

COMP2245 - Lab 2 (20 marks)

Due Date: Sunday, October 9, 2022

Based on what you have learnt in your lectures and in your previous lab and tutorial on HTML and CSS, you are required to create a One Page Blog site using Hypertext Markup Language (HTML) and Cascading Stylesheets (CSS).

Using a text editor such as SublimeText, Atom, VS Code, Vim or similar, create an HTML document called **index.html** and load your CSS styles from an external stylesheet called **styles.css**.




If you need any free images or illustrations to use for this or any other lab you can look for some at <https://www.drawkit.io/>, <https://undraw.co/> or <https://unsplash.com/>.

Exercise 1: Create a new Git repository

1. You can create a new Github repository by going to <https://github.com/new> or by clicking the "+" icon in the top right once you are logged into the website and select "New Repository".
2. For this lab, use the repository name as **comp2245-assignment2**.
3. Ensure that your repository is *Public* and that you select the option to initialize the project with a README file.
4. The remaining options can be left at their defaults. Then click on **Create Repository**.


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Create a new repository


A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Owner 

Repository name 


 uwi-info2180

/


info2180-lab1

Great repository names are short and memorable. Need inspiration? How about [fuzzy-octo-palm-tree](#)?

Description (optional)

☒  Public

Anyone on the internet can see this repository. You choose who can commit.

☐  Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☒ Add a README file


This is where you can write a long description for your project. [Learn more](#).

☐ Add .gitignore

Choose which files not to track from a list of templates. [Learn more](#).

☐ Choose a license

A license tells others what they can and can't do with your code. [Learn more](#).

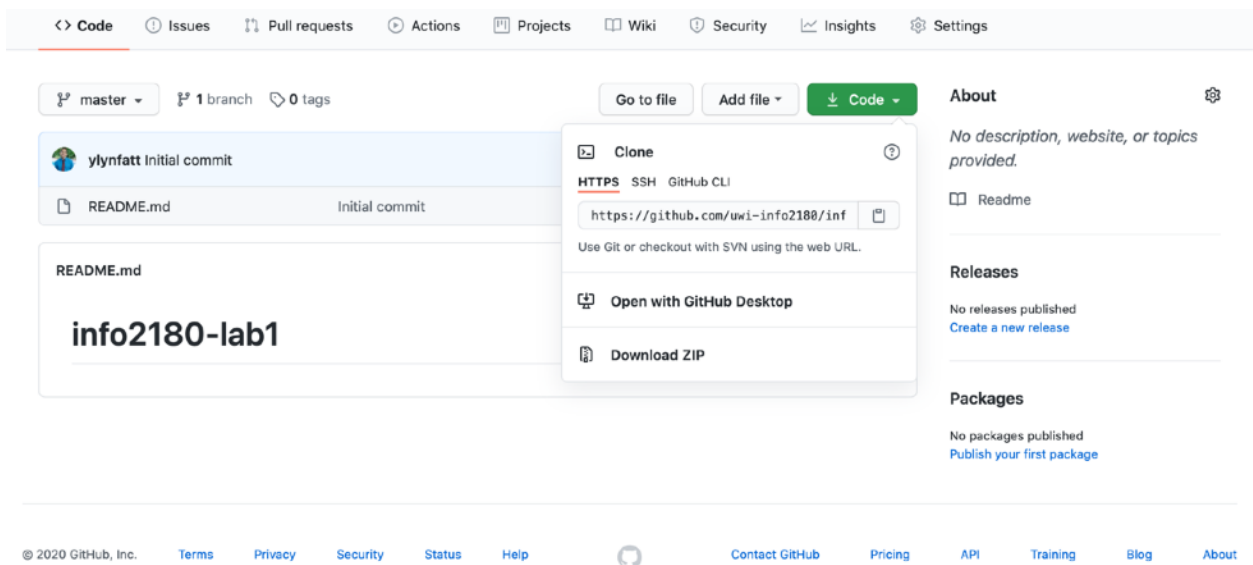
This will set  `main` as the default branch. Change the default name in [uwi-info2180's settings](#).

Create repository

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Exercise 2: Clone your repository to your computer

1. On your newly created repository, click on the "Code" button and copy the URL in the box that appears.



2. Open your command prompt, navigate to the folder (e.g. using the `cd` command) where you would like to clone your repository and using the URL you copied in step 1, type the following:

```
$ git clone https://github.com/uwi-comp2245/comp2245-assignment2.git
```

NOTE: Ensure you change the URL and use the one that you copied in Step 1.

3. Then navigate to your newly cloned repository by typing:

```
$ cd comp2245-assignment2
```

4. You can then type the command `ls` and you should see a `README.md` file.

Exercise 3: Edit the README.md file in the folder on your computer and push it to your Github Repo

1. Edit the file called README.md with your text editor of choice.
2. In the file add:

```
# COMP2245 Assignment 2
```

```
This is Assignment 2 for <Your Name>
```

Of course, change <Your Name> to your actual name.

3. Save the file and then at the command line (or Windows Powershell), type:

```
$ git add README.md  
$ git status
```

You should then see that the file has been staged.

4. Commit these changes to your local Git repository:

```
$ git commit -m "Edited README.md"
```

5. Check the status of your Git repository:

```
$ git status
```

It should now mention that there is nothing new to commit and that the

working tree is clean.

6. Great! Now we should push this information to GitHub.

```
$ git push
```

It may ask you to enter your Github username and password. Enter it and then press enter. If all goes well you can then view your Github repository on the Github website and you should see that the file exists on Github with the changes you made to the file.

7. To see the history of the commits you can run the following command:

```
$ git log
```

Exercise 4: Create an HTML file and a CSS file and push to your lab 2 repository.

Now we are going to create and style our webpage. The finished website should look similar to the Figure 1 below.

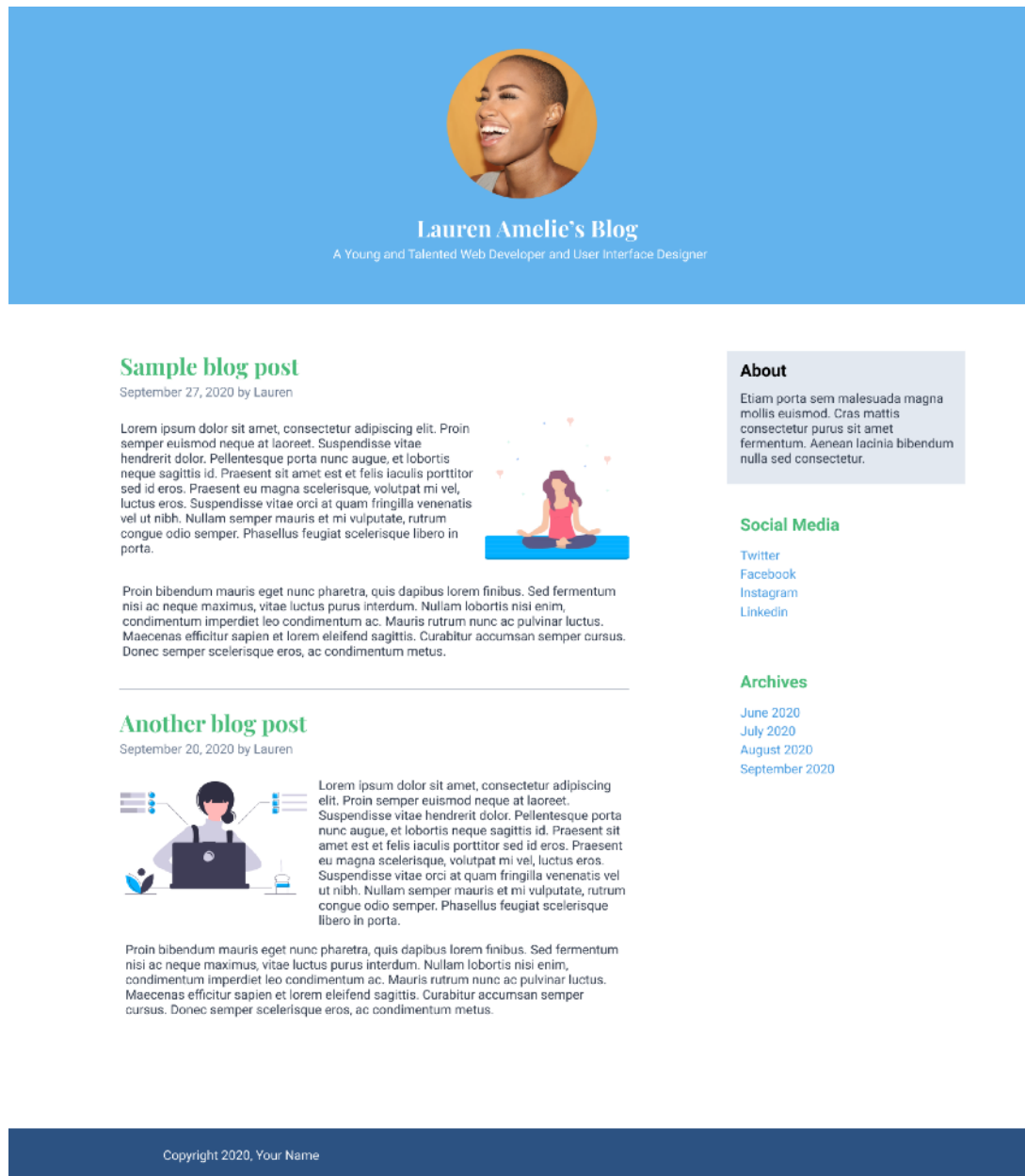


FIGURE 1: WIREFRAME OF YOUR ONE PAGE BLOG WEBSITE

1. Create a new branch from your master branch called "webpage".
2. Create a HTML file called "index.html" and a CSS file called "styles.css" file.

3. In your HTML file ensure you at least have the following to get you started:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>COMP2245 Assignment 2</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
<div class="container">
  <header>
    <h1>Your Name's Blog</h1>
    <p><!-- Put your one line statement or quote here --></p>
  </header>
  <main>
    <!-- This will contain your blog posts -->
  </main>
  <aside>
    <!-- This will be your sidebar -->
  </aside>
  <footer>
    <p>Copyright &copy; 2020, Your Name</p>
  </footer>
</div>
</body>
</html>
```

4. Now you will make modifications to your webpage. Your Blog website MUST have the following:

- A Header with your Full Name using an **<h1>** tag and a one line statement or quote (e.g. A Young and Talented Web Developer and User Interface Designer). The header should also have a picture of yourself. Try to use the **border-radius** property to get the circle effect around the image.
- The Main Content area should contain:
 - Two blog posts. Each should be placed within a **<article>** tag.
 - The title of the blog post should be placed in a **<h2>** heading.
 - The blog post should have the date and who the post was made by below the title. (e.g. *September 27, 2020 by John Doe*)
 - Each blog post should contain at least two paragraphs.
 - Each blog post should have an image floated either to the *left* or the *right* with the paragraphs wrapping around it.

Note: *You may need to make your paragraphs a bit longer in order to properly see the effect of the text wrapping around the image. Also don't make your images too big. You can set the height and width attributes on the image tag to make them smaller.*

- The Sidebar should contain:
 - 3 sections. One for *About*, *Social Media* and *Archives*.
 - The About section should contain a short paragraph about yourself. Don't make it too long, maybe a sentence or two.
 - The Social Media section should have links to your social media profiles using the appropriate **** and **** tags.
 - The Archives section should list links to at least four months worth of archives using the appropriate **** and **** tags. (These links do not need to go to an actual page.)
 - The headings for *About*, *Social Media* and *Archives* should use **<h3>** headings.

As it pertains to the layout, fonts and colour scheme:

- The default style for text should be a font size of 18px and have a text color of #2D3748 and the default font family should be:
-apple-system,BlinkMacSystemFont,"Segoe UI",Roboto,"Helvetica Neue",Arial,"Noto Sans",sans-serif.
- The website **MUST use CSS Grid** for the layout of the webpage. ie. to layout the Header, Sidebar, Main Content and Footer in a single grid.

Hint: You will need to define your grid and setup some grid template columns and rows and place each content area in the appropriate place in the grid to get the layout shown in Figure 1 above.

NOTE: You should NOT use HTML tables for the layout of this page. You will lose marks if you do so.

- Your Full Name and one line statement in the Header should use **CSS Flexbox** to *vertically* and *horizontally center* the text and image in the Header.
- The *background color* of your Header should be #63B3ED and the text color should be #FFFFFF.
- The h1 heading in the header should have a font size of 36px and font family of Georgia, 'Times New Roman', Times, serif.
- Your Blog Post titles should have a font size of 32px and a color of #48BB78.
- The Date and Author of the blog post should have a color of #718096.
- In the sidebar, the Social Media and Archives headings should have a text color of #48BB78. While the About heading should have text color

#000000. And the font family of these headings should be Georgia, 'Times New Roman', Times, serif.

- The About section should also have a background color of #E2E8F0. Add some padding on all sides as well so that the text doesn't stick to the edge of the container.
- The Social Media and Archive links should have a text color of #4299E1.
- The Footer should have a background color of #2C5282 and the text color should be #FFFFFF.
- It must display and work properly in Google Chrome, Mozilla Firefox and Microsoft Edge.

5. Ensure you add, commit and push your code to your Github repository.

If you get an error about that the current branch does not have an upstream branch, you may need to run the following command:

```
$ git push --set-upstream origin webpage
```

6. If you need to make any additional changes, do so and then add, commit and push your code to your Github repository once again.

7. When you are done and are sure everything is working, switch back to your master branch and then merge the changes you made in your "webpage" branch back into your master branch. Then ensure you push those changes back to your Github repository.

Submission

Submit this lab via OurVLE using the "Lab 2 Submission" link. The following information must be submitted:

1. Locate your Github repository URL and Copy the URL. It should be in the format <https://www.github.com/your-user-name/comp2245-assignment2>. For example, if your username is **johndoe**, then the URL you will need to submit is <https://www.github.com/johndoe/comp2245-assignment2>.