

SET UP A LOCAL GIT REPOSITORY

OBJECTIVE:

Initialize a Git repository locally and version control your static website.

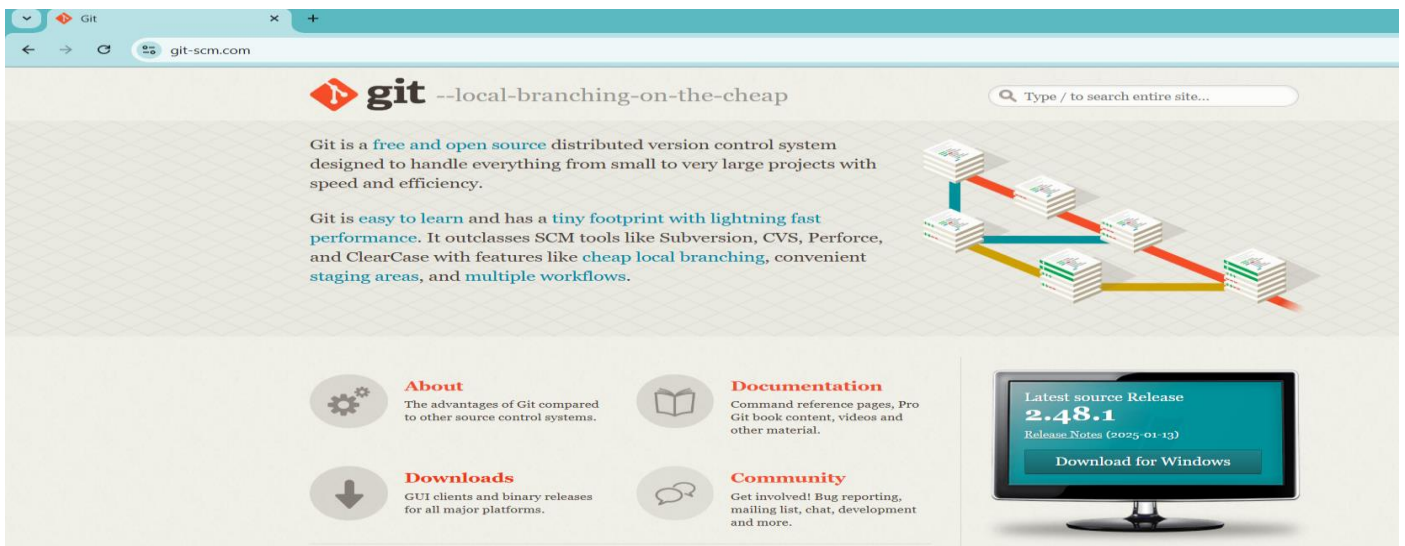
INTRODUCTION:

In this POC, we'll initialize a local Git repository to control your static website. By doing so, you'll be able to track changes to your project files, experiment with new features in a controlled way, and easily share your project with others if needed. Setting up a Git repository is a step maintaining a structured and reliable workflow, especially for developers and teams working on collaborative projects.

STEP BY STEP OVERVIEW:

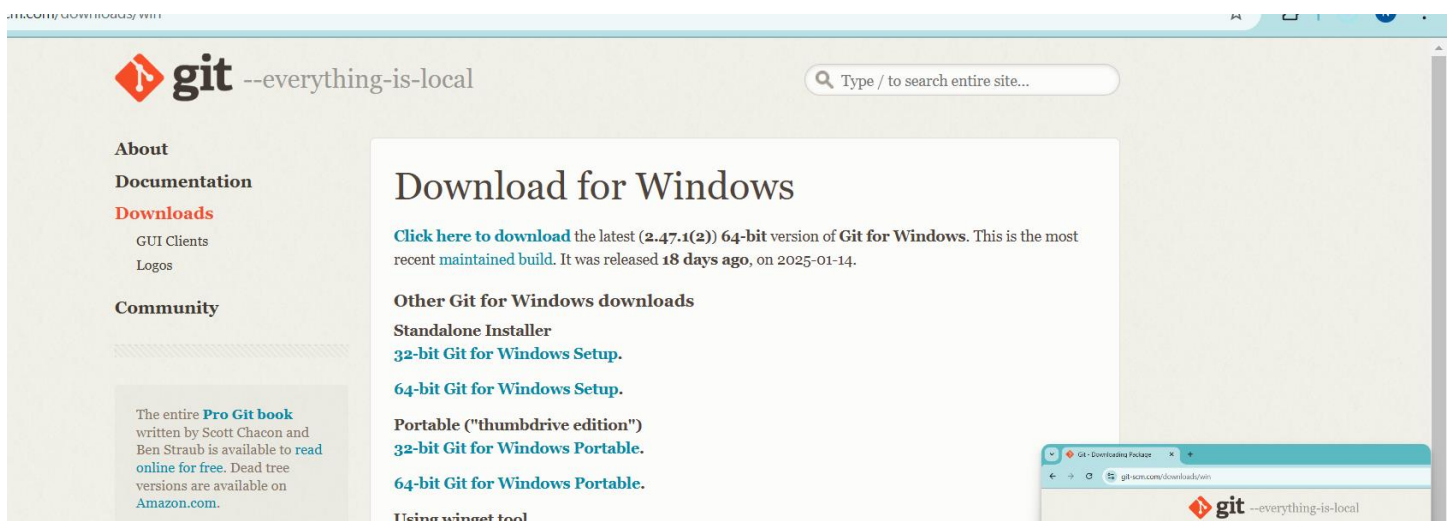
Step 1: INSTALLING GIT

- Open your browser and search for 'Git' and click on the 'Downloads' option on the website.



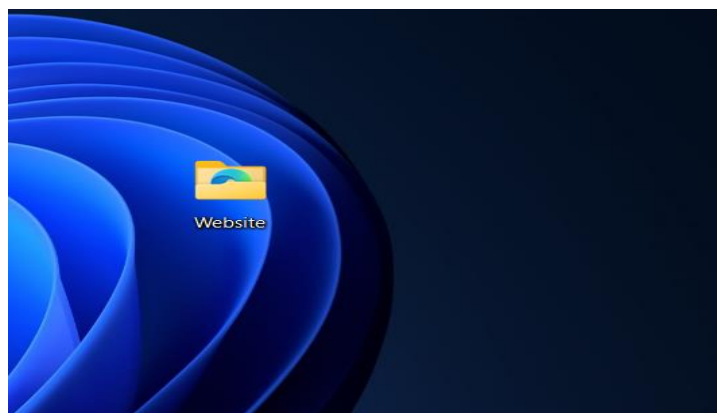
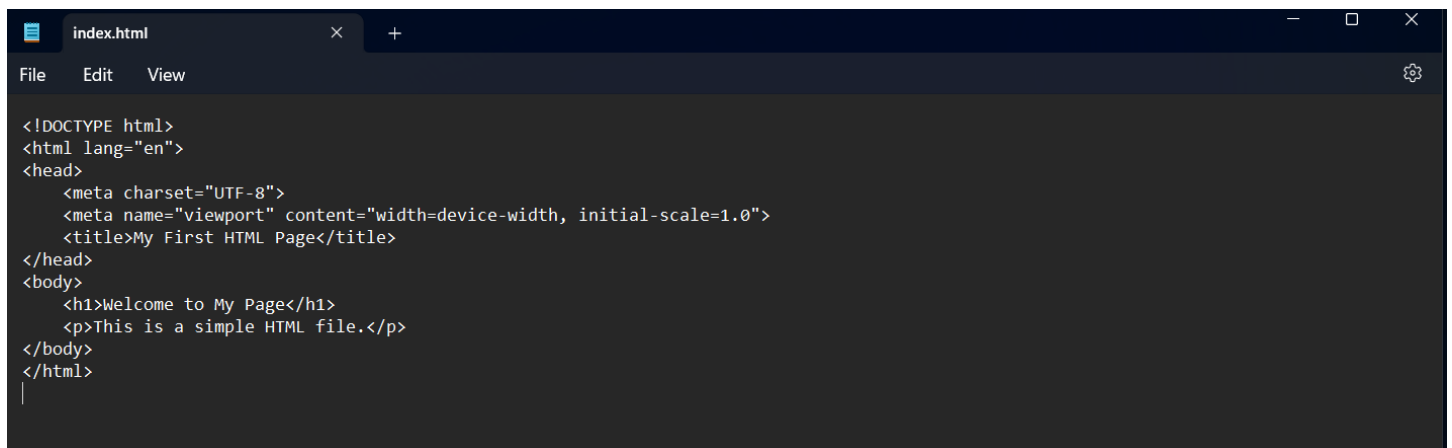
- Click on 'Windows' option on the download page and follow the installation wizard.





Step 3: CREATE A HTML FILE.

- In your desktop create a folder called 'Website' and add a simple html file.



Step 4: INITIALZING GIT

- Open you command prompt and set the path to the created folder.

```
Arulldhas@LAPTOP-3NEV9UI5 MINGW64 ~  
$ cd desktop  
  
Arulldhas@LAPTOP-3NEV9UI5 MINGW64 ~/desktop  
$ cd website
```

- Now initialize the Git by typing 'git init'

```
Arulldhas@LAPTOP-3NEV9UI5 MINGW64 ~/desktop/Website  
$ git init  
Initialized empty Git repository in C:/Users/Arulldhas/Desktop/Website/.git/
```

- To track the website files, type 'git add.'

```
Arulldhas@LAPTOP-3NEV9UI5 MINGW64 ~/desktop/Website (master)  
$ git add .
```

- Set up your Name and Email globally because Git doesn't know who is making the commit since we have not configured it yet.

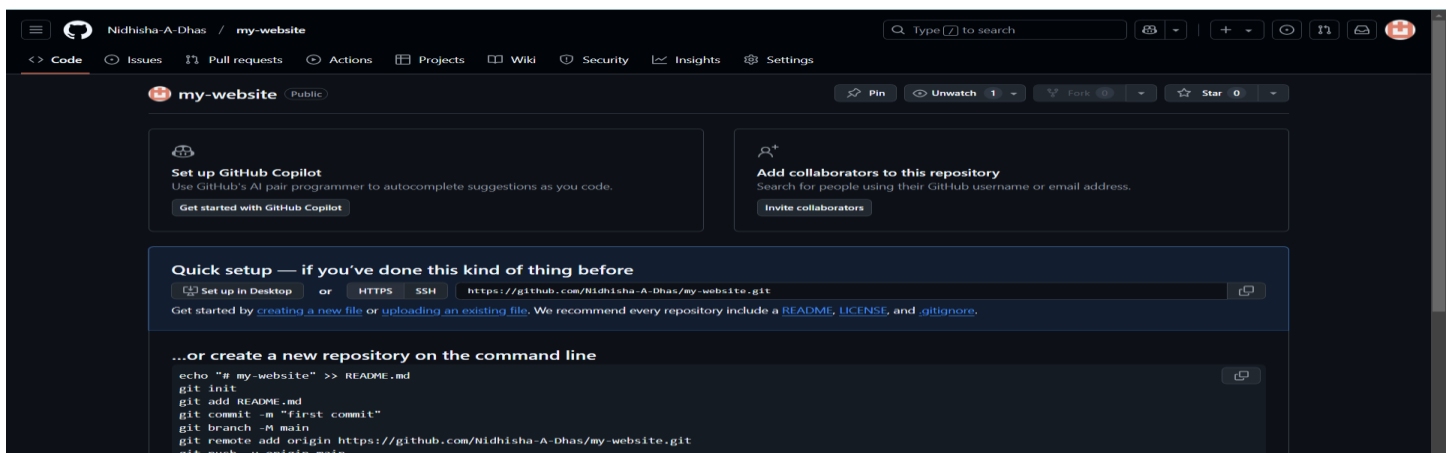
```
Arulldhas@LAPTOP-3NEV9UI5 MINGW64 ~/desktop/Website (master)  
$ git config --global user.name "Nidhisha A Dhas"  
  
Arulldhas@LAPTOP-3NEV9UI5 MINGW64 ~/desktop/Website (master)  
$ git config --global user.email "nidhidhas06@gmail.com"
```

- To commit the changes, type 'git commit -m Initial commit of my static Website'.

```
Arulldhas@LAPTOP-3NEV9UI5 MINGW64 ~/desktop/Website (master)  
$ git commit -m "Initial commit of my static Website"  
[master (root-commit) e12felc] Initial commit of my static Website  
1 file changed, 12 insertions(+)  
create mode 100644 index.html
```

Step 5: CREATE A NEW REPOSITORY

- Login into your Github and create a new repository.



Step 6: PUSH FILE INTO REPOSITORY

- Go back to the command prompt and type 'git remote add origin <https://github.com/yourusername/my-website.git>'

```
Arulldhas@LAPTOP-3NEV9UI5 MINGW64 ~/desktop/Website (master)
$ git remote add origin https://github.com/Nidhisha-A-Dhas/my-website.git
```

- Now, type 'git branch -M' to rename the current branch to main.

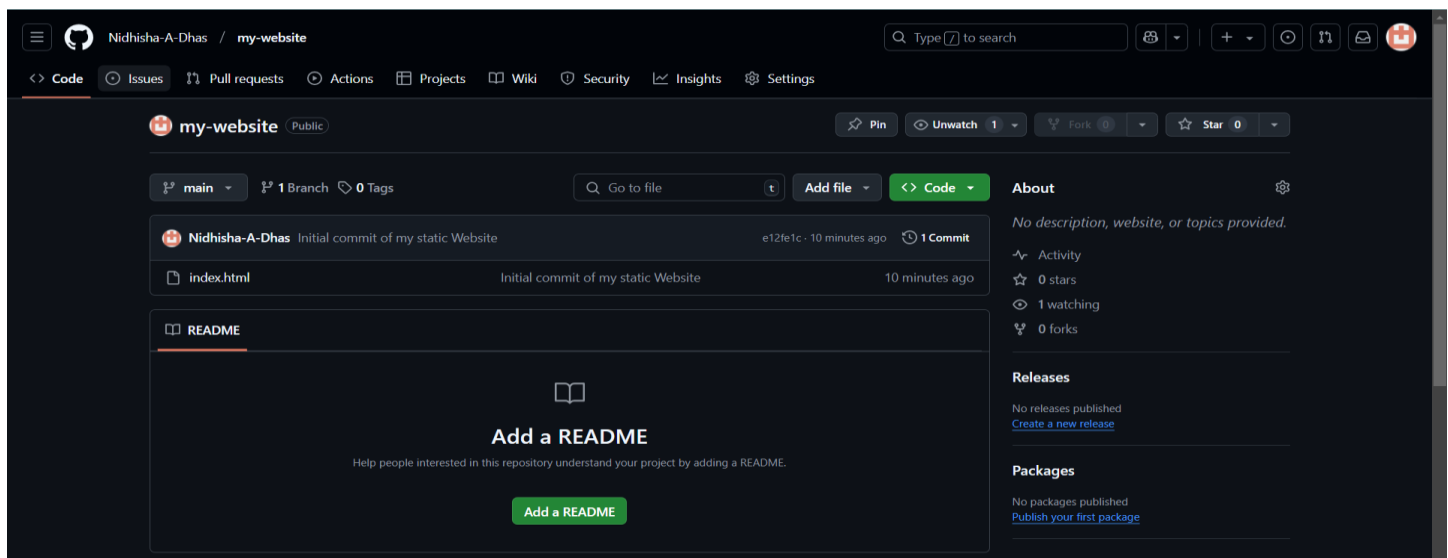
```
Arulldhas@LAPTOP-3NEV9UI5 MINGW64 ~/desktop/Website (master)
$ git branch -M main
```

- Give the command 'push -u origin main' to push the local main branch to the remote origin repository.

```
Arulldhas@LAPTOP-3NEV9UI5 MINGW64 ~/desktop/Website (main)
$ git push -u origin main
info: please complete authentication in your browser...
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), 434 bytes | 434.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Nidhisha-A-Dhas/my-website.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

Step 6: VERIFY FILES ON GITHUB

- Go to your created repository and you will see that the file 'index.html' will be uploaded in it.



- Hence, the file has been uploaded successfully.

CONCLUSION:

In this POC, we have learnt

- To successfully initialize a Git repository in your local Git repository.
- Track the changes made to the website files.
- Understand the basic Git commands.
- Commit changes locally with a commit message.
- Gain hands-on experience with Git that helps to manage and track the file changes.