# Task 1: Designing a Thematic Profile Page

# **Objective:**

Develop a profile page using HTML and CSS to showcase your ability to apply various CSS properties effectively. This project will focus on colors, backgrounds, borders, fonts, cursor styles, z-index, and different units of measurement to enhance the webpage's design and user interaction.

## **Pre-requisites:**

- Basic understanding of HTML elements and CSS properties
- Familiarity with a code editor like Visual Studio Code

## **Concepts Covered:**

- CSS Colors and Backgrounds
- CSS Borders and Fonts
- CSS Cursor Styles
- Understanding z-index
- Units in CSS

#### **Concepts:**

#### 1. CSS Colors and Backgrounds:

Apply different color properties to elements using color names, RGB, and hexadecimal values. Experiment with background color and background image properties.

```
body {
    background-color: #f0f0f0;
    color: #333;
}
.header {
    background-image: url('background.jpg');
    background-size: cover;
    background-repeat: no-repeat;
}
```

# 2. CSS Borders and Fonts:

Customize borders of elements using border styles, widths, and colors. Change the font type, size, and style of textual content.

```
.profile-pic {
    border: 2px solid #ff5733;
    border-radius: 50%;
}
h1 {
    font-family: 'Arial', sans-serif;
    font-size: 2em;
}
```



## 3. CSS Cursor Styles:

Modify the cursor appearance on hovering over elements using various cursor properties like pointer, default, help, etc.

```
a {
    cursor: pointer;
}
.help-text {
    cursor: help;
}
```

## 4. Understanding z-index:

Use z-index to control the stacking order of positioned elements (like position: absolute; or position: relative;).

```
.hero {
    position: relative;
    z-index: 1;
}
.overlay {
    position: absolute;
    z-index: 2;
}
```

# 5. Units in CSS:

Experiment with different units for specifying size, such as pixels (px), ems, rems, percentages (%), and viewport units (vw, vh).

```
.container {
    width: 80%;
    max-width: 1200px;
    margin: 0 auto;
}
.text {
    font-size: 1.5rem;
}
```

## Setup:

## 1. Install Visual Studio Code (VS Code):

Download and install VS Code from Visual Studio Code.

# 2. Web Browsers:

Use Google Chrome or Mozilla Firefox for viewing your webpage and utilizing their developer tools for debugging.

#### Tasks:



## 1. CSS Colors and Backgrounds:

- Apply different color properties to elements using color names, RGB, and hexadecimal values.
- Experiment with background color and background image properties.

#### 2. CSS Borders and Fonts:

- Customize borders of elements using border styles, widths, and colors.
- Change the font type, size, and style of textual content.

#### 3. CSS Cursor Styles:

 Modify the cursor appearance on hovering over elements using various cursor properties like pointer, default, help, etc.

## 4. Understanding z-index:

• Use z-index to control the stacking order of positioned elements (like position: absolute; or position: relative;).

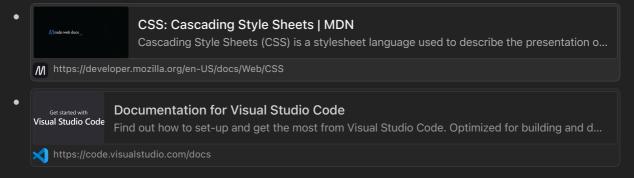
#### 5. Units in CSS:

• Experiment with different units for specifying size, such as pixels (px), ems, rems, percentages (%), and viewport units (vw, vh).

#### Instructions:

- 1. Write the required code in index.html and styles.css.
- 2. Open the index.html file in your web browser to ensure the code displays correctly.
- 3. Use the browser's developer tools to debug and inspect the elements.

#### **Resources:**



## Videos:



#### **GitHub Instructions:**

#### 1. Open in Visual Studio Code:

After clicking on the "Open in Visual Studio Code" button from the GitHub Classroom confirmation page, VSCode will open the repository directly. If prompted, select "Open" or "Allow" to open the repository in VSCode.

## 2. Open the Terminal in VSCode:

In VSCode, open a terminal by selecting Terminal > New Terminal from the top menu.

## 3. Complete the Task:

In VSCode, write your solution in the index.html and styles.css files.

#### 4. Run and Test Your Code:

Open your index.html file in a web browser to ensure it works correctly. Use the following command:

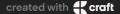
open index.html

# 5. Commit Your Changes:

In the VSCode terminal, add your changes to git:

git add index.html styles.css

Commit your changes with a meaningful message:



```
git commit -m "Completed task 1"
```

# 6. Push Your Changes to Your Repository:

Push your changes to your forked repository:

```
git push origin main
```

## 7. Create a Pull Request:

Go to your repository on GitHub.

Click on the "Pull Requests" tab.

Click the "New Pull Request" button.

Ensure the base repository is the original template repository and the base branch is main.

Ensure the head repository is your forked repository and the compare branch is main.

Click "Create Pull Request".

Add a title and description for your pull request and submit it.

## **Summary of Commands:**

```
# Open in Visual Studio Code

# Open terminal in VSCode

# Complete the task by editing index.html and styles.css

# Navigate to the directory containing index.html
cd path/to/your/index.html

# Run your code
open index.html

# Add, commit, and push your changes
git add index.html styles.css
git commit -m "Completed task 1"
git push origin main

# Create a pull request on GitHub
```

