

Course Outline

Part 1: Front End

- Web Structuring with HTML
- Web Styling with CSS
- Dynamic Client-side Scripting with JavaScript
- Bootstrap fundamentals
- UI/UX Design

Part 2: Back End

- Python Fundamentals
- Django Framework
- Deployment

```
__modifier_ob__
mirror object to mirror
mirror_object
peration == "MIRROR_X":
irror_mod.use_x = True
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 _operation == "MIRROR_Y"
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    vpes.Operator):
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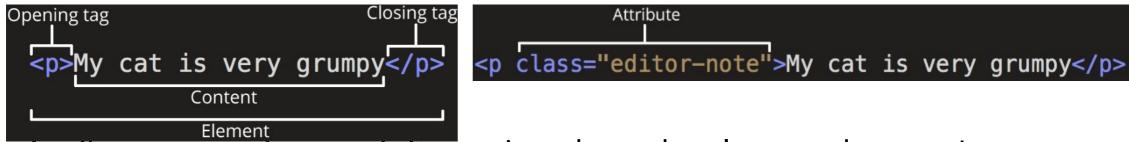
PART 1: HTML

HyperText Markup Language

HTML (Hypertext Markup Language)

- It is a markup language that tells web browsers how to structure the web pages you visit.
- HTML consists of a series of elements enclosed in tags
- Example:
 - <title><title>, , <section></section>
- Note: Tags in HTML are case-insensitive.

Anatomy of an HTML element



- Attributes: contain extra information about the element that won't appear in the content.
 - Eg:
- Nested Elements:
 - Elements can be placed within other elements. This is called nesting
- Block versus inline elements
 - A **block-level element** appears on a new line following the content that precedes it.
 - Eg: , <h1>
 - An **inline element** will not cause a new line to appear in the document
 - Eg: ,

HTML Structure

- Head
 - title
 - Meta
 - link
- Body

```
<! DOCTYPE html>
<html>
 <head>
    <meta charset="utf-8">
    <title>My test page</title>
 </head>
  <body>
    This is my page
 </body>
</html>
```

Environment Setup

• Editors:

- VS code: https://code.visualstudio.com/
- Sublime Text: https://www.sublimetext.com/
- Atom: https://atom.io/

• IDE:

• WebStorm: https://www.jetbrains.com/webstorm/

• VS Code Extensions:

- Html CSS support
- Html snippets
- Live server
- Prettier

Version Control System

• Git: https://git-scm.com/

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HTML Text

- Headings (h1....h6)
- Paragraphs
- Lists
 - Ordered (ol)
 - Unordered (ul)
 - Definition list (dl)
 - Nested List
- Emphasis and Importance (em, strong, bold, I, u,..)

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Hyperlinks

- Hyperlinks allow us to link documents to other documents or resources, link to specific parts of documents, or make apps available at a we creating a link to
- Anatomy of links the Mozilla homepage.
- Types links:
 - Internal links, External links and bookmarks
- "target " Link attributes: The target attribute specifies where to open the linked document
- Absolute URLs vs. Relative URLs
- Any web content can be converted into links (images are most used)Absolute URLs vs. Relative URLs

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Semantic Web

- HTML elements for semantic web
- <main>
- <article>
- <section>
- <aside>
- <header>
- <nav>
- <footer>

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HTML multimedia

- Images in HTML
 - , <figure>
- Video and audio Content
 - <audio>, <video>
- Embedding tags
 - <iframe>, <embed>, <object>

HTML Tables

- HTML tables allow web developers to arrange data into rows and columns.
- The tag defines an HTML table.
- Each table row is defined with a
 tag. Each table header is defined with a tag. Each table data/cell is defined with a tag.
- By default, the text in elements are bold and centered.
- By default, the text in elements are regular and left-aligned.
- Spans: used To make a cell span more than one row/column
 - Rowspan
 - Colspan
- It's also possible to nest tables

```
Firstname
 Lastname
 Age
Jill
 Smith
 50
Eve
 Jackson
 94
```

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HTML Forms

- The HTML <form> element is used to create an HTML form for user input:
- The <form> element is a container for different types of input elements
- The HTML <input>
 element is the most used
 form element.

Туре	Description
<input type="text"/>	Displays a single-line text input field
<input type="radio"/>	Displays a radio button (for selecting one of many choices)
<input type="checkbox"/>	Displays a checkbox (for selecting zero or more of many choices)
<input type="submit"/>	Displays a submit button (for submitting the form)
<input type="button"/>	Displays a clickable button

```
<form>
<label for="fname">First name:</label><br>
<input type="text" id="fname" name="fname"><br>
<label for="lname">Last name:</label><br>
<input type="text" id="lname" name="lname"></form>
```

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Questions?

References

- https://developer.mozilla.org/en-US/docs/Learn/HTML
- https://www.w3schools.com/html/default.asp