Module II: Basic web elements

HTML5 - Page Layout Semantic Elements and Web Form

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TLO-5, TLO-6



- ✓ Basic web elements using HTML and HTML5
- ✓ Implement web forms, media, storage, and geolocation features using HTML5.

Session Activity

- ✓ Apply the HTML5 semantic elements
- ✓ Design web form using web form attributes

Keywords



HTML5



- ✓ HTML5 is the latest and most enhanced version of HTML. Technically, HTML is not a programming language, but rather a Mark-up language
- ✓ HTML5 is a cooperation between the World Wide Web Consortium (W3C) and the Web Hypertext Application Technology Working Group (WHATWG).
- ✓ HTML5 introduces a number of new elements and attributes that can help you in building modern websites. Here is a set of some of the most prominent features introduced in HTML5.

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https://tutorialspoint.com/html5/html5_overview.htm

HTML5 New Features



- ✓ New Semantic Elements These are like <header>, <footer>, and <section>.
- ✓ Forms 2.0 Improvements to HTML web forms where new attributes have been introduced for <input> tag.
- ✓ Persistent Local Storage To achieve without resorting to third-party plugins.
- ✓ WebSocket A next-generation bidirectional communication technology for web applications.
- ✓ Server-Sent Events HTML5 introduces events which flow from vare called Server-Sent Events (SSE).
- ✓ Canvas This supports a two-dimensional drawing surface that you can program with JavaScript.

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https://www.tutorialspoint.com/html5/html5_overview.htm

HTML5 New Features



- ✓ Audio & Video You can embed audio or video on your webpages without resorting to third-party plugins.
- ✓ Geolocation Now visitors can choose to share their physical location with your web application.
- ✓ Microdata This lets you create your own vocabularies beyond HTML5 and extend your web pages with custom semantics.
- ✓ Drag and drop Drag and drop the items from one location to another location on the same webpage.

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HTML5 Document



The following tags have been introduced for better structure –

- ✓ section This tag represents a generic document or application section. It can be used together with h1-h6 to indicate the document structure.
- ✓ article This tag represents an independent piece of content of a document, such as a blog entry or newspaper article.
- \checkmark aside This tag represents a piece of content that is only slightly related to the rest of the page.
- ✓ header This tag represents the header of a section.
- ✓ footer This tag represents a footer for a section and can contain information about the author, copyright information, et cetera.
- \checkmark nav This tag represents a section of the document intended for navigation.
- ✓ dialog This tag can be used to mark up a conversation.
- ✓ figure This tag can be used to associate a caption together with some embedded content, such as a graphic or video.

HTML5 tags Example



```
<!DOCTYPE html>
<html>
    <head>
        <meta charset = "utf-8">
        <title>...</title>
        </head>
<body>
        <header>...</header>
        <nav>...</nav>
```



Web Forms 2.0



✓ Web Forms 2.0 is an extension to the forms features found in HTML4. Form elements and attributes in HTML5 provide a greater degree of semantic markup than HTML4 and free us from a great deal of tedious scripting and styling that was required in HTML4.





Button



- ✓ name: Defines the unique identifier for that button within the form. example name="submit_button"
- ✓ value: The value sent to the server when submitting the form.

 Example value="primary" (The server will receive the value primary.)
- ✓ type: Defines the button type.

Example type= "submit" (The button sends the form data to the server)
"reset" The button resets the form.

Example type="Reset"

- ✓ disabled Disables the button.
- ✓ autofocus:Sets focus on the element when the web page loads.

Registration button

<button name="Singup" value="primary"
type="submit" autofocus > Registration
button </button>

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Form fieldset



Fieldset: Defines a group of controls within a form.

```
Synext

<fieldset>

<legend> .....

here will design form controls

</legend>

</fieldset>
```

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```
Subscribe to the Newsletter

Email ID Ok
```

Web Forms Input



- ❖ Input: Defines an interactive control within a web form.
- ✓ type:Defines the type of form input.

"text" Simple single line text input that accepts any type of character "email" a text input, but the browser will try to only allow valid email "number" Like a text input, but the browser will try to only allow valid numbers.

"checkbox": A toggle checkbox that can only be one of two states "radio": Needs to be used used in combination with other radio buttons

Syntex:

<input type="text" name="first-name" placeholder="e.g Pema" required>

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Web Forms Input



❖ Input: textarea: Defines a multi-line text control within a web form.

Attributs

- ❖ name="Message"
- autocomplete="on"
- ❖ minlength="15"
- ❖ maxlength="200"
- placeholder="e.g hello my name is Sunil"
- ❖ wrap="soft"
- spellcheck
- * required
- disabled
- * autofocus
- * Readonly
- * Row
- Col

Syntex:

<textarea name="Message" maxlength="200" spellcheck
placeholder="e.g hello my name is sunil">

</textarea>

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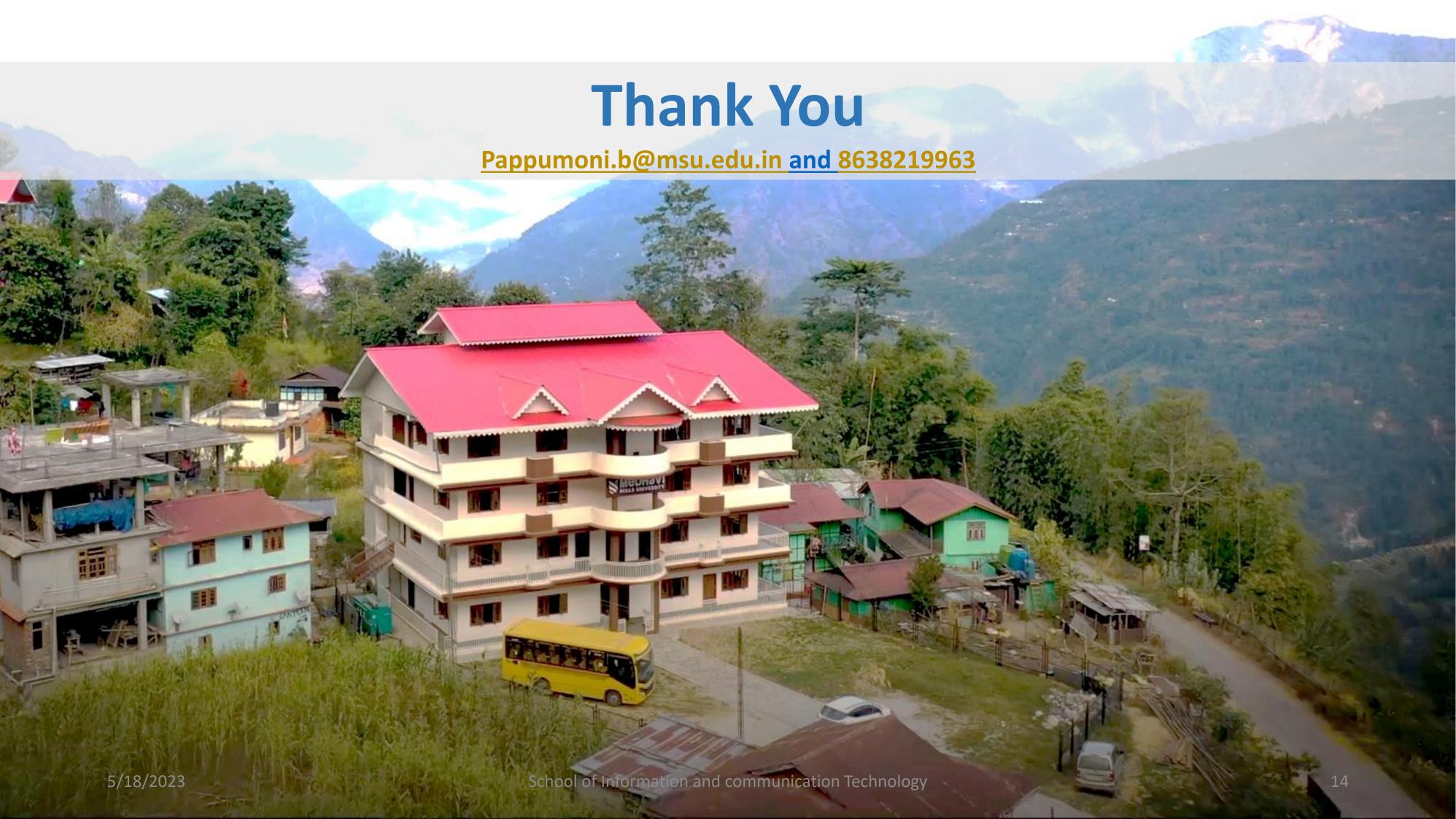
Practical Task for Lab



Implement the below task using HTML5 tags and its attributes in webpage.

- 1. Create a web form of student registration using html 5.
- 2. Crate a web form of user login and registration using html 5 and its attributes





Reference



- 1. https://www.w3schools.com/tags/tag iframe.ASP
- 2. https://www.javatpoint.com/html-iframes

