Lab 3: GitHub Desktop - Basic Repository Operations

Objective: Learn and practice basic repository operations using GitHub and GitHub Desktop, including creating a repository, cloning it to the desktop, making changes, committing the changes, and pushing them to the server.

Prerequisites:

A GitHub account. If you don't have one, sign up at https://github.com.

GitHub Desktop is installed on your computer. If you don't have it, download and install it from https://desktop.github.com.

Instructions:

Step 1: Create a Repository on the Server (GitHub)

Log in to your GitHub account.

Click on the "+" sign in the top-right corner and select "New repository."

Enter a name for your repository (e.g., "my-first-repo"). (You can also use your ICS499 final project repo instead)

Optionally, provide a description.

Choose whether the repository should be public or private.

Check the "Initialize this repository with a README" option.

Click on the "Create repository" button.

Step 2: Clone the Repository to the Desktop (GitHub Desktop)

Open GitHub Desktop on your computer.

Click on the "File" menu and select "Clone Repository."

From the list of repositories, select the one you just created (e.g., "my-first-repo").

Choose the local path where you want to clone the repository.

Click on the "Clone" button.

GitHub Desktop will now clone the repository to your local machine.

Step 3: Make Changes (GitHub Desktop)

Open the cloned repository in GitHub Desktop.

Make any desired changes to the files within the repository.

You can add, delete, or modify files according to your needs.

Step 4: Commit the Changes (GitHub Desktop)

In GitHub Desktop, you will see the list of changes you made.

Provide a summary of your changes in the "Summary" field.

Optionally, provide a more detailed description in the "Description" field.

Click on the "Commit to main" button to commit your changes.

Step 5: Push Changes to the Server (GitHub Desktop)

After committing the changes, you will see a "Push origin" button.

Click on the "Push origin" button to push your changes to the server (GitHub).

GitHub Desktop will upload your changes to the repository on the server.

Step 6: Make Changes on the Server (GitHub)

Open the repository page on GitHub in your web browser.

Navigate to the file(s) you want to modify. (or you can also upload new files directly to the server)

Click on the pencil icon ("Edit this file") to make changes directly on the GitHub server.

Make the desired changes to the file(s).

Scroll down to the bottom of the page and provide a summary of your changes in the "Commit changes" section.

Optionally, provide a more detailed description.

Click on the "Commit changes" button to save the changes on the server.

Step 7: Fetch the changes (Fetch Origin) from the Server to the Desktop (GitHub Desktop)

In GitHub Desktop, click on the "Fetch origin" button to check for any new changes on the server.

If there are new changes, you will see an option to "Pull origin." Click on it.

GitHub Desktop will download the changes from the server to your local machine.

Congratulations! You have completed the basic repository operations lab using GitHub and GitHub Desktop.

What to submit?

Screen shot of your repo files on GITHUB Server (github.com)

Screen shot of your GitHub Desktop showing the repo files (GitHub desktop) please explain step by step to complete the LAb3