
Web-Based Application Design and Development (ITIS 3135)

Activity 1: Create your first HTML page and upload it to the web server

This activity is based on in-class activities. In this activity, you are going to go through the entire process of developing and publishing a simple web application. Please follow the instructions below.

Part 1: Request a Personal Webpages account This is your web server space

1. Go to <https://hosting.charlotte.edu/>
 - a. Login with your UNC Charlotte credentials.
 - b. Click the '**Personal Webpages**' service link.
2. Click the '**Request an Account**' link.
3. Click the '**Submit Request**' link.
4. **Log out** – upper right corner.

Part 2: Download and Install a Web Integrated Development Environment (IDE) (e.g. the VS Code, or an IDE of your choice that you are familiar with). This is your integrated development environment (IDE) for writing HTML, CSS and JavaScript codes in your local machine. Go to the link:

<https://code.visualstudio.com> to download the VS Code and review relevant instructions.

Part 3: Download and Install the VPN.

You need VPN to access your web server space from outside UNCC

1. Go to <https://software.charlotte.edu/>
2. Login with your NinerNet credentials
3. Find and download UNC Charlotte VPN
4. Once installed, start the VPN whenever you need to access the webpages server

Part 4: Download and Install Filezilla FTP Software

This software will help you upload files from your local machine to your web server space

1. Go to <https://software.charlotte.edu/>
2. Find and install Filezilla
3. Look up online for instructions for using FileZilla to transfer files between your local computer and the web server on webpages.charlotte.edu
 - A good introduction is the Wikipedia page [https://wiki.filezilla-project.org/FileZilla_Client_Tutorial_\(en\)](https://wiki.filezilla-project.org/FileZilla_Client_Tutorial_(en))
 - If you need further help, check out this YouTube video, <https://youtu.be/C-88Gwmu8CQ?si=85NDfHZXCvH4hJj> (e.g. review the segments that start at 7min, and 9min)

Part 5: Develop the simple web application.

1. Create a folder on your local computer and name it "**Exercise**".
2. Go to Canvas. Download the HTML and CSS files for Activity #1 (Activity1-MeAndMyCourse.html and Activity1.css) under the **Exercise** folder on your **computer**
3. Rename the HTML file as **Lastname-Activity1.html** (using your last name).

Web-Based Application Design and Development (ITIS 3135)**Part 6: Log on to the web server with FileZilla and publish the html file.**

1. Make sure you are connected to the “**Eduroam**” network (if you are on UNCC campus) or connected through **VPN** (if you are outside the campus)
2. Open ‘**FileZilla**’.
 - a. Enter **webpages.charlotte.edu** as the Hostname, **22** as the port number and your 49er username and password. Click **Login**. Click **Yes** to accept the host key. Click **Continue**
 - b. In the left pane is a list of local folders and files. In the right pane is a list of your folders (directories) and files on the web server (For more information about FileZilla, please visit [https://wiki.filezilla-project.org/FileZilla_Client_Tutorial_\(en\)](https://wiki.filezilla-project.org/FileZilla_Client_Tutorial_(en)) and other relevant resources).
3. In the left pane, change folder (directory) location to your **Exercise** folder on your local computer using the navigation dropdown.
4. You should see the **Lastname-Activity1.html** file.
5. In the server pane on the right, double click on the **public_html** folder icon.
6. Create an **Exercise** folder on the web server under the **public_html** folder and open the folder:
 - a. Right click in the **public_html** in the **server** pane (right side of screen) → choose Create Directory → Name it **Exercise**
 - b. Double click the **Exercise** folder (this is where you will see the upload files after you complete step 7)
7. Now, in the local pane (left side of screen), right click the **Lastname-Activity1.html** file and select **upload**. Select **OK** in the **Upload** popup (or simply drag the file to the right pane).
8. Check that your file is available on the web server.
 - a. Open up **Chrome** web browser.
 - b. Type in <http://webpages.charlotte.edu/yourUsername/Exercise/Lastname-Activity1.html>
 - c. In the above URL the “yourUsername” should be replaced with your 49er username
 - d. Your browser should display the page (Note: Check spelling very carefully. The URL is case sensitive).
9. At the bottom of the screen, click on the validation link. Verify that there are no errors on the page. To validate your HTML and CSS page you can use either of the three methods- “By URI”(copy and paste specific file path on the server), “By file upload” (uploading the file), or “By direct input”(copy and paste the content of the file) on the validation link.
10. Disconnect your **FileZilla** ftp connection → **Server** → **Disconnect**

Part 7: Complete the following modifications.

1. Using an IDE (VS Code), open **Lastname-Activity1.html**.
 - a. Go to **File** → **Open** and navigate to **Exercise/Lastname-Activity1.html**. Select and open the file for editing.
2. Modify the page (file):
 - a. Replace the paragraphs about the professor with a small paragraph about you, and a small paragraph on why you choose this course and what are your strategies to be successful in this course. [These paragraphs help your TA and me, who will be grading your assignments in this course, to know you and help you succeed in this course]
 - b. Make sure that your new paragraphs start and end with **<p>** and **</p>** tag, respectively.
 - c. Make sure that your names are the first words in each paragraph and the name starts and ends with **** and ****.
 - d. Add **em** tag to emphasize on the reasons to choose this course

Web-Based Application Design and Development (ITIS 3135)

Hint: https://www.w3schools.com/tags/tag_em.asp

3. Save your file and preview it to see the changes.
4. Upload the modified file to the server.
5. Refresh your <http://webpages.charlotte.edu/yourUsername/Exercise/Lastname-Activity1.html> to see your changes.
6. Click on the **Validation** link. Verify that there are no errors on the page. If there are errors, fix them. Redeploy and check again. Verify that there are no errors on the page.

Part 8: Turn in your activity

1. Log in to **Canvas**.
2. Go to **Activity1 submission** and click on the link to start the submission page.
3. **Upload the html file to the submission page.**
4. After you save the file, click on “**Comments**” section on Canvas and in the textbox provide the URL of your **html** file on the web server. **You must provide the correct URL to get credit**