Guide on How to Setup and Use GitHub Desktop with Vivado

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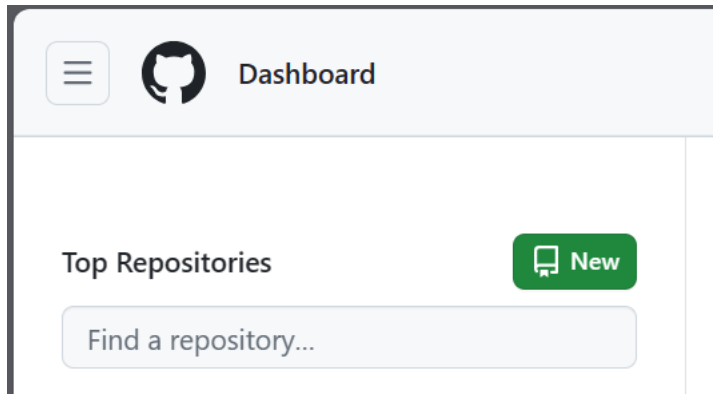
Introduction

In this course, you will be continuously working with a group on a project that includes many different files. It is important to find a means to share your code safely and effectively with your teammates. It is recommended to learn how to use GitHub Desktop as it is very commonly used by students at the university, and it is makes file sharing and editing much easier than most other means.

This guide will allow you to write code in Vivado then send it to your teammates with the click of a button.
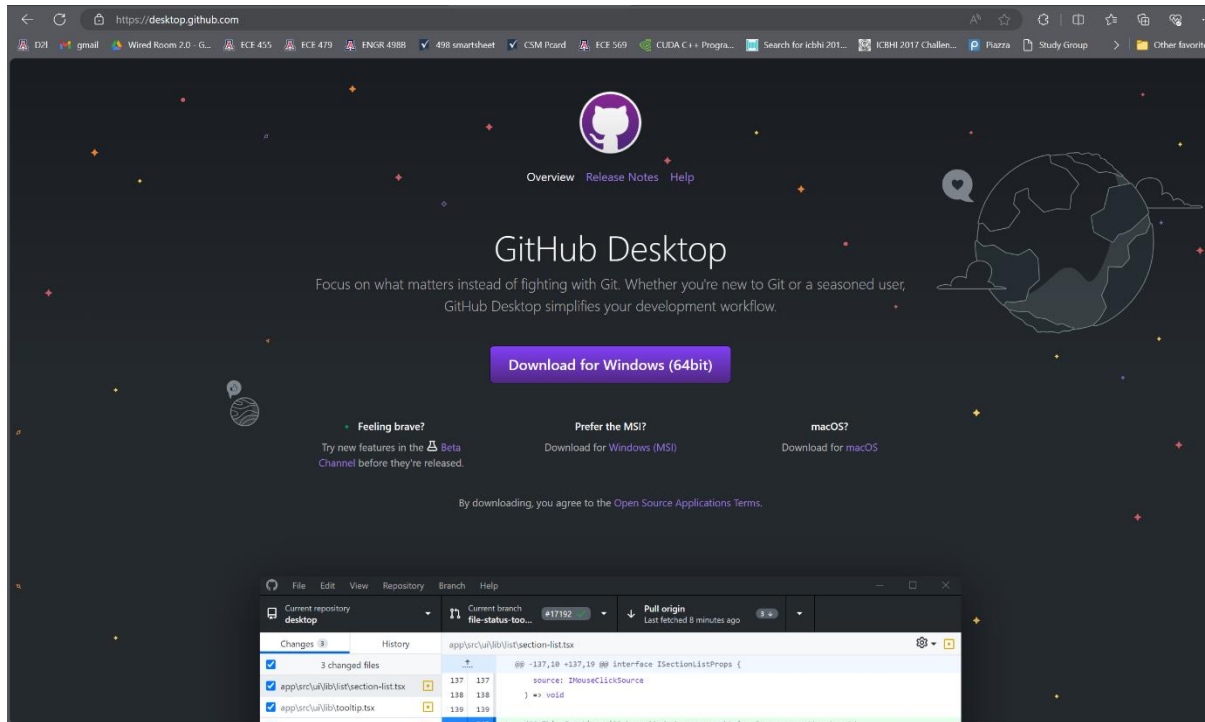
Creating a repository

Go to https://github.com/dashboard while logged into your GitHub account. At the top left, click the 🖥 New button to create a new repository.

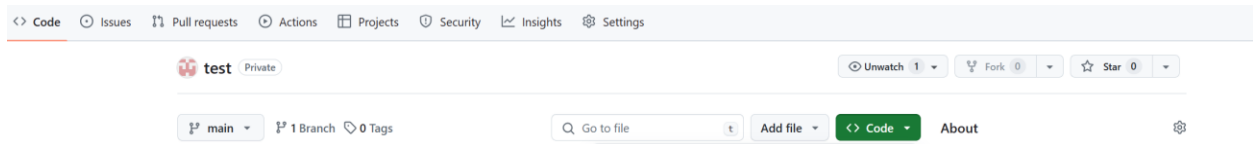(it is recommended that you initialize the project with a README file)

Downloading GitHub Desktop

Go to https://desktop.github.com/ and download the version specific to your OS.
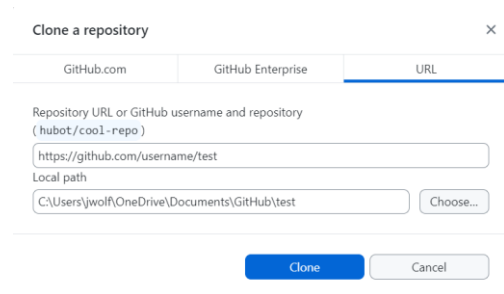
Opening Your Project in GitHub Desktop

Step 1) Open your repository on github.com. You should see something that looks like this:

Step 2) Click on the button, then click on

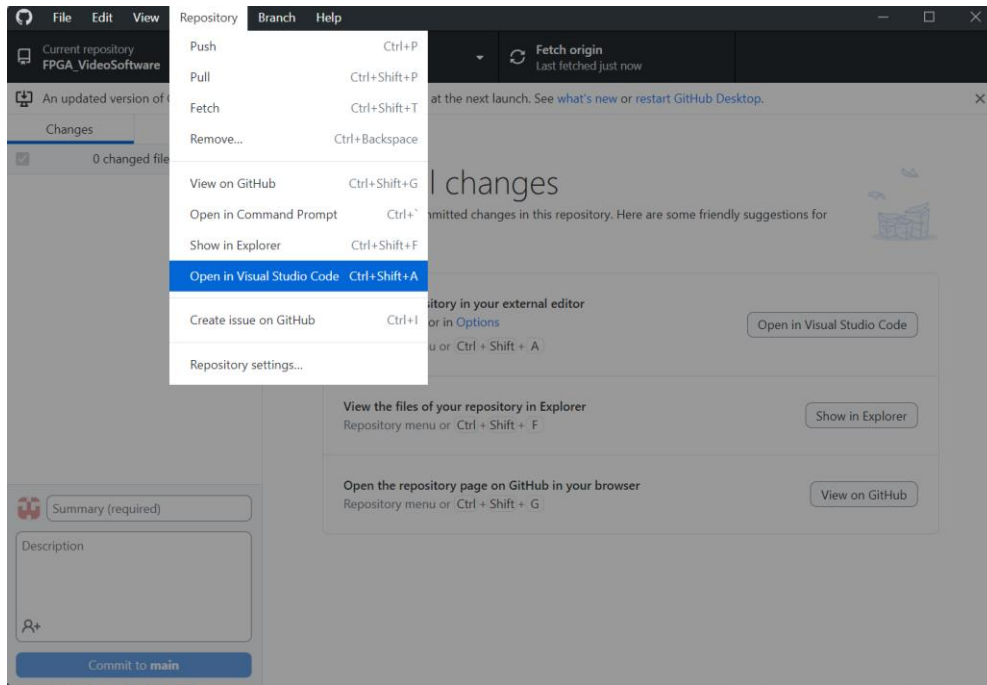**Step 3)** You will see a window pop-up like this:

Step 3) Click on

Editing Your Project in VSCode or Vivado

Editing in VSCode:

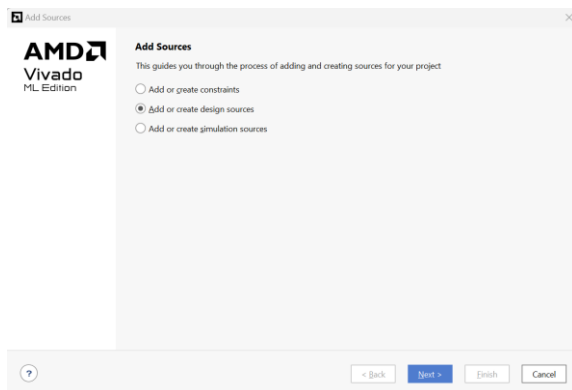**Step 1)** Open up your repository in GitHub Desktop

Step 2) Click on "Repository" in the top ribbon

Step 3) Click on "Open in Visual Studio Code"

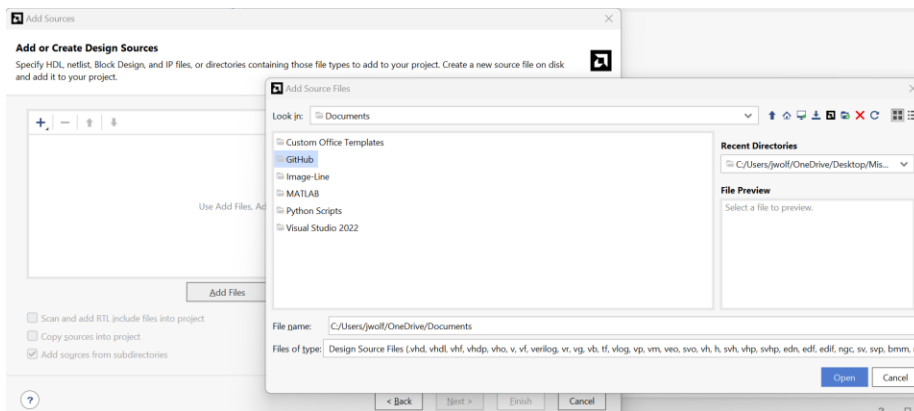## Editing in Vivado:

Step 1) Go to Add Sources in Vivado

Step 2) Click on "Add Files" and add the files from your GitHub desktop directory
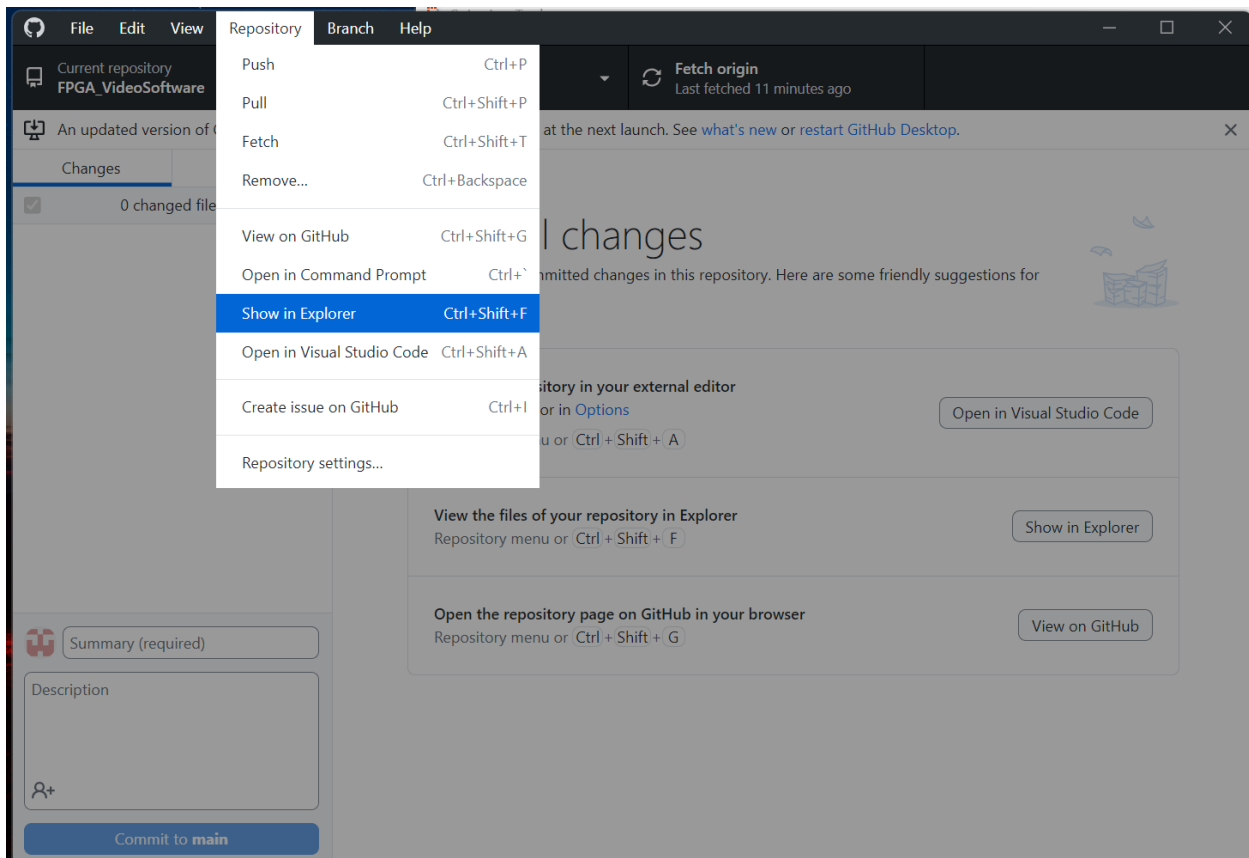

How to Find GitHub Desktop Repository

Step 1) Open up your repository in GitHub Desktop

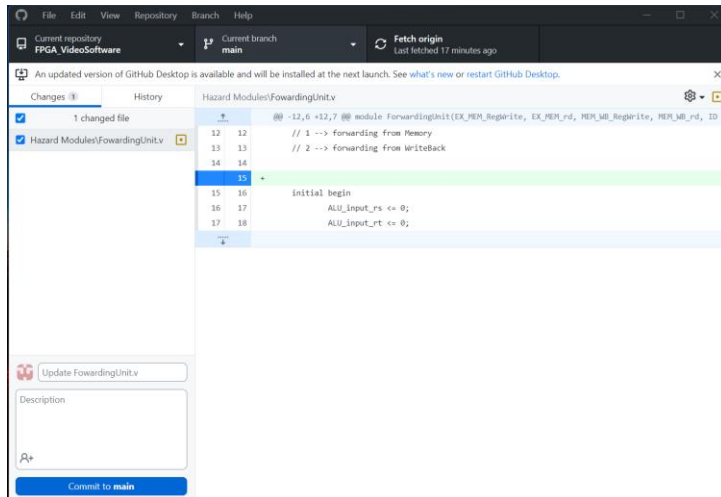**Step 2)** Click on "Repository" in the top ribbon

Step 3) Click on "Show in Explorer"
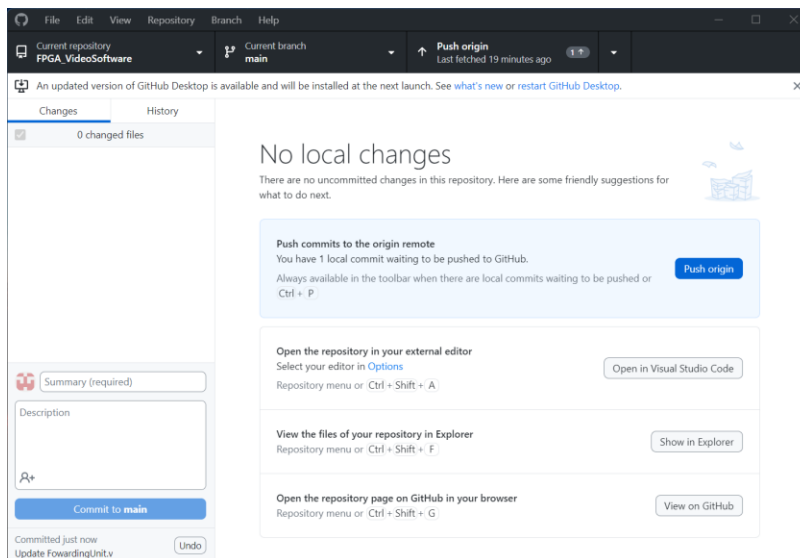
Updating the Repository with Your Changes

Once you have made edits to the repository, you must then send the update to your teammates.

Step 1) Open your repository in GitHub and observe the changes on the left side

Step 2) Write a description of what you changed, and then click on

Step 3) To finalize the update, click on

Step 4) Now your teammate may "fetch origin" then "pull origin" in order to receive the changes.