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GROUP OF INSTITUTIONS
OMR, CHENNAI - 119



Placement Empowerment Program
Cloud Computing and DevOps Centre

**To set up a local Git repository and connect it with a
remote GitHub repository**

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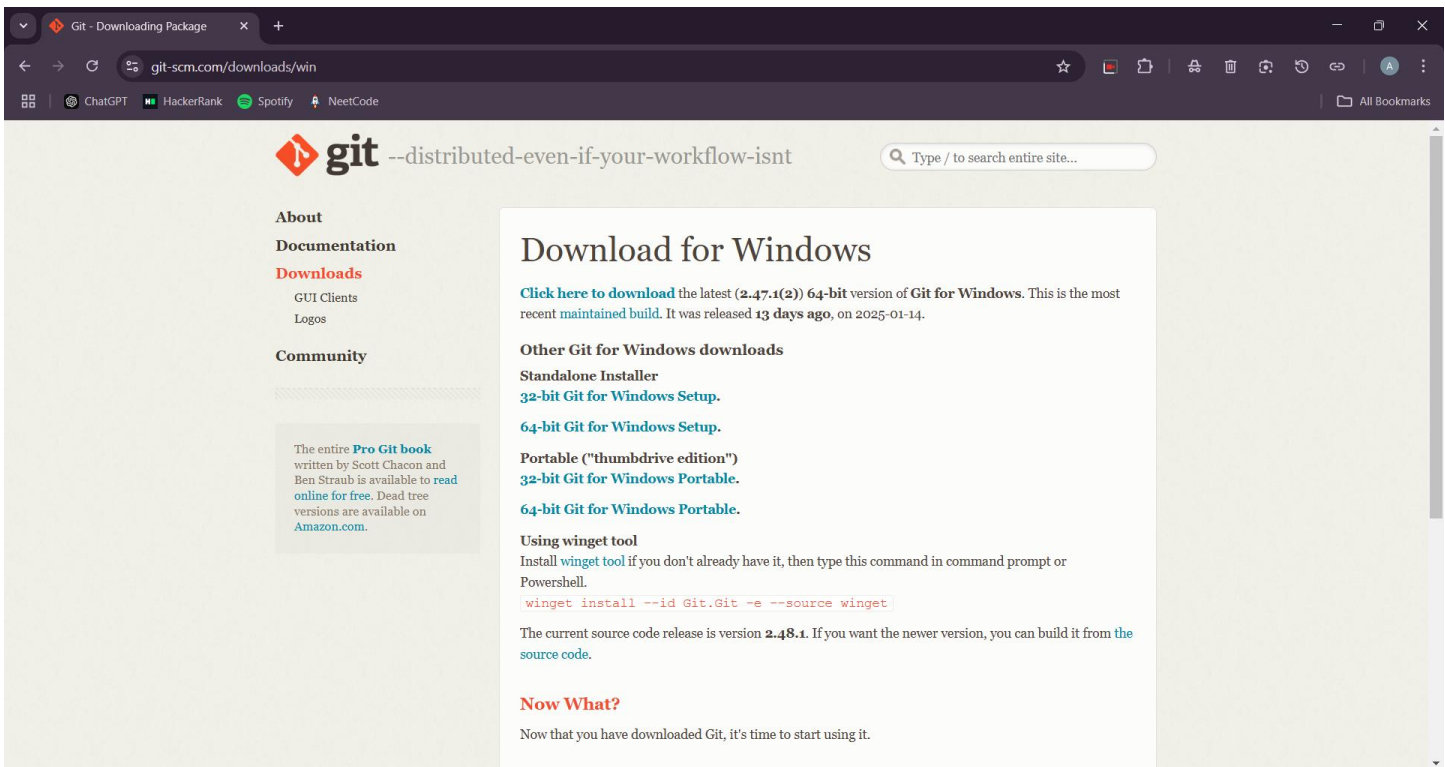


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remote GitHub repository:**

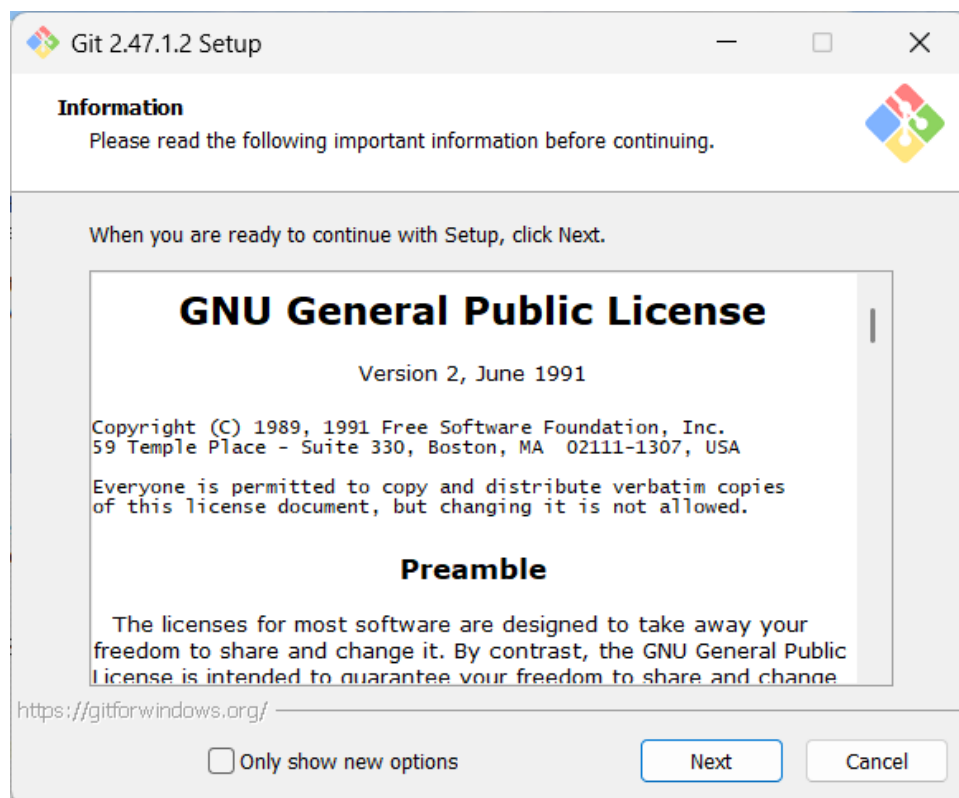
Step 1: Install Git

- 1. Download Git:**

a. Visit the official Git website: <https://git-scm.com/>.

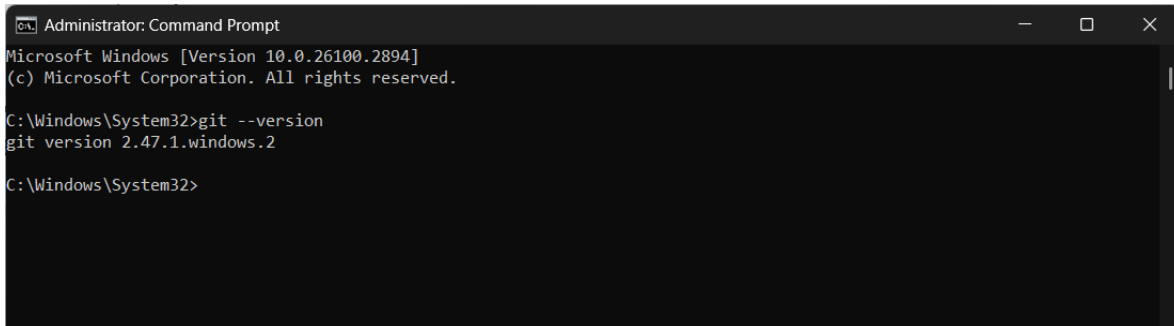


b. Download and install Git by following the instructions for your operating system.



2. **Verify Git Installation:**

- a. Open a terminal or command prompt and type: `git --version`
- b. You should see the installed Git version.



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.26100.2894]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>git --version
git version 2.47.1.windows.2

C:\Windows\System32>
```

Step 2: Set Up a Local Git Repository

1. **Create or Navigate to Your Project Directory:**
 - a. Open a terminal/command prompt and navigate to the folder where your static website is located, or create a new folder for your project:
`mkdir my-static-website`
`cd my-static-website`
2. **Initialize a Git Repository:**
 - a. In your project directory, initialize a local Git repository: `git init`
3. **Add Your Files to Version Control:**

a. Use the `git add` command to stage files for the first commit: `git add .`

4. **Commit the Changes:**

a. After staging, commit your changes: `git commit -m "Initial commit: Set up static website"`

Step 3: Create a GitHub Repository

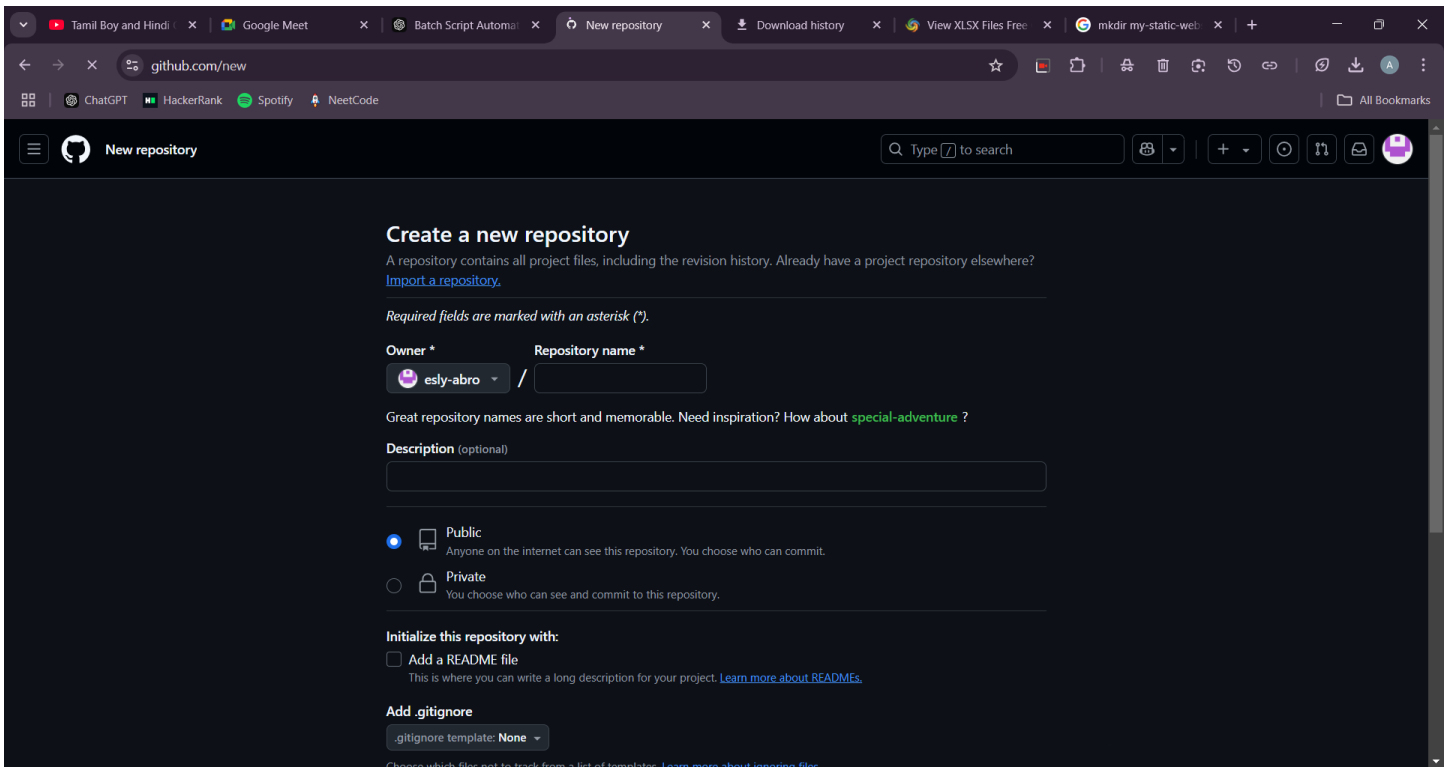
1. **Create a New GitHub Repository:**

a. Go to GitHub (<https://github.com/>) and log in.

b. Click the **+** icon in the top-right corner and select **New repository**.

c. Give your repository a name (e.g., `my-static-website`), add a description (optional), and choose whether it's public or private.

d. Click **Create repository**.

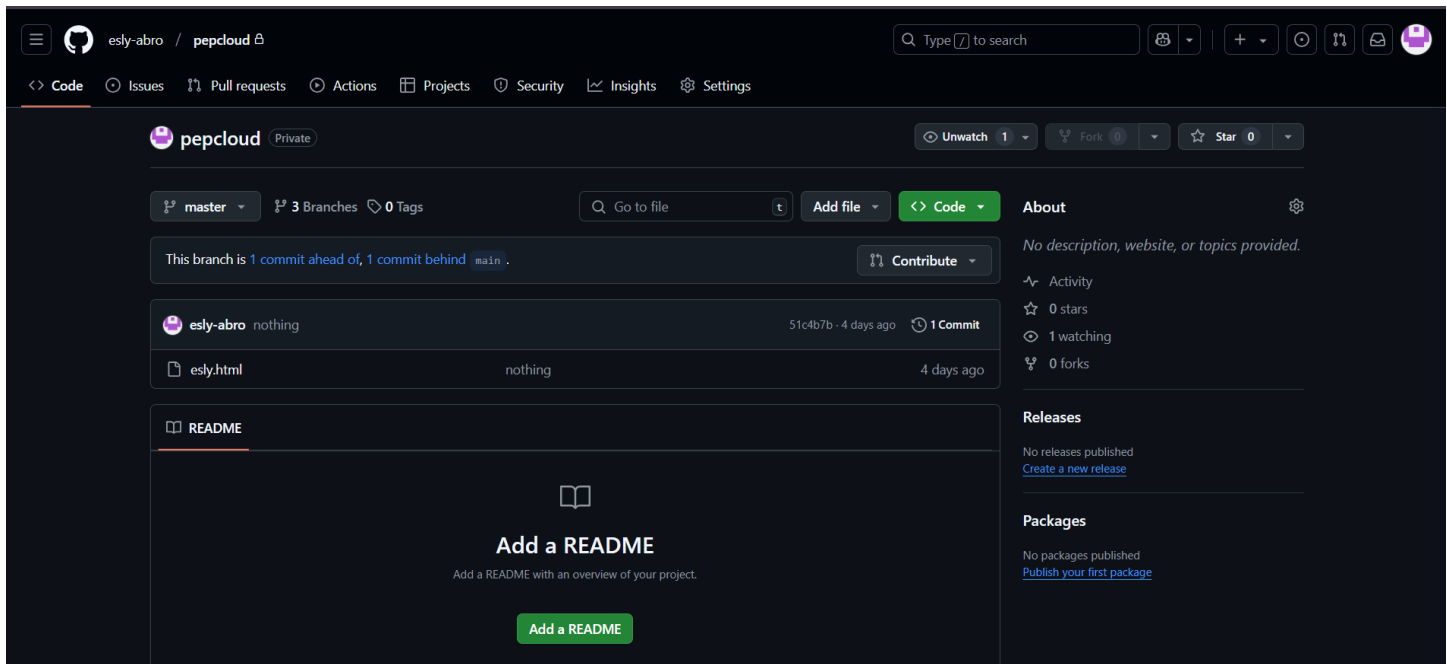


2. **Connect the Local Repository with GitHub:**
 - a. Copy the GitHub repository URL (SSH or HTTPS).
 - b. In your terminal/command prompt, link the local repository to GitHub: `git remote add origin`
<https://github.com/yourusername/my-static-website.git>
3. **Push Local Changes to GitHub:**
 - a. Push the changes from your local repository to GitHub: `git push -u origin master`

Step 4: Verify Your Repository on GitHub

1. Go to Your GitHub Repository:

- a. Visit your repository on GitHub, and you should see your static website files.



Summary of Git Commands

- `git init`: Initializes a local Git repository.
- `git add .`: Stages all files for a commit.
- `git commit -m "message"`: Commits changes with a message.
- `git remote add origin <url>`: Connects the local repository with a remote one (GitHub).
- `git push -u origin master`: Pushes changes to GitHub.