

# HTML Forms

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Department of Computer Science  
SIUE

# Designing interactive pages

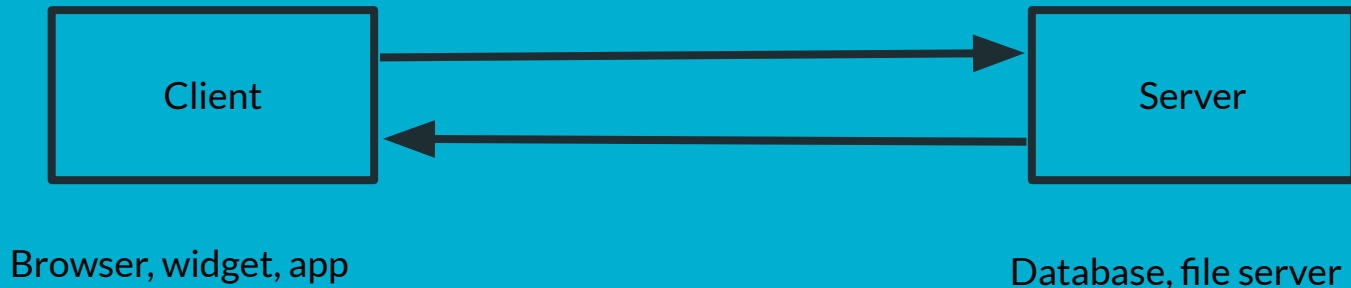
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- Clicking on links and buttons
  - Clicking on a link (URL) and the information is fetch from the server
- Able to record user input
- Entering data into a webpage
- Sending the user data to the server
- Responding to user input
- Storing users information
- etc.

# Communication

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- Two way communication
- Request and response
- Upload and download
- Why download speed is more than the upload speed



# HTML forms

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- An HTML form is a section of a web page that allows users to enter data that is sent to a server for processing, usage-
  - Collecting feedback
  - Registering users
  - Logging in to a website
- Forms can resemble paper or database forms because web users fill out the forms using checkboxes, radio buttons, or text fields
- The `<form>` element is used to create an HTML form
- The `<form>` element has a number of attributes that can be used to control the behavior of the form
  - **action** attribute: specifies the URL that the form data is sent
  - **method** attribute: which specifies the HTTP method that is used to send the form data

# HTML form

## index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>GET Method Form</title>
</head>
<body>
  <h1>GET Method Form</h1>

  <form action="process.php" method="get">
    <!-- Text Input -->
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" placeholder="Enter your name" required>
    <br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" placeholder="Enter your email" required>
    <br>

    <!-- Submit Button -->
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

# Label and input tags attributes

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- label:

- The **for** attribute in the <label> element specifies the **id** of the form element that the label is associated with  
`<label for="name">Name:</label>`

`<input type="text" id="name" name="name" placeholder="Enter your name" required>`

- input:

- The **type** attribute determines what kind of data the user can input and how the input is presented
  - text, password, email, number, checkbox, radio, submit, reset
- The **id** attribute provides a unique identifier for the input element within the HTML document
  - When used with a <label> element, **for** attribute of the label can be set to match the id of the input element
  - Useful for CSS and javascript
- The **name** attribute is used to identify the data associated with that input field when the form is sent to the server
  - The name attribute is essential for server-side processing of form data

- placeholder: provides a brief, typically instructional, hint or example text

# The backend code

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## process.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>GET Method Form - Submission Result</title>
</head>
<body>
    <h1>GET Method Form - Submission Result</h1>
    <?php
        if (isset($_GET["name"])) {
            $name = $_GET["name"];
            $email = $_GET["email"];

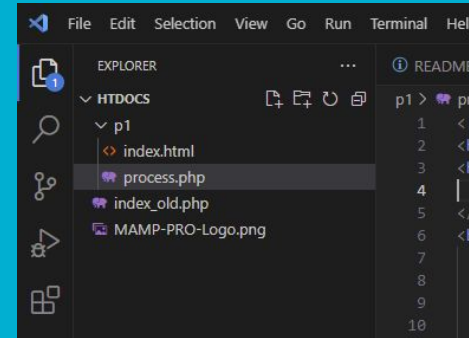
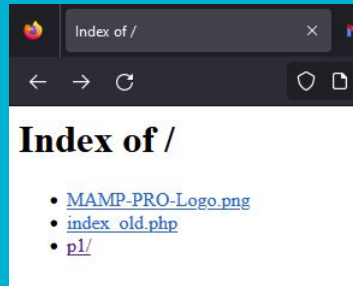
            echo "<p><strong>Name:</strong> $name</p>";
            echo "<p>Email: $email</p>";

        } else {
            echo "<p>No data submitted.</p>";
        }
    ?>
</body>
</html>
```

# To run front end and php backend

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- Run the MAMP
- Look at the port number
- Create your files under **htdocs** folder which is under your MAMP installation location
- Write the code under **htdocs/p4** in vscode
- Go to **localhost:80** (use your port number)
- Click on the folder here **p1**
- **IP:port**





# Form tag

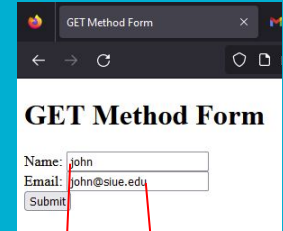
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- `<form> ... </form>`
- action attribute `<form action="process.php">`
- The action attribute in the `<form>` element specifies where the form data is sent when the form is submitted
- The value of the action attribute can be an absolute URL or a relative URL
- Here relative URL `<form action="process.php">`
-

# Form tag

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- method attribute: `<form action="process.php" method="get">`
- The GET method appends the form data to the URL of the form's action attribute
- This means that the form data is visible in the URL bar of the browser
- The GET method is also limited in the amount of data that can be sent

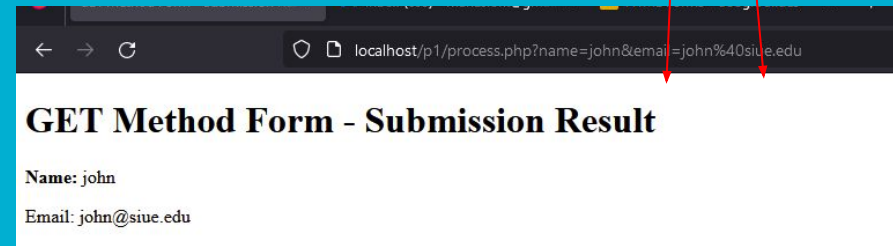


GET Method Form

Name: john

Email: john@siue.edu

Submit



# Form tag

## index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>POST Method Form</title>
</head>
<body>
  <h1>GET Method Form</h1>

  <form action="process.php" method="post">
    <!-- Text Input -->
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" placeholder="Enter your name" required>
    <br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" placeholder="Enter your email" required>
    <br>
    <input type="submit" value="Submit">

  </form>
</body>
</html>
```

## process.php

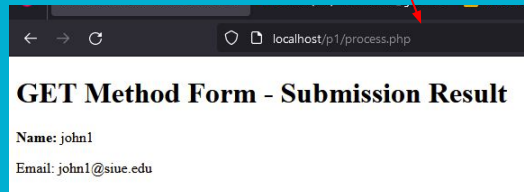
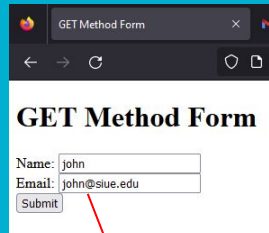
```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>GET Method Form - Submission Result</title>
</head>
<body>
  <h1>GET Method Form - Submission Result</h1>

  <?php
  if ($_SERVER["REQUEST_METHOD"] === "POST") {
    $name = $_POST["name"];
    $email = $_POST["email"];

    echo "<p><strong>Name:</strong> $name</p>";
    echo "<p>Email: $email</p>";

  } else {
    echo "<p>No data submitted.</p>";
  }
  ?>

</body>
</html>
```



# Radio buttons

---

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>GET Method Form</title>
</head>
<body>
  <h1>GET Method Form</h1>

  <!-- The form element with method="get" -->
  <form action="process.php" method="get">

    <!-- Radio Buttons -->
    <label>Gender:</label>
    <input type="radio" id="male" name="gender" value="Male">
    <label for="male">Male</label>
    <input type="radio" id="female" name="gender" value="Female">
    <label for="female">Female</label>
    <input type="radio" id="other" name="gender" value="Other">
    <label for="other">Other</label>
    <br>
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

# Checkbox

---

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>GET Method Form</title>
</head>
<body>
  <h1>GET Method Form</h1>

  <!-- The form element with method="get" -->
  <form action="process.php" method="get">

    <!-- Checkbox -->
    <input type="checkbox" id="subscribe" name="subscribe" value="yes">
    <label for="subscribe">Subscribe to newsletter</label>
    <br>

    <!-- Submit Button -->
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

# Select dropdown

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- input tag is not used here

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>GET Method Form</title>
</head>
<body>
  <h1>GET Method Form</h1>

  <!-- The form element with method="get" -->
  <form action="process.php" method="get">

    <!-- Select Dropdown -->
    <label for="country">Country:</label>
    <select id="country" name="country">
      <option value="usa">United States</option>
      <option value="canada">Canada</option>
      <option value="uk">United Kingdom</option>
      <option value="other">Other</option>
    </select>
    <br>

    <!-- Submit Button -->
    <input type="submit" value="Submit">

  </form>
</body>
</html>
```

# Text area

---

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>GET Method Form</title>
</head>
<body>
  <h1>GET Method Form</h1>

  <!-- The form element with method="get" -->
  <form action="process.php" method="get">

    <!-- Text Area -->
    <label for="comments">Comments:</label>
    <textarea id="comments" name="comments" rows="15" cols="50" placeholder="Enter your comments"></textarea>
    <br>

    <!-- Submit Button -->
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

# Thank you

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See you all in the next class...