WEB DEVELOPEMNT

Web development is a way in which we can design the web pages and make our website accessible to the outside world.

**The components of web development:**

**1.html:** this is the basic structure just like a human body has a skeleton system which tells the structure of the body.

**2.CSS:** this is the designing of the website which specifies how the look and feel of the website should be.Consider it to be the skin on human skeleton system,the muscles and the other things which gives design to the human body structure

**3.Javascript:J** javascript is the scripting languga e which acts as the brain.It will help us perform some actions.

**How does website work:**

1.Chrome send request to the server where the website which we have built is stored.

2.the server will check the domain address and will send back the requested files.it will send back the html,css and js files which will be read by the browser and required actions will be performed at the browser side.

WORKING WITH HTML

**We can work with html tags in this section.**

**We will be using**  visual studio code for this.

So to get boiler plate code in html file.

Do ! +Enter

We do this with help of emmet plugin

[Cheat Sheet (emmet.io)](https://docs.emmet.io/cheat-sheet/)

**Basic html**

|  |  |
| --- | --- |
| Headings | <h1biggest to h6 smallest) |
| Lorem50 +Enter | will give you a 50 word paragraph |
| **Html entities** | These are the one which start with special symbols sucha s &nbsp for space  &< for a < sign. |
| **Html attributes**  **Different attributes** | Each of the element in html has some attributes.  1.id:This is unique for each element 2.class:can be sam for many elements. |
| **LISTS** | Ol ordered list and unordered list |
| **Hyperlink** | <a href="https://www.google.com" target="blank">Google</a>//ref to some outside website…target=blank tells to open in a new tab  <br>  <a href="page2.html">Page2</a>//ref to some internal website page(page2.html) |
| **image** | We mention the image src,width,alt(alternate text to be displayed if image is not loaded  <img src="img/a.jpg" width="400" alt="abc"> |
| **video** | Video tag is used to play a video in our website.we can mention poster so that some image is displayed on first page of image  <video src="video.mp4" alt="abc" width="400" controls loop muted poster="img/a.jpg">ABC</video> |
| **I frame** | This tag is used to embed some other website into our website.  So for this we go to youtube and take iframe code from youtube.  You can also mention any website in iframe tag  <iframe src="https://www.google.com" frameborder="10" width="400" height="500"></iframe> |
| **Table** | Table tag in the html is used to make a table  <table>      <thead>      <tr>          <th>Subject</th>          <th>Theory</th>          <th>Practical</th>          <th>Total Marks </th>          <th>Grades</th>      </tr>  </thead>  <tbody>      <tr>          <td>English</td>          <td>20</td>          <td>33</td>          <td>22</td>          <td>77</td>      </tr>      <tr>          <td>Hindi</td>          <td>20</td>          <td>33</td>          <td>22</td>          <td>77</td>      </tr>      <tr>          <td>Maths</td>          <td>20</td>          <td>33</td>          <td>22</td>          <td>77</td>      </tr>  </tbody>  <tfoot>      <th colspan="5">Result:pass</th>  </tfoot>  </table> |
|  |  |

**WEB FORMS**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Payment Form</title>

</head>

<body>

    <form action="">

        <h1>Payment Form</h1>

        <p>Required Fields Marked with \*</p>

        <h2>Contact Information</h2>

    <p>Name: \*<input type="text" name="name" required></p>

    <p>

        <fieldset>

            <legend>Gender</legend>

        Male <input type="radio" name="gender" id="male" required>

        Female <input type="radio" name="gender" id="female" required>

    </p>

</fieldset>

<p>Address:<textarea name="address" id="address" cols="100" rows="8"></textarea></p>

<p>Email: \*<input type="email" name="email" id="email" required> </p>

<p>Pincode:<input type="number"

    name="pincode" id="pincode">

</p>

  <hr>

  <h2>Payment Information</h2>

  <p>Card Tye: \*

    <select name="card\_type" id="card\_type" required>

        <option value="">--Select a Card Type--</option>

        <option value="visa">Visa</option>

        <option value="rupay">Rupay</option>

        <option value="mastercard">MasterCard</option>

    </select>

  </p>

  <p>

    Card Number \*<input type="number" name="card\_number" id="card\_number">

  </p>

  <p>

    Expiration Date \*<input type="date" name="exp\_date" id="exp\_date" required>

  </p>

  <p>CVV \*<input type="password" name="cvv" id="cvv" required></p>

  <input type="submit" value="Pay Now">

</form>

</body>

</html>

**STRUCTURE OF A WEBSITE**

Semantic tags:

The tags which clearly defines the content such as heading and nav(used to show navigation information of webpage)

A screenshot of a computer

Description automatically generated

There are some tags which tell nothing about the content

<div> and <Span>

**<div>: this tag is used to group some of the tags so that some property can be applied to all of them**

Div is a block level element and span is an inline element

**Block level element**

Takes complete horizontal space means whole row is blocked

A screenshot of a computer code

Description automatically generated

**Inline element**

They are the elements which take only the space which our content is taking.not whole row.

Such as <em>.the next elemnt will come next to it.

**We use whimsicle**

**Designing a webpage**

We will be designing a webpage and the code is below

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Apni Kaksha | Home</title>

    <link rel="stylesheet" href="style.css">

</head>

<body>

    <header>

        <h1>Kids Learning</h1>

    </header>

    <nav>

        <a href="#">Home</a>

        <a href="#">College Review</a>

        <a href="#">Courses</a>

        <a href="#">Study Material</a>

        <a href="#">Login/Signup</a>

        <a href="#">About Us</a>

    </nav>

    <main>

        <section>

            <h2>Courses</h2>

            <video src="video/video.mp4" width="33%" poster="img/a.jfif" controls></video>

            <video src="video/video.mp4" width="33%" poster="img/b.jfif" controls></video>

            <video src="video/video.mp4" width="33%" poster="img/c.jfif" controls></video>

            <video src="video/video.mp4" width="33%" poster="img/aa.jfif" controls></video>

            <video src="video/video.mp4" width="33%" poster="img/bb.jfif" controls></video>

            <video src="video/video.mp4" width="33%" poster="img/cc.jfif" controls></video>

        </section>

        <section>

            <h2>Course Review</h2>

            <video src="video/video.mp4" width="33%" poster="img/d.jpg" controls></video>

            <video src="video/video.mp4" width="33%" poster="img/e.jfif" controls></video>

            <video src="video/video.mp4" width="33%" poster="img/f.jfif" controls></video>

        </section>

        <section>

            <h2>Study Material</h2>

            <a href="Notes/abc.pdf" target="blank"><img src="Notes/a.jfif" alt="" width="24%" height="60%"></a>

            <a href="Notes/b.pdf" target="blank"><img src="Notes/b.jfif" alt="" width="24%" height="60%"></a>

            <a href="Notes/c.pdf" target="blank"><img src="Notes/c.jfif" alt="" width="24%" height="60%"></a>

            <a href="Notes/abc.pdf" target="blank"><img src="Notes/a.jfif" alt="" width="24%" height="60%"></a>

        </section>

        <section>

            <h2>

                Our Founder

                </h2>

                <img src="img/founder.jfif" alt="This is Lee Changho" width="50%"

                >

                <h3>Lee Chinmu</h3>

                <a href="www.google.com" target="blank">Youtube</a>&nbsp;| &nbsp;

                <a href="www.youtube.com" target="blank">LinkedIn</a>

                <h4>Founder Of Some of the famous kids schools across Asia</h4>

                <h5>She is a well known educator who had been a principal of the Wellington Kids School in London.She has completed her Bachelors in kids education from the well known DownTown Unversity of Michigan,USA.Her aim is to provide the best education to small kids across the world in an interactive and fun way.</h5>

        </section>

    </main>

    <footer>

        <a href="#">FAQ</a>

        <a href="#">Contact Us</a>

        <a href="#">Terms of Use</a>

        <a href="#">Privacy Policy</a>

        <a href="#">Refund Policy</a>

        <a href="#">Other</a>

    </footer>

</body>

</html>

**1.header:** we specify this to give a header to our website

2.**nav:** it is for the navbar section

3.**main:** this is the part of webpage which will contain the main content of webpage.

It will have various sections

4. **section:** this denotes a particular feature on webpage.

5. **footer:** comes after the main section and is used to denote the foot of our webpage