Web Engineering & Development (SWE 363)

2.2 More HTML (Hypertext Markup Language)

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Announcements <

- We allow teams of 4 but with higher expectations
- Graders assigned and will be looking into your code

In today's Lecture:

- Links
- Containers
- Forms
- Form Widgets

Reference:

• Zybook: 2.6 to 2.7

Links

Connect different pages together

a simple Link

Link

A link with an image

Board activity:

How can we link to a page located in the same directory?

Containers

grouping elements together

Common Container tags

- <header> : Header
- <main> : Main Content
- <section> : Section
- <article> : Article
- <footer> : Footer
- <nav> : Navigation
- <div>: Division
- : Span

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Messy Code Example

<html>=/head>=ctitle>My Page</title>=/nead>=cbody>=/hl>@locome</hl>=/ps>This is a paragraph with no spacing or proper indentation making it very hard to read and maintaine/p>=/div=up>=/link.html">Click heree/a>=ling src="image_jpg" alt="image">=script>function doSomething(){var x=1;var y=2;var result=x+y;return result]></script>=/locome

Board Challenge:

How would you structure this page using containers?

Clean Code Example

```
<!DOCTYPE html>
                                   <html lang="en">
                                        <head>
                                  <meta charset="UTF-8">
            <meta name="viewport" content="width=device-width, initial-scale=1.0">
                                  <title>My Page</title>
                                        </head>
                                        <body>
                                         <header>
                                       <h1>Welcome</h1>
                                         </header>
                                          <main>
This is a paragraph with proper spacing and indentation, making it easy to read and maintain.
                                   <section class="content">
                                               ul>
                                           Item 1
                                           Item 2
                                           Item 3
                                              </section>
                               <a href="link.html">Click here</a>
                       <img src="image.jpg" alt="Descriptive image text">
                                         </main>
                                 SWE 36%/p25y>Sec 3 | KFUPM
                                        </html>
```

Block vs Inline Elements

- Block: Takes up the full width of the container: <div>, <section>, <article>, <header>, <footer>, , <h1>, <h2>, <h3>, <h4>, <h5>, <h6>
- Inline: Takes up only the width of the content: , <a> , , ,

Forms

Make website interactive

A simple form

action: The URL where the form data will be sent

method: The HTTP method to use (POST or GET)

input: The input field where the user will enter the data

submit: The button that will submit the form

Get vs Post

- Get: Sends the data in the URL
- Post: Sends the data in the body of the request

Data look like:

Client Request

GET /process_form.php?name=John

POST /process_form.php

Data (key-value pairs)

name=John

Server Response

Common Form Widgets (Elements)

- <input> : Input (text, password, email, number, etc.)
- <select> : Select (dropdown menu)
- <textarea> : Textarea (large text field)
- <button> : Button (submit, reset, etc.)
- <checkbox> : Checkbox (multiple choice)
- <radio> : Radio (single choice)
- <submit>: Submit (submit the form)
- <reset> : Reset (reset the form)

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Let's build a social media app

Starter code at: github.com/Web-Engineering-KFUPM/2.2_social_media_app

Next Class

• Basics of CSS