Cybersecurity

Activity File

Activity File: Creating a website with Copilot

In this activity, you will play the role of a junior web engineer for GoodCorp, and will create a new web application front end.

- GoodCorp wants a basic front end that will have an HTML page, CSS styling, and a JavaScript file.
- There will be guide points throughout the activity to help you.
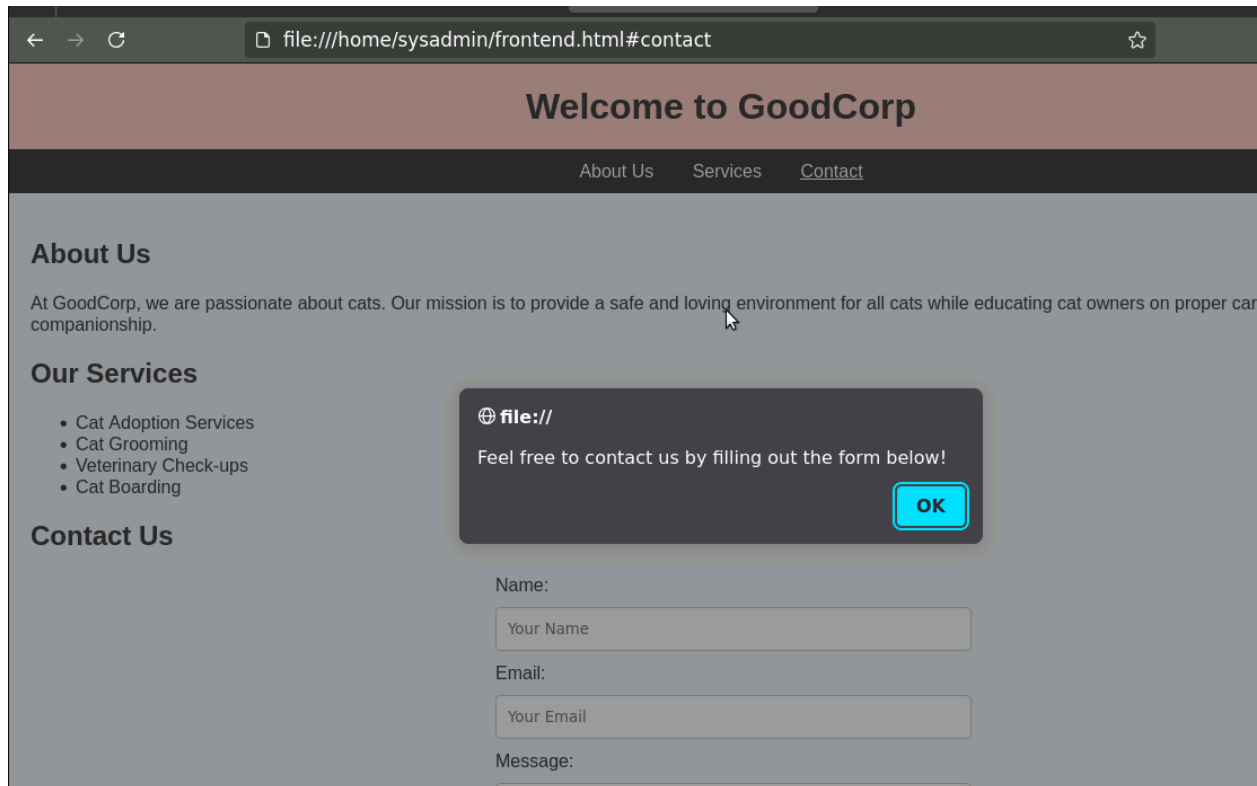

Instructions

1. Using GitHub Copilot, have it create an initial HTML front end.
   a. The page should include an "About us," "Contact," and "Services" section.
   b. Save your page as "frontend.html."

Cascading Style Sheets (CSS) files are used to format a web page. They contain settings and configurations on th4 font, colors, sizing, etc. to use on a page. CSS files are separate from the HTML frontend files, but the HTML files will reference the CSS file.

2. Open a new text file and have Copilot create a CSS file. Save this file as "'style.css," Make sure you save it in the same location as "frontend.html."
3. Click back to the "frontend.html" file tab in VS Code. Open a new Copilot prompt (Ctrl+i) and tell it to "Edit this file to add CSS from 'style.css.'"

Finally, GoodCorp wants a popup whenever someone clicks on the "Contact us" link.

4. In the frontend.html file tab, open a new Copilot prompt and ask it to "Add a JavaScript popup to the 'Contact us' link."
5. Save the file again and open it in a browser. When you click on the "Contact us" page, it should display a JavaScript popup.

HTML File

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>GoodCorp</title>

  <!-- Link to the external CSS file -->

  <link rel="stylesheet" href="style.css">

  <script>

    // JavaScript function to show a popup

    function showContactPopup() {

```
        alert("Feel free to contact us by filling out the form below!");

    }

  </script>

</head>

<body>

  <header>

    <h1>Welcome to GoodCorp</h1>

  </header>

  <nav>

    <a href="#about-us">About Us</a>

    <a href="#services">Services</a>

    <!-- Add an onclick event to the Contact link -->

    <a href="#contact" onclick="showContactPopup()">Contact</a>

  </nav>

  <main>

    <section id="about-us">

      <h2>About Us</h2>

      <p>At Cat Haven, we are passionate about cats. Our mission is to provide a safe and
loving environment for all cats while educating cat owners on proper care and
companionship.</p>

    </section>

    <section id="services">

      <h2>Our Services</h2>

      <ul>

        <li>Cat Adoption Services</li>
```

```html
                <li>Cat Grooming</li>

                <li>Veterinary Check-ups</li>

                <li>Cat Boarding</li>

            </ul>

        </section>

        <section id="contact">

            <h2>Contact Us</h2>

            <form class="contact-form">

                <label for="name">Name:</label>

                <input type="text" id="name" name="name" placeholder="Your Name" required>


                <label for="email">Email:</label>

                <input type="email" id="email" name="email" placeholder="Your Email" required>


                <label for="message">Message:</label>

                <textarea id="message" name="message" rows="5" placeholder="Your Message" required></textarea>


                <button type="submit">Send Message</button>

            </form>

        </section>

    </main>

    <footer>

        <p>&copy; 2025 Cat Haven. All rights reserved.</p>

    </footer>
```

```html
</body>

</html>
```

CSS FILE

```css
/* General Styles */

body {

    font-family: Arial, sans-serif;

    margin: 0;

    padding: 0;

    background-color: #f9f9f9;

    color: #333;

}


/* Header */

header {

    background-color: #ffcccb;

    padding: 20px;

    text-align: center;

}


header h1 {

    margin: 0;

}


/* Navigation Bar */
```

```css
nav {

    background-color: #333;

    color: white;

    padding: 10px;

    text-align: center;

}


nav a {

    color: white;

    margin: 0 15px;

    text-decoration: none;

}


nav a:hover {

    text-decoration: underline;

}


/* Main Content */

main {

    padding: 20px;

}


section {

    margin-bottom: 20px;
```

```css
}


/* Footer */

footer {

    background-color: #333;

    color: white;

    text-align: center;

    padding: 10px;

    position: fixed;

    bottom: 0;

    width: 100%;

}


/* Contact Form */

.contact-form {

    max-width: 400px;

    margin: 0 auto;

}


.contact-form input, .contact-form textarea {

    width: 100%;

    padding: 10px;

    margin: 10px 0;

    border: 1px solid #ccc;
```

```css
        border-radius: 5px;

    }


    .contact-form button {

        background-color: #ffcccb;

        border: none;

        padding: 10px 20px;

        cursor: pointer;

        border-radius: 5px;

    }


    .contact-form button:hover {

        background-color: #ff9999;

    }
```