



**S. B. JAIN INSTITUTE OF TECHNOLOGY,
MANAGEMENT & RESEARCH, NAGPUR.**

Practical No. 0 (Pre-Lab)

Aim: Understand & create Github Repository account and add any HTML/CSS template website in it.

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AIM: Understand & create Github Repository account and add any HTML template website in it.

OBJECTIVE/EXPECTED LEARNING OUTCOME:

The objectives and expected learning outcome of this practical are:

- To know the working of Github platform.
- To know how to create account on Github platform.
- Able to add HTML template on Github repository.

THEORY:

What is Github?

GitHub is a code hosting platform for collaboration and version control.

GitHub lets you (and others) work together on projects.

Repository

- A GitHub repository can be used to store a development project.
- It can contain folders and any type of files (HTML, CSS, JavaScript, Documents, Data, Images).
- A GitHub repository should also include a licence file and a README file about the project.
- A GitHub repository can also be used to store ideas, or any resources that you want to share.

Branch

- A GitHub branch is used to work with different versions of a repository at the same time.
- By default a repository has a master branch (a production branch).
- Any other branch is a copy of the master branch (as it was at a point in time).
- New Branches are for bug fixes and feature work separate from the master branch. When changes are ready, they can be merged into the master branch. If you make changes to the master branch while working on a new branch, these updates can be pulled in.

Commits

- At GitHub, changes are called commits.
- Each commit (change) has a description explaining why a change was made.

Pull Requests

- Pull Requests are the heart of GitHub collaboration.
- With a pull request you are proposing that your changes should be merged (pulled in) with the master.
- Pull requests show content differences, changes, additions, and subtractions in colors (green and red).
- As soon as you have a commit, you can open a pull request and start a discussion, even before the code is finished.

Steps to install Github.

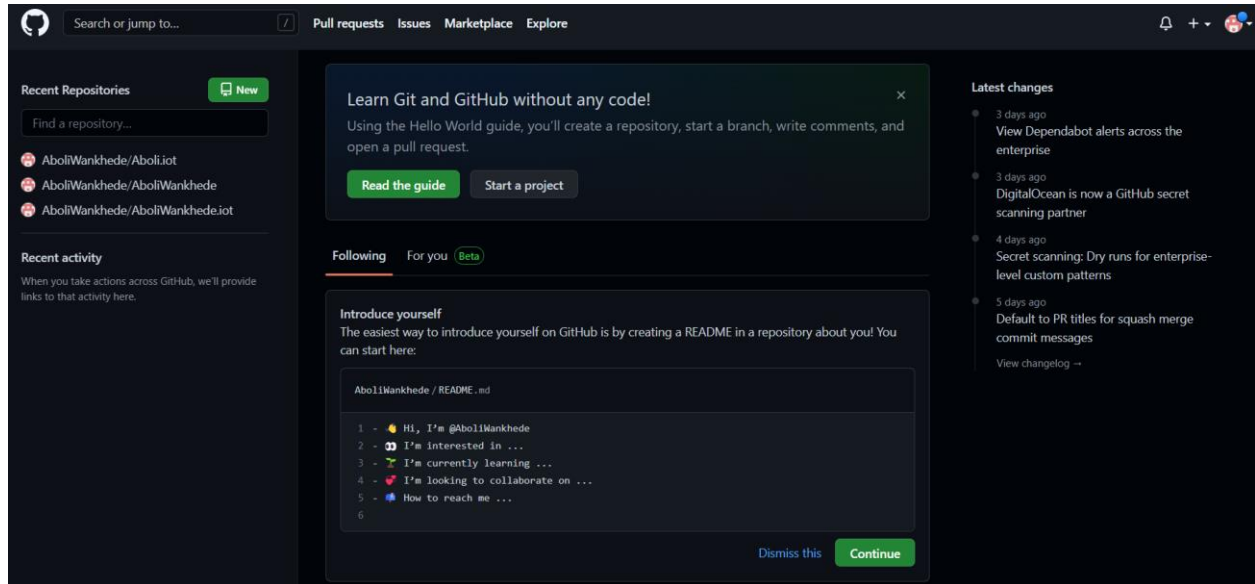
1. Visit the download page for GitHub Desktop.
2. Click Download for Window.
3. In your computer's Downloads folder, double-click the GitHub Desktop zip file.
4. After the file has been unzipped, double-click GitHub Desktop.
5. GitHub Desktop will launch after installation is complete.

How to create account on Github?

Open <https://github.com> in a web browser, and then select Sign up.

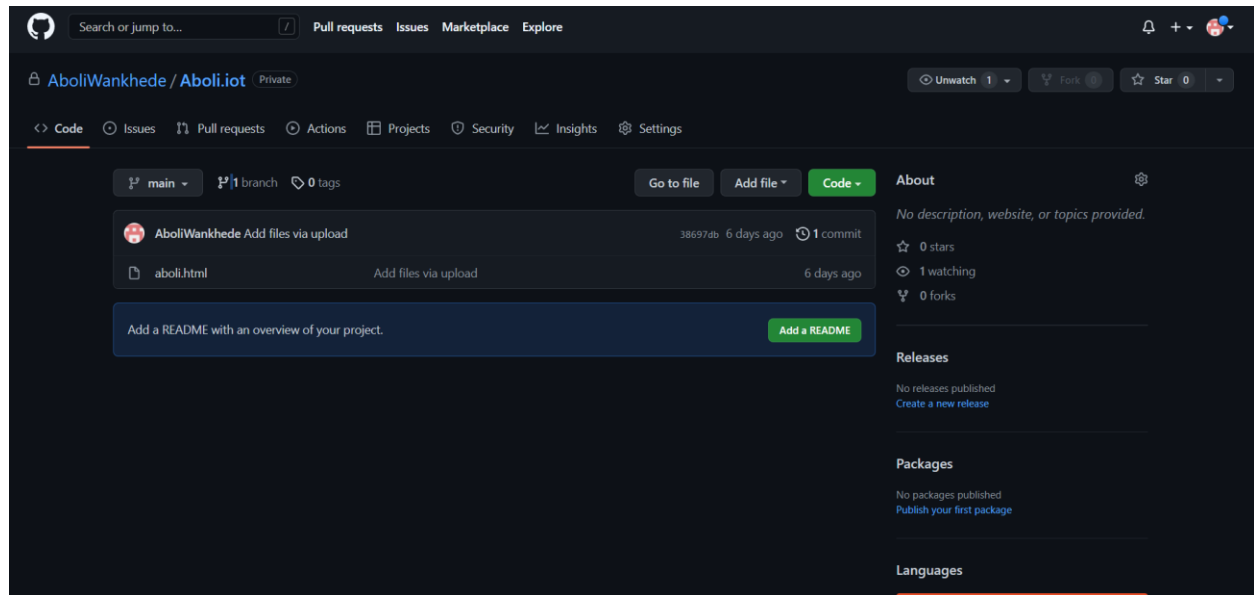
1. Enter your email address.
2. Create a password for your new GitHub account, and Enter a username, too. ...
3. Verify your account by solving a puzzle. ...
4. After you verify your account, select the Create account button.

Screenshots of Github installation:



Web Development Lab (ESC107P)

Screenshots of adding files into repository:



CONCLUSION: GitHub is a code hosting platform for version control and collaboration. It lets you and others work together on projects from anywhere.

DISCUSSION QUESTIONS:

1. What is Github?

Ans.:- Github is a web-based interface that uses [Git](#), the open source version control software that lets multiple people make separate changes to web pages at the same time. As Carpenter notes, because it allows for real-time collaboration, GitHub encourages teams to work together to build and edit their site content.

2. Define repository. How can you create repository on Github?

Ans.:- Git is an open-source software used for tracking project changes and revisions across different teams. [Git](#) saves different versions of projects in a folder known as a Git repository.

There are two ways of obtaining a Git repository:

1. Turning an existing directory into a Git repository (initializing).
2. Cloning a Git repository from an existing project.

3. Explain pull request?

Ans.:- A pull request is a method of submitting contributions to an [open development](#) project. It is often the preferred way of submitting contributions to a project using a distributed [version control system](#) (DVCS) such as [Git](#). A pull request occurs when a developer asks for changes committed to an external repository to be considered for inclusion in a project's main repository.

4. How much space do we get on Github?

Ans.:- **Every account using Git Large File Storage receives 1 GB of free storage and 1 GB a month of free bandwidth. If the bandwidth and storage quotas are not enough, you can choose to purchase an additional quota for Git LFS.**

5. What are the benefits of Github over other platforms?

Ans.:- The main benefits of using GitHub are;

1. It makes it easy to contribute to your open source projects

2. Documentation
3. Showcase your work
4. Markdown
5. GitHub is a repository
6. Track changes in your code across versions
7. Integration options

REFERENCE:

- <https://github.com/simplilearn-github>
- <https://www.youtube.com/watch?v=iv8rSLsi1xo>.
- <https://www.codewithharry.com/videos/git-tut-beginners-hindi-1/>