

Simple Frontend Web Page and Testing

HTML

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title>User Greeting Page</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>

    <div class="container">
      <h2>Welcome</h2>
      <input type="text" id="username" placeholder="Enter your
          name">
      <button onclick="greetUser()">Submit</button>
      <p id="message"></p>
    </div>

    <script src="script.js"></script>
  </body>
```

```
</html>
```

CSS

```
body {  
    font-family: "Times New Roman";  
    background-color: #f4f4f4;  
}  
  
.container {  
    width: 300px;  
    margin: 100px auto;  
    padding: 20px;  
    background-color: #ffffff;  
    text-align: center;  
    border-radius: 5px;  
}  
  
input {  
    width: 90%;  
    padding: 8px;  
    margin-bottom: 10px;  
}  
  
button {  
    padding: 8px 15px;  
    cursor: pointer;  
}
```

JavaScript

```
function greetUser() {  
    var name = document.getElementById("username").value;  
    var message = document.getElementById("message");  
  
    if (name === "") {  
        message.textContent = "Please enter your name.";  
        message.style.color = "red";  
    } else {  
        message.textContent = "Hello, " + name + "! Welcome.";  
        message.style.color = "green";  
    }  
}
```

Frontend Testing

Possible User Errors

- Clicking the submit button without entering any name.
- Entering invalid input such as blank spaces.

Test Cases

Empty Input Test

The input field is left empty and the submit button is clicked.

Expected Outcome: The system displays an error message requesting the user to enter a name.

Valid Input Test

A valid name is entered and the submit button is clicked.

Expected Outcome: The system displays a greeting message containing the user's name.

Role of Testing

Frontend testing helped verify that the web page responds correctly to both valid and invalid user inputs. It ensured proper input validation and prevented incorrect or misleading output. This improved the correctness of the application and made user interaction clearer and more reliable.