

"Heaven's Light is Our Guide"



Rajshahi University of Engineering & Technology
Department of Computer Science & Engineering

Lab Report – 01

Course Code: CSE-3206

Course Title: Software Engineering Sessional

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Task: Github repository creation and pushing code form local Machine.

Introduction:

This lab aims to provide a clear understanding of how to install and configure Git, create a local repository, and upload it to a GitHub repository. It covers the foundational steps of setting up Git, creating and managing repositories, and utilizing Git commands to track, commit and push changes effectively to GitHub.

Git: Git is a free and open-source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

GitHub: GitHub is a platform that allows developers to create, store, manage, and share their code. It is a popular tool for collaboration on coding projects and is often used by students to work on open-source projects.

Requirements:

1. Git
2. VsCode
3. GitHub Account

Procedure:

Here is the procedure to do the task:

Step-1: Installa, on of Git

1. Download Git
2. Install Git

Step 2: Create a GitHub Repository

1. Go to [GitHub](https://github.com) and log in.
2. Click the “+” in the top-right corner, then select ****New repository****.
3. Fill in the repository name, description (optional), and set visibility (Public/Private).
4. Check ****Add a README file**** (optional).
5. Click ****Create repository****.


Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk ().*


Owner *

Repository name *

 R4ID3NZ4P


 /

cse3206-lab-01


 cse3206-lab-01 is available.

Great repository names are short and memorable. Need inspiration? How about [laughing-train](#) ?

Description (optional)

☒  Public

Anyone on the internet can see this repository. You choose who can commit.

☐  Private

You choose who can see and commit to this repository.

Initialize this repository with:

☒ Add a README file

This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore


.gitignore template: **None**


Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

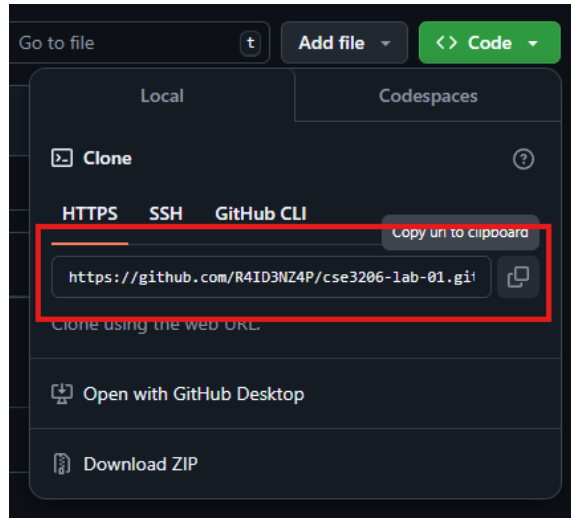
License: **None**

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

This will set  **main** as the default branch. Change the default name in your [settings](#).

 You are creating a public repository in your personal account.

Create repository



Step 3: Initialize Git Locally

1. Open a terminal on your local machine.
2. Navigate to your project folder:
cd /path/to/your/project
3. Initialize Git in your project folder:
git init

Step 4: Connect Local Repo to GitHub

1. Add the remote URL of your GitHub repository:
git remote add origin
<https://github.com/your-username/repo-name.git>

Step 5: Stage and Commit Your Code

1. Stage all files:
git add .

2. Commit the changes:

git commit -m "Initial commit"

Step 6: Push Code to GitHub

1. Push your code to the `main` branch:

git branch -M main

git push -u origin main

Step 7: Verify on GitHub

1. Go to your GitHub repository URL to see the uploaded code.

Conclusion: By following these steps, you can create a GitHub repository, connect it to your local machine, and push code effortlessly. This process enables version control and simplifies collaboration on projects."