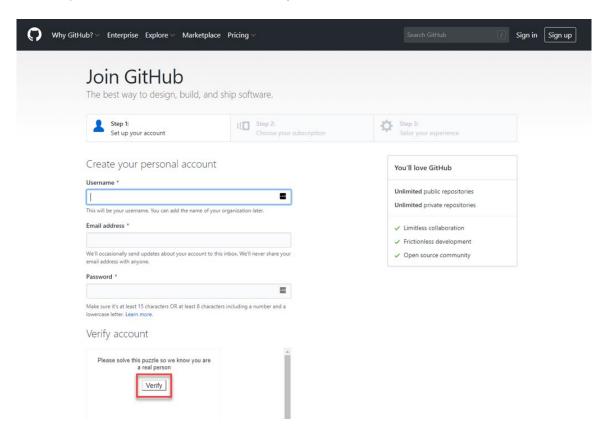


CS 465 GitHub Repository Tutorial

Setting Up Your Account

If you have not done so already, go to <u>GitHub</u> and set up an account. **Note**: You must register for a GitHub account using your SNHU email address. Using your SNHU email will configure your account with the academic policy automatically. GitHub will ask you to create a username, add your email address, and create a password. When finished, click **Verify**.

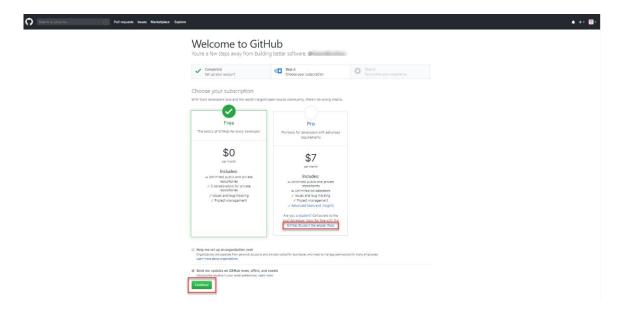


When you click **Verify**, a puzzle will appear, and you will be asked to solve it. The puzzle will likely be different from the puzzle in this example. After you answer the question correctly, you will be able to click on the **Create an account** button.

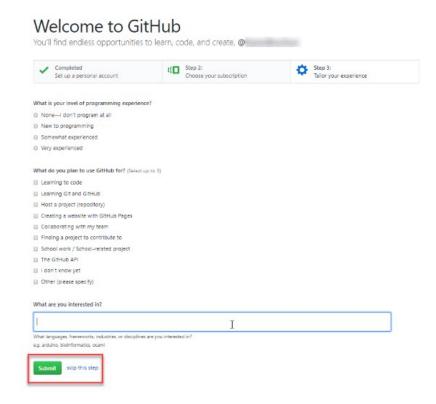




You will be taken to a welcome page, where you can select your account type. For the purposes of this class, you only need the free option. After you make your selection, click **Continue**.



GitHub will send an email verification. Make sure to verify your account. On the next screen, you will be asked questions about how you intend to use GitHub. You may choose to fill out the form and click **Submit**, or you may choose **Skip this step**.





Creating Your GitHub Repository

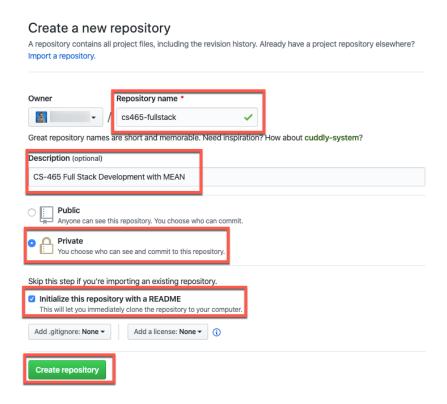
To create a new repository, first sign into your GitHub account. On the home page, click the **Repositories** tab and then choose **New**.



If you do not have any repositories yet or have just created a new GitHub account, look for the small **plus sign** in the top-right corner of the home page screen and click on it. Select **New repository** from the drop-down list.



The **Create a new repository** screen will be displayed. You will be prompted to enter a repository name and description, select the visibility of the repository, and choose whether to initialize the repository with a README. Fill out the prompts as shown.





Creating a Local Git Repository From the Remote GitHub Repository

In a PowerShell command window, make certain that the current working directory is your user directory by typing the following command and pressing **Enter**:





Note: The tilde character (~) is shorthand for your user directory.

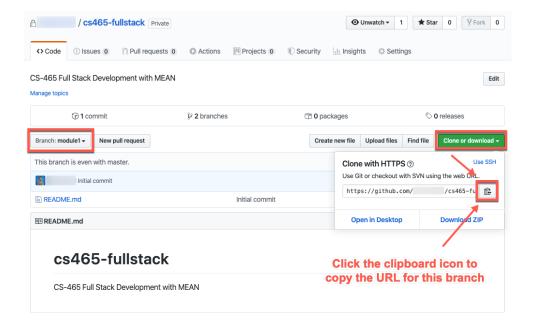
Clone the remote GitHub repository into a new directory in your user folder by typing the following command and pressing **Enter**. View the Cloning a Repository webpage to learn more.

git clone https://github.com/GITHUB-LOGIN/cs465-fullstack.git travlr

```
> git clone https://github.com/i /cs465-fullstack.git travlr
Cloring into 'travle'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
```

Note: The command has four parts, each separated by a space. You must replace GITHUB-LOGIN shown above with your unique GitHub login name.

Alternatively, you can copy the URL of your repository by getting it from the GitHub webpage where you just created the new branch. On the right side of the page, click the **Clone or download** button and then click the **clipboard icon** to copy the URL for this brand.





After typing "git clone" with a trailing space afterward, right-click your mouse anywhere in the PowerShell window to paste the URL from the clipboard at the end of the command. Then you only need to type another space and then "travlr". The actions would be the following command:

git clone <space> <paste URL> <space> <travlr>

Change the working directory to travlr.

cd travlr



Display the status of your local Git repository by using the git status command.

```
> git status
On branch master
Your branch is up to date with 'origin/master'.
nothing to commit, working tree clean
```

At this point, you have a local Git repository on your computer that is linked to your remote GitHub repository. You can verify that the **travir** directory has the files cloned from the GitHub repository with the following two commands:

dir type README.md

Creating a New Branch in Your Git Repository

Before you begin working on a new module, create a new branch to track your changes to the code and website. When creating a new branch, it is important to understand that the branch you have currently checked out will be the basis for the new branch. For example, to make a new branch for module1 work, enter the following command:

git checkout -b module1



```
> git checkout -b module1
Switched to a new branch 'module1'
```

Notice the **-b** in the above command indicates a new branch is being created.

Tip: Do **not** put embedded spaces into your folder or branch names. The space character is often used to delimit different parts of a command, so when you put spaces into names, you are forever forced to use escape sequences to work with those names. If you want to separate a name into distinct parts, the recommended method is to use dashes or underscores such as "module-1" or "module_1". Remember, this is programming code you are working with, not an English paper!

Checking the Status of Changes in Your Git Repository

Note: You cannot continue with this tutorial if you have not already completed the Module One Full Stack Guide. Stop and complete the Module One Full Stack Guide before continuing to the next step in this tutorial.

To see the status of all changes to your local Git repository, use the following command:

git status

Notice the files in red font. These files are not tracked in the Git repository.

Staging and Committing Changes to Your Git Repository

Stage all the new and modified files to be committed using the following command:

git add.



git commit -m 'Express website, static HTML only'

```
> git commit -m 'Express website, static HTML only'
[module1 a795289] Express website, static HTML only
45 files changed, 2055 insertions(+)
create mode 100644 app.js
create mode 100644 bin/www
create mode 100644 package-lock.json
create mode 100644 package.json
create mode 100644 public/about.html
create mode 100644 public/contact.html
create mode 100644 public/css/style.css
```

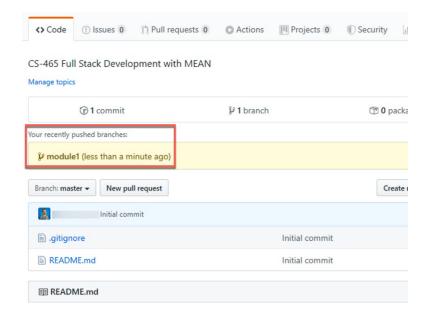
Uploading a Branch From Your Local Git Repository to a Remote GitHub Repository

To send your local committed changes to a remote repository, use the following command:

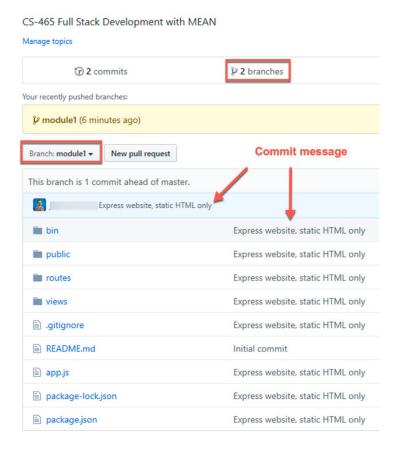
git push --set-upstream origin module1



When you switch over to GitHub, you will see that the recent push is detected, and the new branch has been added.



You can now choose the **module1** branch and see your Express website files there.





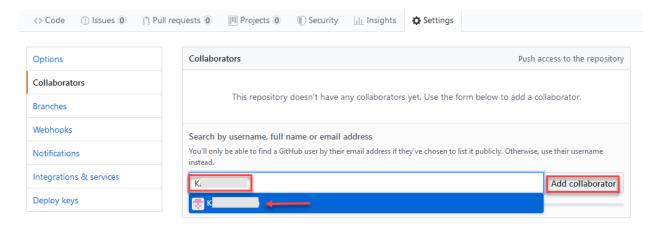
Adding a Collaborator

For your instructor to view and grade your portfolio, you must add them as a collaborator to your repository. Follow the instructions on the Inviting Collaborators to a Personal Repository webpage.

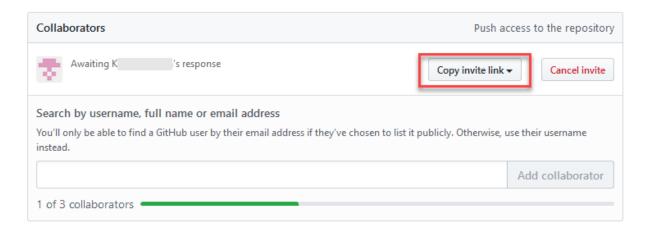
From the sidebar menu, click the **Collaborators** link to open the Collaborators page.

For security, you will be prompted to confirm your password. Once you have confirmed your password, you will be taken to the **Collaborators** page. Look for **Search by username**, **full name or email address** and enter your instructor's GitHub username in the box. Once you have typed their name in the box, their username should appear below the search. Click on the username, then click **Add collaborator**.

Note: Your instructor should have provided their username in an announcement or discussion post. If you are unsure of their username, please email your instructor.



Once you have completed this step, you should see your instructor's username listed under **Collaborators**. The webpage will say, "Awaiting [username]'s response." You will also see a button labeled **Copy invite link**. Click this button.





A pop-up message with a URL for the invitation link will appear. Click on the text to highlight it, as shown in the image. Press **CTRL+C** to copy the link to your clipboard. Then paste your link into the indicated box and submit it to your instructor.

