CPSC 314 Web Development

Gonzaga University

Daniel Olivares

Homework 1 – Submitting your first assignment to our GitHub Classroom repository

<mark>Individual, non-collaborative assignment</mark>

Learner Objectives

At the conclusion of this programming assignment, participants should be able to:

- Create a basic HTML web page
- Initialize and commit to a local Git repository
- Accept a GitHub Classroom assignment
- Add a remote repository and push committed changes to a remote Git repository (on GitHub)
- Upload files to a remote server using SFTP or SSH

Prerequisites

Before starting this programming assignment, participants should:
- Understand and execute basic Linux commands
- Have completed chapter 1 in the class zyBook

Overview and Requirements

For this assignment, you will be creating and modifying a basic HTML web page using a provided template and committing the web page and any web resources to a local repository. You'll also be required to add a remote repository and push your committed resources to GitHub.

Submitting Assignments

Submitting your assignment requires submitting in two steps:

1. Submit your assignment to the appropriate GitHub Classroom repository. You'll find the invitation URL as part of this assignment and on the Canvas assignment page.

2. Submit your two URLs to Canvas:

   a. Submit your GitHub Classroom repository URL to Canvas (Line 1).

   b. *Submit your http://barney.gonzaga.edu/~studentname/ URL to Canvas (Line 2)*

Note: *By submitting your code to be graded, you are stating that your submission does not violate the CPSC 314 Academic Integrity Policy outlined in the syllabus.*

Assignment Tasks (Part 1)

1. Create a folder with your GitHub username prepended by "hw1-", e.g. **hw1-BobSmith** where "BobSmith" is the GitHub username (*note that this format is only required for assignment submission for this class and not a requirement of Git/GitHub*).

hw1-BobSmith
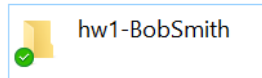
2. Use the provided template as a starting point for your basic HTML web page from https://www.w3schools.com/html/default.asp (see below) and save it as **index.html** in the folder you created in step 1.

```html
<!DOCTYPE html>
<html>
<head>
    <title>Page Title</title>
</head>
<body>
    <h1>This is a Heading</h1>
    <p>This is a paragraph.</p>
</body>
</html>
```

3. Make the following modifications (at a minimum, you may change more, just make sure to meet each requirement)
   a. Change the page title to your name plus the class name
   b. Modify the Header 1 tag content to reflect that this is your HW1 submission
   c. Modify the paragraph tag content to a few sentences describing what you hope to gain from this course.
   d. In the above paragraph, use the emphasis and strong emphasis at least one time each to highlight key words in your paragraph.
   e. Add an image tag referencing, **as a local source file**, a meme or image of your preference (possibly even relevant to the paragraph in bullet c).
   f. Make sure to save a copy of the image into the folder created in step 1.
   g. Add a link tag with a reference to an external website where you found the above image. Make sure to include an appropriate link text describing the link.
   h. Add a style section to your HTML document and change one attribute of your page (your choice), e.g., color, background, etc. using CSS styling.
   i. Add a button tag after your paragraph and a script section to the appropriate part of your web page. Write a JavaScript function to dynamically produce some result (your choice) on your web page, e.g., produce an alert, change a color or style of an element on your page, etc.

Assignment Tasks (Part 2: GitHub Classroom & SFTP Submission)
"Submitting to GitHub"

1. Make sure you have a GitHub account. ***Choose a username carefully!*** ***This should be a GitHub account you would share with perspective employers*** (and with your instructor of course!)
   a. If you don't have a GitHub account: https://github.com/join
2. Use the HW1 assignment link to accept access / create to a GitHub repository for your homework submission
   a. https://classroom.github.com/a/iFemRARt
   b. You should see the below with your GitHub username, click the accept button.
      i. ***You may have to join the course first (see point e below)***

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Accept the assignment —
Homework 1

Once you accept this assignment, you will be granted access to the

homework-1-~~█████████~~ repository in the Gonzaga-CPSC-Fall-2021-Olivares organization on GitHub.

Your GitHub Username

Accept this assignment

   c. After clicking the accept button, you should see the following:

You accepted the assignment, **Homework 1** . We're configuring your repository now. This may take a few minutes to complete. Refresh this page to see updates.

Your assignment is due by **Sep 20, 2021, 23:59 PDT**

Note: You may receive an email invitation to join Gonzaga-CPSC-Fall-2021-Olivares on your behalf. No further action is necessary.

You're ready to go! **Your GitHub Username**

You accepted the assignment, **Homework 1**.

Your assignment repository has been created:

https://github.com/Gonzaga-CPSC-Fall-2021-Olivares/homework-1~~████~~

We've configured the repository associated with this assignment (update).

Your assignment is due by **Sep 20, 2021, 23:59 PDT**

Note: You may receive an email invitation to join Gonzaga-CPSC-Fall-2021-Olivares on your behalf. No further action is necessary.

   d. You should notice that your repository created is named your GitHub username prefixed with the current assignment name and a dash.

e. Note that you may receive an email or be directed first to a page requesting you join this class GitHub Classroom if you have not already joined (per the note in the above image) that you have to accept before gaining access to this assignment. For example:
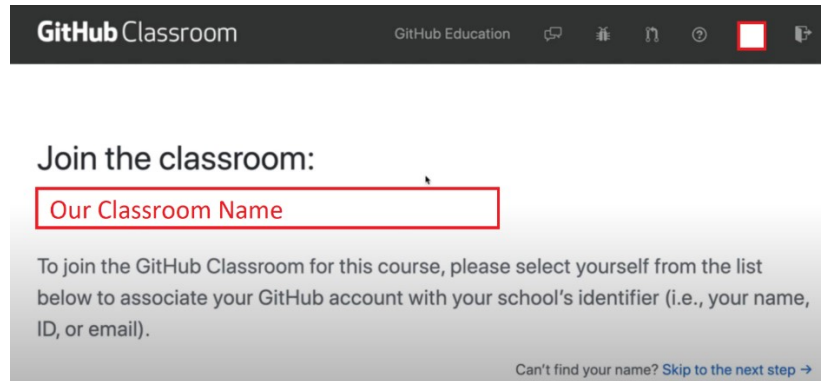
3. If you click on the link generated by step 3e, you should see the following (similar to that you see in our GitHub tutorial document):
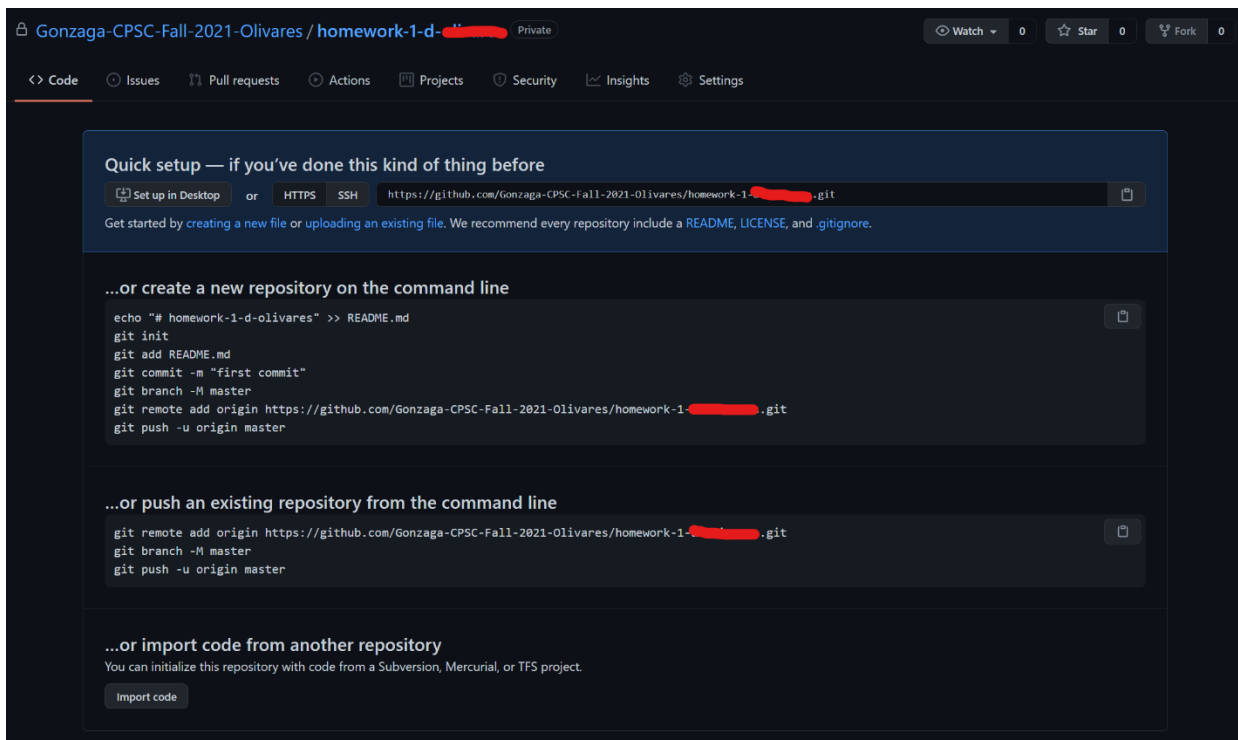
a. Note that if you follow the above imaged commands to add files to your repository, you will want to add -your- files, not just a README.md.

4. See this wonderful video created by Dr. Sprint for a similar, detailed, step-by-step of submitting a solution to GitHub Classroom (with no starter code provided): https://youtu.be/jXpT8eOzzCM?t=424 from about the 7 minute mark until the 12:25 minute mark (*though more detail after is very helpful!*).

    a. Following the GitHub Tutorial (also attached to this assignment prompt) for submitting your code or follow the above linked video steps should result in something *similar to the below image*:

5. Now, if you refresh the previous repository page on GitHub, (seen in step 4) you should now see something *similar to the below*:
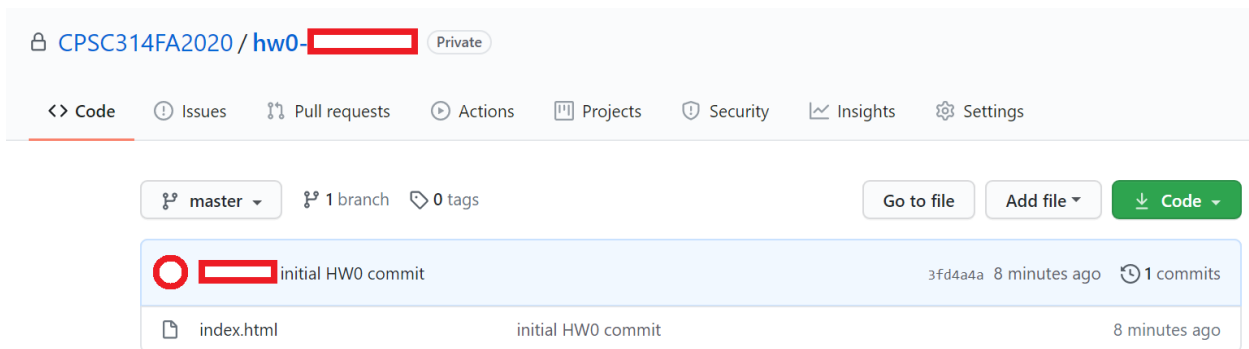
6. That's it! You have just submitted to the GitHub Classroom assignment! Note that you can (and probably will often) make multiple commits and push multiple times to the repository. Later in the course, you will actually be graded on your commits, e.g., one commit for an entire project **is not best practices!**

7. If you would like, you may also use a non-command line method for submitting your assignments, e.g., see this alternate method using VS Code https://youtu.be/iqW_yzZkU_8?t=519 (thanks again Dr. Sprint!).

"Submitting" to the Barney Server

1. Follow the steps outlined during class and via the GU provided tutorial and/or the video tutorial posted on the Canvas Modules page:
   a. https://barney.gonzaga.edu/

2. Upload your file(s) to your user `public_html` folder in a subdirectory named HW1 (**CASE SENSITIVE!** hw1 **is a different directory than** HW1**!**). For example:
   a. `/home/GONZAGA/YOUR_GU_USERNAME/public_html/HW1/*.*` (all your files I this folder)
   b. TEST that your webpage is viewable! It should be accessible via a URL similar to the below where studentname is your GU username (the tilde '~' character is important too!)
      i. `http://barney.gonzaga.edu/~studentname/HW1/index.html`
   c. *NOTE: you will also need to upload any additional files, e.g., images, if they exist.*

Grading Guidelines

This assignment is worth 50 points. Your assignment will be evaluated based on a completeness of your submission and adherence to the web page requirements. We will grade according to the following criteria:

- 2 pts for change the page title to your name plus the class name
- 2 pts for modifying the Header 1 tag
- 5 pts for modifying the paragraph tag content to include a few sentences describing what you hope to gain from this course.
- 3 pts for using the emphasis and strong emphasis at least one time each to highlight key words in your paragraph.
- 5 pts for adding an image tag referencing, as a local source file

- 3 pts for adding a link tag with a reference to an external website where you found the above image and using appropriate link text describing the link
- 5 pts for adding a style section changing at least one attribute of your page using CSS styling
- 5 pts for adding a button tag and writing a JavaScript function to dynamically produce some dynamic change to your web page
- 10 pts for uploading your file(s) to the barney server and submitting a working URL.
- 10 pts for adherence to guidelines and following directions.