Experiment -1.1

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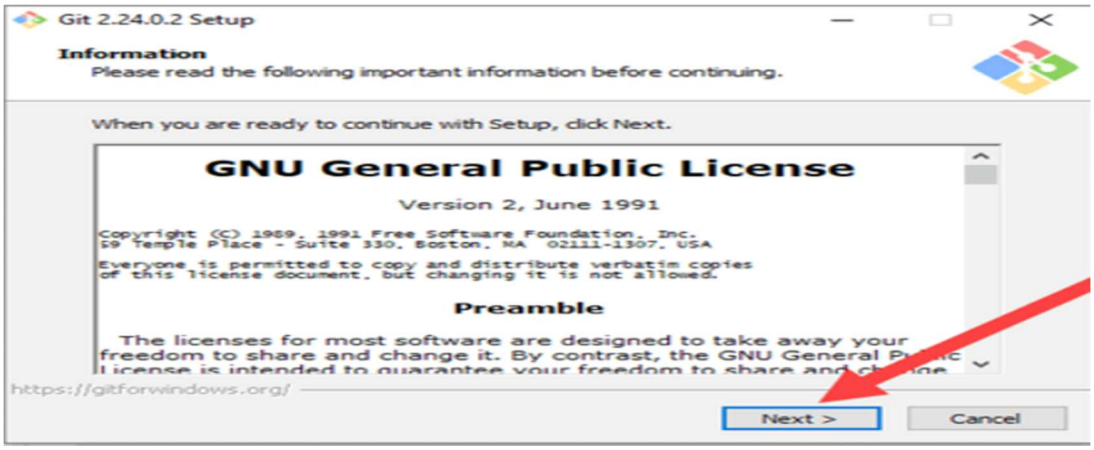
Branch: CSE (Devops) **Section/Group: 22BCD-1\A**
Semester: 4th **Date of Performance: 17/01/24**
Subject Name: Git and Git Hub **Subject Code: 22CSH-293**

1. **Aim/Overview of the practical:**
   Install Git, create a repository, and clone the repository into your local machine.

2. **Task to be done:**
   Download Git for windows OS and, to make repositories and clone the repository into the local system.

3. **Steps for experiment/practical:**
   Installing Git:
   1. Visit the official Git website: https://git-scm.com/.
   2. Click on the "Download for Windows" button.

3. Once the download is complete, run the installer.
4. On the first screen, you'll see the GNU General Public License. Click "Next" if you agree.

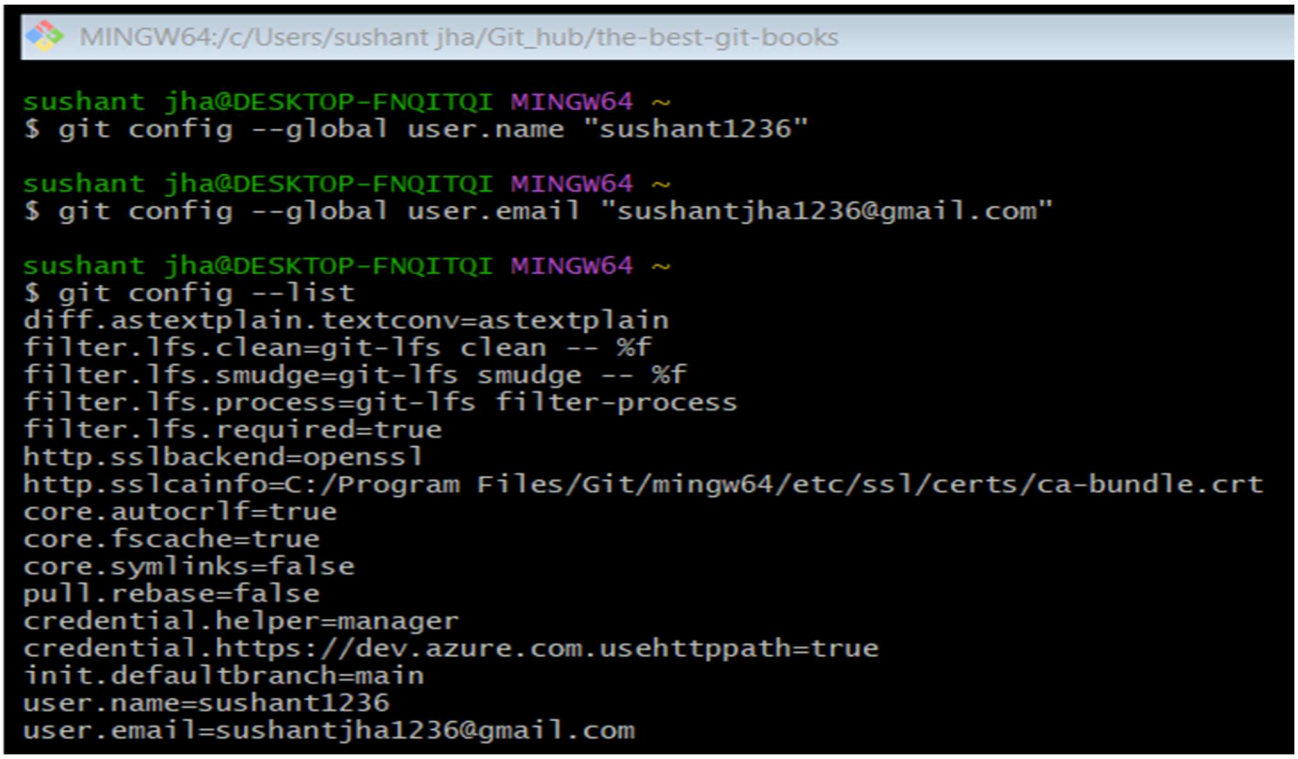


5. Choose the components you want to install. Click "Next" to proceed.
6. Choose the destination folder where Git will be installed. Click "Next".
7. Select the Start Menu folder for Git shortcuts or use the default suggestion. Click "Next."
8. Choose the default option, "Use Git from the Windows Command Prompt." Click "Next."
9. Choose the default option, "Checkout Windows-style, commit Unix-style line endings." Click "Next."
10. Choose the default option, "Use the MinTTY terminal emulator." Click "Next."
11. Choose the extra options here. Click "Next."
12. Click "Install" to begin the installation process and click Finish.

Configure Git:

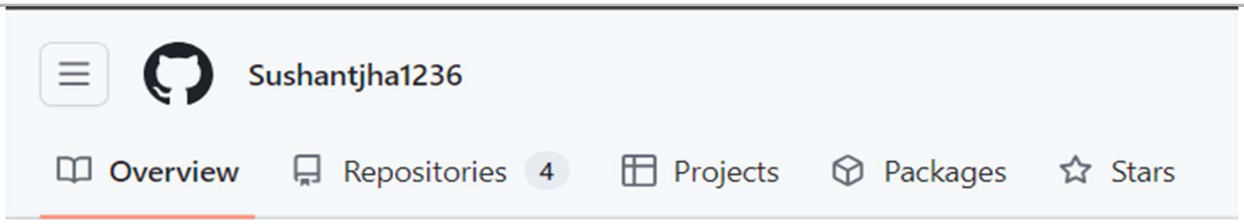
1. Find "Git Bash" in your Start menu. Open it to access the command-line interface.
2. Run “git config --global user.name "Sushant"” to configure your Git Username.

3. Run “git config --global user.email”sushantjha1236@gmail.com””to configure your email.
4. Verify that configuration is correctly ”git config --list ”.



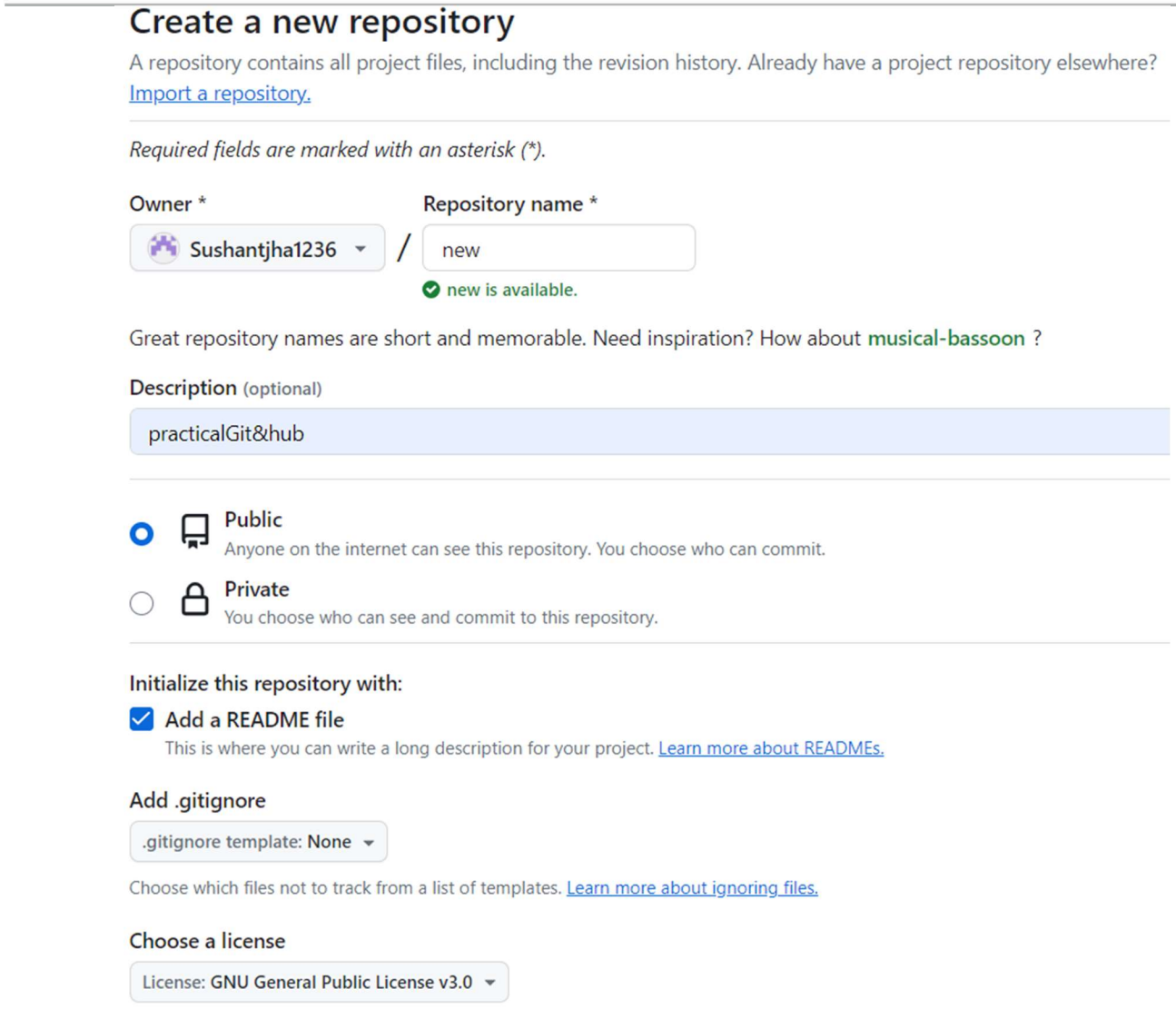
Create Repository:

1. Log in to GitHub:Go to the GitHub website and sign in to your account. If you don't have one, you can sign up.
2. Visit Your Profile: Click on your profile picture in the top-right corner and select "Your repositories."



3. Create a New Repository: Hit the green "New" button.

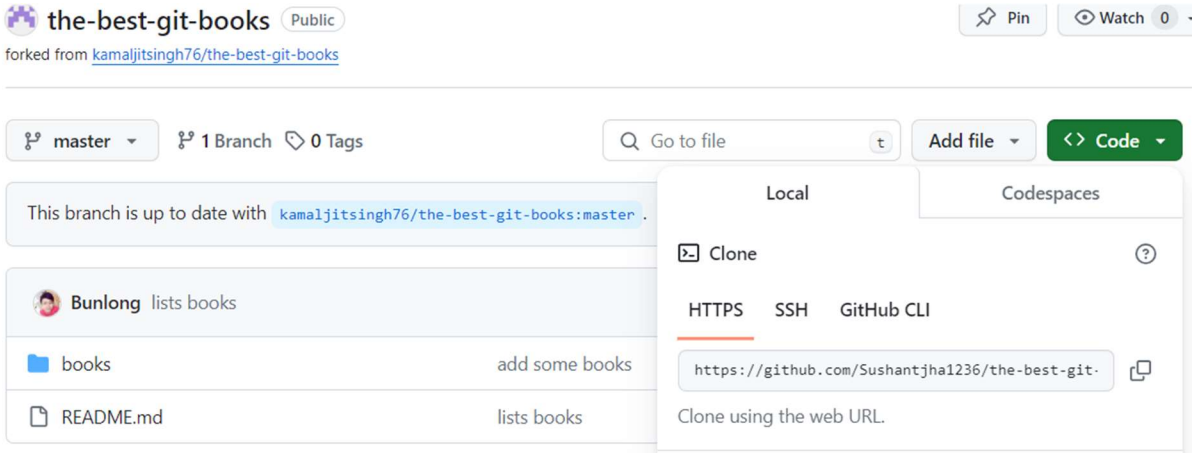
4. Fill in Details: Give your repository a name, add a short description, and choose whether it should be public or private. You can also decide if you want to start with a README file.
5. Add .gitignore and License: You can add a .gitignore file to tell Git which files to ignore. Also, choose a license for your project if you like.
6. Click "Create Repository": Hit the green button to create your repository.



7. Repository created.

Clone Repository:

1. Launch Git bash.
2. Open git hub. Go to the GitHub repository you want to clone.
3. Click the green "Code" button, select HTTPS, and copy the repository URL.



4. Open git bash and In your Git Bash, run the following command “git clone <<URL>>”.
5. Use the “ls” command to list the content of the working directory. If you find your repository in the list repository is successfully cloned.
6. Move into the newly cloned repository directory using the cd command.

```
sushant jha@DESKTOP-FNQITQI MINGW64 ~/Git_hub (main)
$ git clone https://github.com/Sushantjha1236/the-best-git-books.git
Cloning into 'the-best-git-books'...
remote: Enumerating objects: 27, done.
remote: Total 27 (delta 0), reused 0 (delta 0), pack-reused 27
Receiving objects: 100% (27/27), 92.13 MiB | 5.72 MiB/s, done.
Resolving deltas: 100% (2/2), done.
Updating files: 100% (16/16), done.

sushant jha@DESKTOP-FNQITQI MINGW64 ~/Git_hub (main)
$ cd the-best-git-books

sushant jha@DESKTOP-FNQITQI MINGW64 ~/Git_hub/the-best-git-books (master)
$ ls
README.md  books/
```

Adding new files in the repository:

1. Open git bash.
2. Move into the newly cloned repository directory using the cd command.
3. Use the “ls” command to see all the content of the current working directory.
4. Use the “touch ” command to add new files to the directory. “touch f1 f2 f3 f4”.
5. Use the “ls” command to see the added files.

Learning outcomes (What I have learnt):

1. Understanding Git Bash Commands
2. Use of GitHub Repository URL
3. Creating a Local Copy using Git bash.
4. Navigating Directories.
5. Connecting Local and Remote Repositories

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			