CPSC 314 Web Development

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Homework 2 – HTML

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

Learner Objectives

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

- Create a basic, multi-page 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 website files to a remote host using SFTP

Prerequisites

Before starting this programming assignment, participants should:

- Understand and execute basic Linux commands
- Have completed chapter 2 in the class zyBook
- Have completed Homework 1

Overview and Requirements

For this assignment, you will be creating and modifying a basic multi-page HTML web site and committing the web pages 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. The theme for this HTML web page will be "Personal CV" – This will be a web page displaying your profile, experience etc.

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. Your task is to create an HTML web page version of your curriculum vitae using the basic HTML features learned in Chapter 2 of the course zyBook.
   a. Content requirements are based on the following CV Guide: http://www.inspiringinterns.com/blog/2018/02/6-essential-elements-of-a-strong-cv/
   b. Read through the URL suggestions for CV content or feel free to consult alternate CV
   c. You are not required to create the personal CV for yourself (*though it will be extremely beneficial!*) and may choose to create a CV for a fictitious person though **you may not copy and paste (i.e., plagiarize) CV content from examples you find online.**
   d. Do not include any personal information that would not be displayed on a public profile, e.g., phone number and mailing address. Assume that any information displayed here would be visible to the public.
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 your HW2 folder. You are not allowed to start from a website builder / template page generator!

```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 additions to your CV website. Note that these are the minimum requirements, you may change more, just make sure to meet each requirement. This will be a basic web site; you are not required to use CSS styling or JavaScript. We will be adding these things in a future assignment.
   a. An "Introduction" page
      i. Includes a summary **paragraph**
      ii. Includes a profile **image**
      iii. Includes an **unordered list** of your core skills
      iv. Includes at least 1 section link (**fragment**) to another section/page in your web site
   b. A "Career Summary" page
      i. Use a **table** to organize your roles and work experience in reverse chronological order. Your table should have multiple **columns** to visually separate relevant information with one row for each item
   c. An "Education and Qualifications" page
      i. Use **tables** to organize your education and qualifications. Your table should have multiple **columns** to visually separate relevant information

ii.   Create a separate table for each category, e.g., education, work experience, qualifications, etc. Make sure to include an appropriate **caption** as needed
 d.   An "Interests and Hobbies" page
  i.   Use an **ordered list** (type of your choosing) to list your interests and hobbies.
  ii.   At least one of the listed interests/hobbies should include a **graphical hyperlink** using an appropriate image which opens a website in a new window. Visually, it may make sense to have an image for each item even if they are not a hyperlink. Set the image used for the graphical hyperlink to a reasonable **resolution (size)** using the appropriate attributes and NOT by resizing the image in an image editing program.
 e.   A navigation scheme to traverse your 4 pages
  i.   You should be able to follow a **link** from one page to any of the other 3 pages, i.e., If you are viewing the career summary page you shouldn't have to go back to the home page to go to the interests and hobbies page
  ii.   These navigation links should open in the same window
 f.   **Sections** and **subsections** of each page should use appropriate **headers**
 g.   Create and include a **favicon** for your website
 h.   Include a block **comment** at the top of each page with your name, the class name, assignment name, and last modified date.
 i.   Use the validator website to make sure you do not have any warnings or errors: https://validator.w3.org/
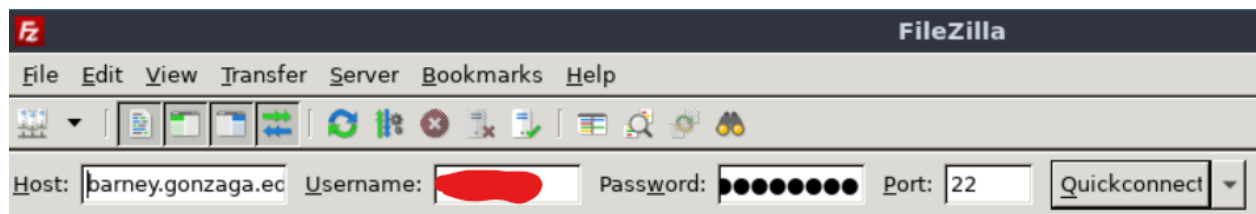
Part 2: GitHub Classroom Submission

See the tutorial for submitting to the GitHub Classroom in HW1, the process will be the same with the exception of the assignment URL which you'll find below.
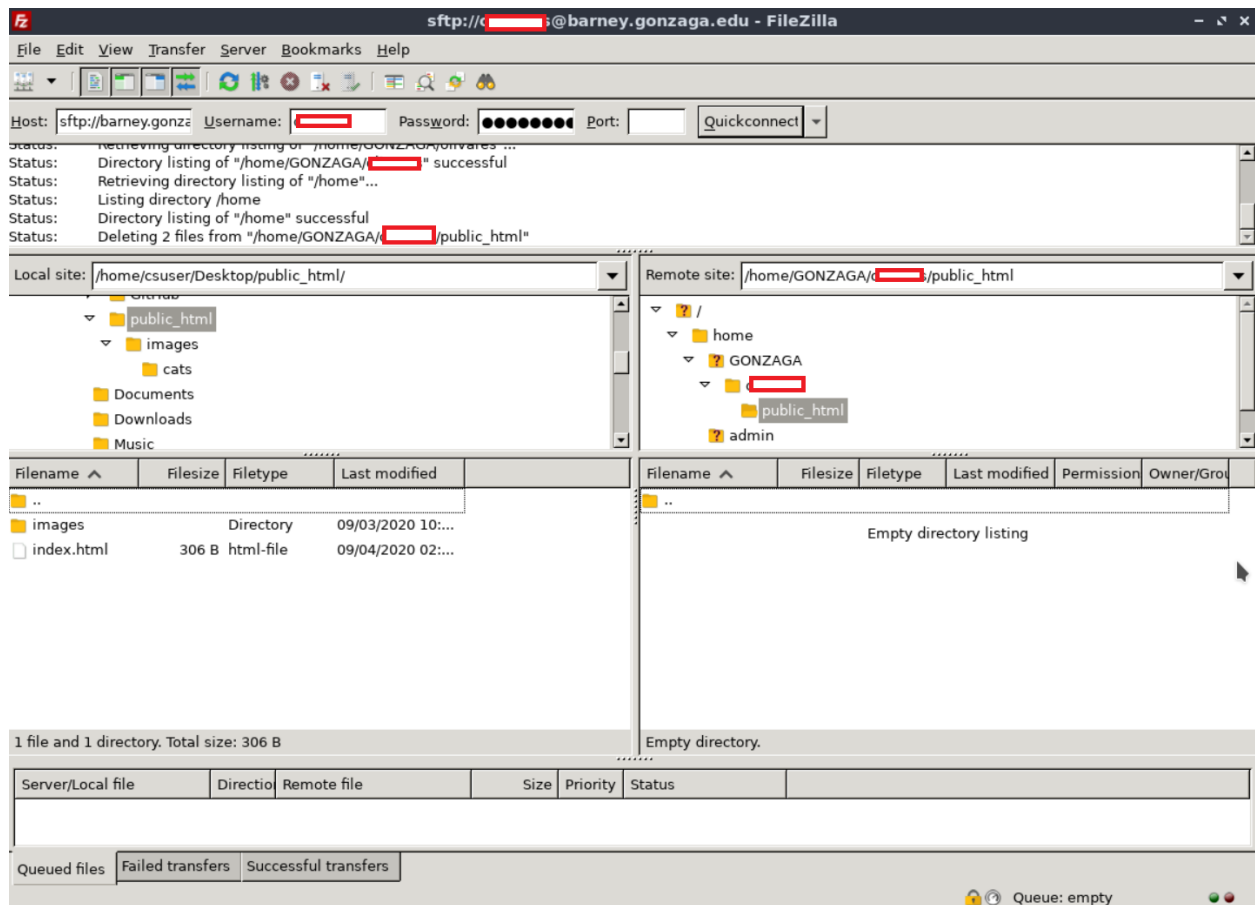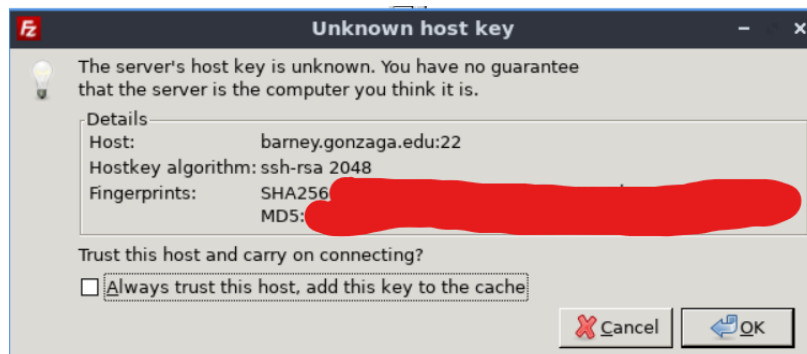
1.   https://classroom.github.com/a/TEzQv1h6

Part 3: Uploading your website to a remote host

The final task for this assignment is to upload your website and all of its resources to a public web host.
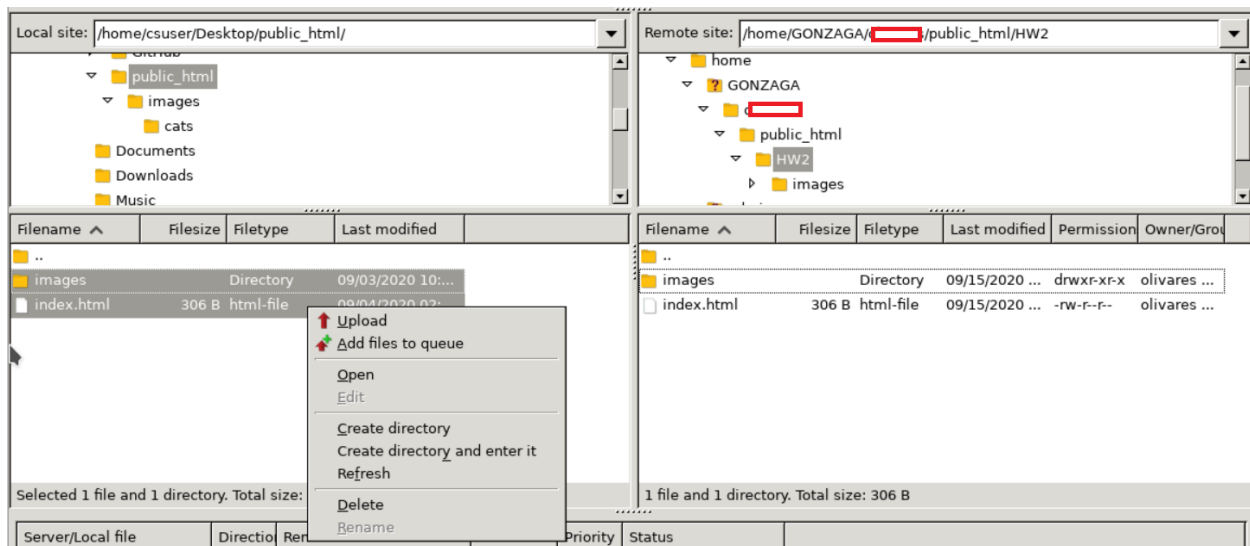
1.   Connect to the barney.gonzaga.edu web server.
 a.   You are free to use any SFTP program/method of your choice. I'll walk through the FileZilla GUI method below. (***Note: will update later with WinSCP per concerns about FileZilla but you should see a similar process with other programs***)
2.   Using FileZilla, you will need to specify the barney.gonzaga.edu host name. Use your GU username and password to authenticate and port 22. Clicking Quickconnect should authenticate and display the contents in the remote pane.
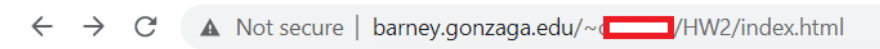
3. The first time you connect, you may receive an "Unknown host key" message. You can click OK.

4. Create a folder in your public_html folder named HW2.
5. Upload your entire HTML web site into the public_html/HW2 folder

6. You should be able to browse to your web site from any internet connected computer, e.g.
   `http://barney.gonzaga.edu/~studentname/HW2/index.html` where studentname is your GU username.

Example Home page

1. Example Page
2. Bonus Page

Grading Guidelines

This assignment is worth 85 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 an "Introduction" page
  - 2 pts for a summary **paragraph** and using paragraph tags appropriately
  - 2 pts for a profile **image** and using an appropriate alt attribute
  - 4 pts for an **unordered list** of your core skills
  - 4 pts for at least 1 section link (**fragment**) to another section/page in your web site
- 2 pts for a "Career Summary" page
  - 5 pts for at least one **table** with multiple **columns**
- 2 pts for an "Education and Qualifications" page
  - 10 pts for at least two **tables:** one for education and a second for qualifications with each using multiple **columns** appropriately to visually separate relevant information
  - 4 pts for an appropriate **caption** for each table
- 2 pts for an "Interests and Hobbies" page
  - 5 pts for an **ordered list** (type of your choosing)
  - 4 pts for at least one **graphical hyperlink** using an appropriate image
  - 2 pts for the graphical hyperlink opening a website in a new window
  - 4 pts for using setting the graphical hyperlink image to an appropriate size using the correct image attributes
- 5 pts for a navigation scheme to traverse your 4 pages (in the same window)
- 5 pts for appropriate use of **sections** and **subsections** in your 4 pages
- 2 pts for using a **favicon** for your website
- 4 pts for a block **comment** at the top of **each page** with your name, the class name, assignment name, and last modified date.
- 5 pts for all 4 of your web pages passing the validator check without any warnings or errors
- 10 pts for adhering to directions and formatting