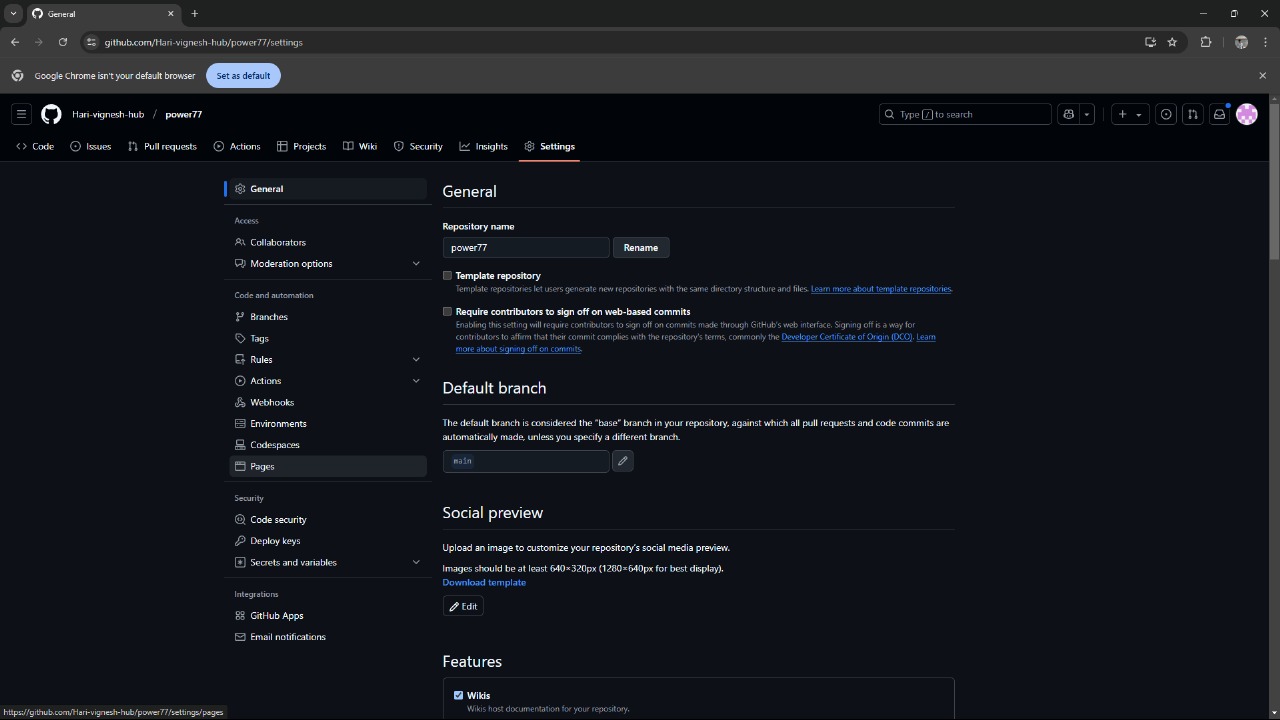
Open a repository that you have already created or create

a repository and upload a html file as (eg save as:index.html)



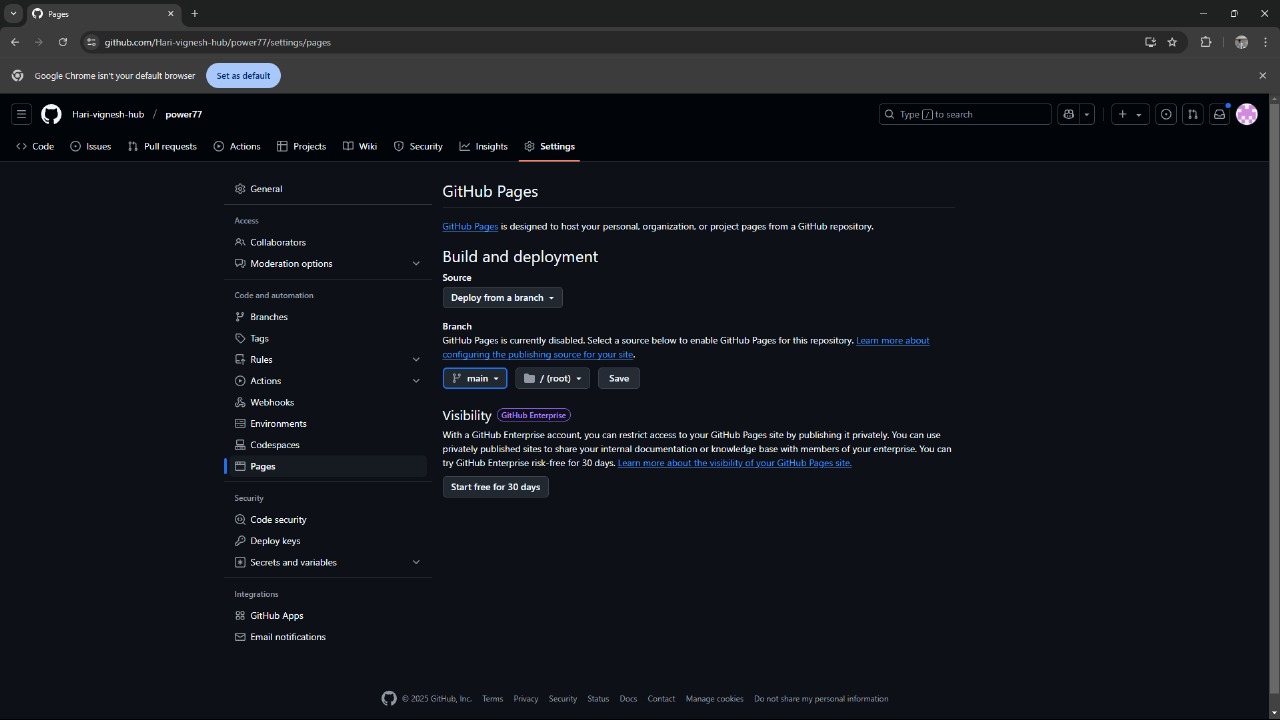
Step 2:

Go to Setting



Step 3:

Go to pages and make the branch to main and click save

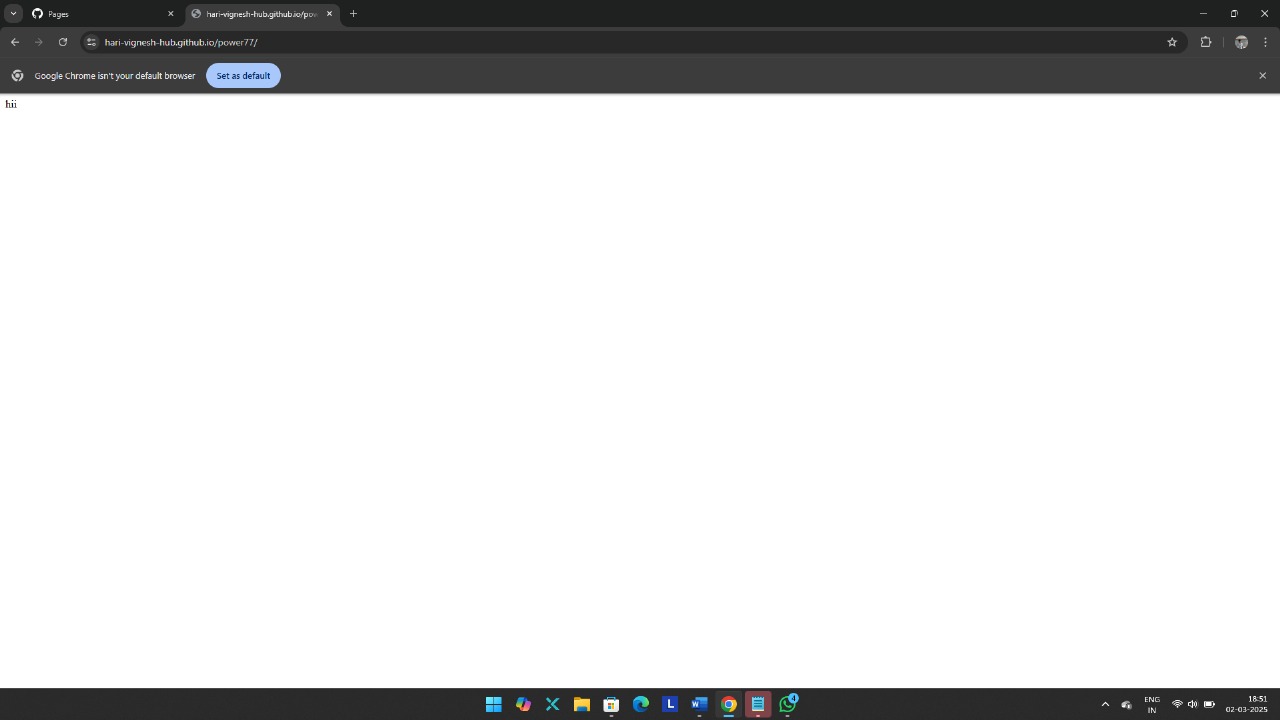


Step 4:

Wait for few minutes and link will come in the format of Visit your website at: https://<your-username>.github.io/<your-repository>

Step 5:

Visit that link then your website will be hosted



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.