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# FRONTEND PROGRAMMING

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## TABLE OF CONTENTS

- Day 1..... Overview of HTML
- Day 2..... Formatting Tags
- Day 3..... Table
- Day 4..... Form
- Day 5..... Character Entities
- DAY 6..... CSS Overview and Syntax
- Day 7..... CSS Text and Font
- Day 8..... CSS- BACKGROUND,BORDER,  
PADDING,MARGINS, OUTLINE,  
BOX-SHADOW & BOXMODEL
- Day 9..... CSS Dimension and Images
- Day 10..... CSS Links and List
- Day 10..... CSS & FORM
- Day 11..... CSS & FORM
- Day 12..... Icon
- Day 13..... CSS-Cursor
- Day 14..... More on Selector
- Day 15..... CSS Animation
- Day 16..... CSS- @Rules
- Day 17..... CSS Effect and Filters
- Day 18..... BOOSTRAP Component
- Day 19..... Component Cntd.
- Day 20..... Component Cntd.
- Day 21..... Component Cntd.
- Day 22..... GIT&GITHUB (Definition)
- Day 23..... Meaning of Repo

## FRONTEND PROGRAMMING

DAYS	TOPICS
	<b>HTML(HYPERTEXTMARKUPLANGUAGE)</b>
DAY 1	<p>Overview of HTML Rules of HTML Structure of HTML Indentation in HTML</p> <p><b>Tags:</b> Symantic Non-Symantic</p> <p><b>Key Tags in HTML:</b> Paragraph tag Header tags Comment tag</p> <p><b>Lists:</b> Ordered/Numbered list Unordered list. Nested list Descriptive list.</p> <p><i>Exercise: Each Students should build the Hire me! Page sent to the platform</i></p>
DAY 2	<p>Formatting Tags Subscripts Superscripts Strikethrough Bold/strong Italics Highlight Abbreviate Centre</p> <p><b>Link</b> Concept of Attributes Attributes of Link</p> <p>Image Iframe How to locate file</p>
DAY 3	<p>Table Merging of Row and Columns in Table</p> <p><b>Form</b></p> <p>Input Type attributes: text, number, password, date, month, image, search, radio, file, radio, color, checkbox, submit</p>
DAY 4	<p>Form Label Select and option Textarea and its attributes. Button Fieldset</p> <p>Other Input: Type Attribubutes: Placeholder, Value, maxlength, required, readonly, min, max, autofocus, multiple and step.</p> <p><i>Exercise: Each student is to create a form as given.</i></p>

# FRONTEND PROGRAMMING

DAYS	TOPICS
DAY 5	<p>Character Entities Meta Tags and its function Favicon and width Resizing of pictures Arrangement of Meta tags</p> <p>Exercise: Each student should resize his/her favicon to the normal size.</p>
	<h2>CSS(CASCADINGSTYLESHEET)</h2>
DAY 6	<p><b>CSS OVERVIEW &amp; SYNTAX</b></p> <ul style="list-style-type: none"> <li>Overview</li> <li>What is CSS?</li> <li>Why CSS? Advantages of CSS</li> <li>Who Creates and Maintains CSS? Versions of CSS</li> <li>Syntax (Basics) &amp; Inclusion</li> <li>Selector and Declaration explained</li> <li>Example of CSS code</li> <li>html &amp; CSS</li> <li>Relationship between html and CSS.</li> <li>Internal CSS ( attribute style and head tag style)</li> <li>External CSS</li> <li>Best time to use or internal</li> <li>CSS Theory of proximity (CSS rule overidding)</li> <li>CSS Comments</li> <li>Coding html and css together</li> </ul>
DAY 7	<p><b>CSS TEXT &amp; FONT</b></p> <p><b>Text</b></p> <ul style="list-style-type: none"> <li>Text Direction</li> <li>Space between Characters</li> <li>Space between Words</li> <li>Text Indent</li> <li>Text Alignment</li> <li>Text Decoration</li> <li>Text Cases</li> <li>Text Shadow</li> <li>Text Color</li> <li>CSS and color generally</li> <li>CSS Colors - Hex Codes</li> <li>CSS Colors - Short Hex Codes</li> <li>CSS Colors - RGB Values</li> <li>Building Color Codes</li> </ul> <p><b>Fonts</b></p> <ul style="list-style-type: none"> <li>Font Family</li> <li>Font Style</li> <li>Font Variant</li> <li>Font Weight</li> <li>Font Size</li> <li>Font Size Adjust</li> <li>CSS and measurement generally</li> <li>percentage (%)</li> <li>centimeters (cm)</li> <li>em</li> <li>vw</li> <li>inches (in)</li> </ul>

# FRONTEND PROGRAMMING

DAYS	TOPICS
DAY 8	<p><b>CSS- BACKGROUND, BORDER, PADDING, MARGINS, OUTLINE, BOX-SHADOW &amp; BOX MODEL</b></p> <p><b>Background</b></p> <ul style="list-style-type: none"><li>background-color</li><li>background-image</li><li>background-repeat</li><li>background-attachment</li><li>background-position</li></ul> <p><b>Border</b></p> <ul style="list-style-type: none"><li>Border styles(dotted, dashed, solid, double, groove, ridge, inset, outset, none, hidden,)</li><li>Border Width</li><li>Border Color</li><li>Border - Shorthand</li><li>Individual Sides</li><li>Rounded Borders</li><li>Padding</li><li>The padding-bottom Property</li><li>The padding-top Property</li><li>The padding-left Property</li><li>The padding-right Property</li><li>Padding shorthand</li><li>Margins</li><li>The margin-bottom Property</li><li>The margin-top Property</li><li>The margin-left Property</li><li>The margin-right Property</li><li>margin + or - direction explain</li><li>Margin shorthand</li><li>Outline</li><li>The outline-bottom Property</li><li>The outline-top Property</li><li>The outline-left Property</li><li>The outline-right Property</li><li>outline and form</li><li>outline shorthand</li><li>Box-Shadow</li><li>X axis shadow</li><li>Y axis shadow</li><li>Blur shadow</li><li>Color of the shadow</li></ul> <p>Exercise: Each students should create a frame for an image with the shadow reflecting inside.</p>
DAY 9	<p><b>CSS DIMENSION &amp; IMAGES</b></p> <p><b>Dimension</b></p> <ul style="list-style-type: none"><li>height</li><li>width</li><li>max-width (read more here: <a href="https://developer.mozilla.org/enUS/docs/Web/CSS/min-width">https://developer.mozilla.org/enUS/docs/Web/CSS/min-width</a>)</li><li>min-width</li><li>max-height</li><li>min-height</li><li>Images</li></ul> <p><b>Image Border</b></p> <p><b>Image Height</b></p> <p><b>Image Width</b></p> <p><b>image-opacity</b></p> <p><b>rgba</b></p> <p>Exercise: Each student should fade an Image using RGBA.</p>

# FRONTEND PROGRAMMING

DAYS	TOPICS
DAY 10	<p><b>Links</b></p> <ul style="list-style-type: none"><li>Set the Color of Links</li><li>Set the Color of Visited Links</li><li>Change the Color of Links when Mouse is Over</li><li>Change the Color of Active Links</li><li>Combining all the above in a right order.</li><li>open a link in a new tab</li></ul> <p><b>LISTS</b></p> <ul style="list-style-type: none"><li>list-style-type (disc, square, decimal, decimal-leading-zero, lower-roman, upper-roman, lower-greek, lower-latin, upper-latin, armenian, georgian, lower-alpha, upper-alpha, none)</li><li>list-style-image</li><li>html definition/descriptive &amp; nested list</li><li>css list display</li><li>list and link with css (practice)</li></ul> <p><b>CSS &amp; TABLE</b></p> <ul style="list-style-type: none"><li>CSS table border</li><li>border-collapse</li><li>css table-layout (auto, fixed, inherit)</li><li>table height &amp; width</li><li>table data horizontal/ vertical alignment</li><li>css table padding</li><li>hoverable table</li><li>strike table</li><li>border-spacing</li><li>table-layout</li><li>responsive table (overflow)Exercise:</li></ul> <p><b>CSS &amp; TABLE</b></p> <ul style="list-style-type: none"><li>CSS table border</li><li>border-collapse</li><li>css table-layout (auto, fixed, inherit)</li><li>table height &amp; width</li><li>table data horizontal/ vertical alignment</li><li>css table padding</li><li>hoverable table</li><li>strike table</li><li>border-spacing</li><li>table-layout</li><li>responsive table (overflow)</li></ul> <p>Exercise:</p>
DAY 11	<p><b>CSS &amp; FORM</b></p> <ul style="list-style-type: none"><li>Form width &amp; height</li><li>input[type="text"] styling</li><li>input &amp; borders</li><li>padded input</li><li>input outline &amp; input:focus</li><li>input with icon image</li><li>textarea resizing and border-box</li><li>Styling Input Buttons, submit, reset</li></ul> <p><b>CSS &amp; DIV, CLASS, ID &amp; POSITION</b></p> <ul style="list-style-type: none"><li>div</li><li>class</li><li>id</li><li>different between class &amp; id</li><li>span</li><li>position</li><li>static</li><li>absolute</li></ul>

# FRONTEND PROGRAMMING

DAYS	TOPICS
DAY 11	<p>fixed relative sticky</p> <p><b>Z-INDEX, FLOAT</b> right; left</p> <p>Exercise: 1. Each student should create a page with image at the four angle of the page using float. 2. Each student should create a Nav bar with menu</p>
DAY 12	<p><b>ICON</b></p> <p>1. &lt;link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"&gt; &lt;i class="fa fa-&gt;&lt;/i&gt; <a href="https://fontawesome.com/icons?d=gallery">https://fontawesome.com/icons?d=gallery</a></p> <p>2.&lt;link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"&gt; &lt;i class="glyphicon glyphicon-&gt;no anchor&lt;/i&gt; <a href="https://icons.getbootstrap.com/">https://icons.getbootstrap.com/</a></p> <p>3.&lt;link rel="stylesheet" href="https://fonts.googleapis.com/icon?family=Material+Icons"&gt; &lt;i class="material-icons"&gt;anchor&lt;/i&gt; <a href="https://material.io/tools/icons/?icon=accessibility_new&amp;style=baseline">https://material.io/tools/icons/?icon=accessibility_new&amp;style=baseline</a></p> <p><b>DISPLAY (inline, block, none, inline-block, flex, grid)</b> <b>Display flex:</b> flex-direction: row, column justify-content: flex-start, flex-end, center, space-between, space-around align-items: flex-start, flex-end, center, baseline</p> <p><b>Display grid:</b> grid-template: row, column justify-content: center, end, start, space-around, space-evenly</p> <p><b>Block-level Elements:</b> &lt;div&gt; &lt;h1&gt; - &lt;h6&gt; &lt;p&gt; &lt;form&gt; &lt;header&gt; &lt;footer&gt; &lt;section&gt;</p> <p><b>inline-level elements:</b> &lt;span&gt; &lt;a&gt; &lt;img&gt;</p> <p><b>VISIBILITY (hidden/visible)</b> Exercise</p>
DAY 13	<p><b>CSS — CURSORS</b> auto, crosshair, default, pointer, move, e-resize, ne-resize, nw-resize, n-resize, se-resize, sw-resize, s-resize, w-resize, text, wait, help,</p> <p><b>CSS OVERFLOW ( hidden, visible, scroll and auto)</b> <b>DROPODOWN</b> Exercise: Student should create a Nav bar with a dropdown as part of the menu item at the extreme right of the Nav bar.</p>

# FRONTEND PROGRAMMING

DAYS	TOPICS
DAY 14	<p><b>MORE ON SELECTOR</b></p> <ul style="list-style-type: none"> <li>The Type Selectors</li> <li>The Universal Selectors</li> <li>The Descendant Selectors</li> <li>The Class Selectors</li> <li>The ID Selectors</li> <li>The Child Selectors</li> <li>The Attribute Selectors</li> <li>Multiple Style Rules</li> <li>Grouping Selectors</li> <li>Pseudo selector</li> </ul> <p style="text-align: center;">:link, :visited, :hover, :active, :focus :first-child, :lang, :first-line, :first-letter, :before, :after pseudoelement</p>
DAY 15	<p style="text-align: center;"><b>CSS ANIMATION</b></p> <ul style="list-style-type: none"> <li>@keyframes Rule</li> <li>animation-name</li> <li>animation duration</li> <li>animation delay</li> <li>animation-iteration-count</li> <li>animation-direction</li> <li>animation-timing-function</li> <li>animation-fill-mode</li> <li>animation shorthand property</li> </ul> <p style="text-align: center;"><b>TRANSITION</b></p> <p style="text-align: center;"><b>TRANSFORMATION</b></p> <p><b>Exercise:</b></p>
DAY 16	<p style="text-align: center;"><b>CSS — @ RULES</b></p> <p><b>GRADIENTS</b></p> <ul style="list-style-type: none"> <li>linear-gradient</li> <li>radial-gradient</li> </ul> <p><b>BROWSER SUPPORT PREFIXES</b></p> <ul style="list-style-type: none"> <li>-webkit-</li> <li>-moz-</li> <li>-o-</li> </ul> <p><b>MEDIA QUERY</b></p> <ul style="list-style-type: none"> <li>@charset Rule</li> <li>!important Rule</li> </ul> <p><b>Exercise:</b> Each student should fill a box fill using linear gradient</p>
DAY 17	<p style="text-align: center;"><b>CSS EFFECT &amp; FILTERS</b></p> <ul style="list-style-type: none"> <li>Alpha Channel</li> <li>Motion Blur</li> <li>Chroma Filter</li> <li>Drop Shadow Effect</li> <li>Flip Effect</li> <li>Glow Effect</li> <li>Grayscale Effect</li> <li>Invert Effect</li> <li>Shadow Filter</li> <li>Wave Effect</li> <li>X-Ray Effect</li> </ul>

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DAYS	TOPICS
<h2> BOOTSTRAP </h2>	
DAY 18	Day 18 Overview Usefulness of bootstrap Methods of using Bootstrap Online method Download method Introduction Grid System
DAY 19	Buttons Alert Alert Dismissible Nav Tab Nav pill Toggleable Tabs
DAY 20	Modal Collapse Accordion
DAY 21	Navbar Carousel Scrollspy
<h2> GIT AND GITHUB </h2>	
DAY 22	Definition of Git What is Github Function of Git Difference between Git and Github Git commands  Exercise: Each student should push to Github  Meaning of Repo
DAY 23	Difference of local Repo and Remote Repo Deployment of Project from Github to: 1. Vercel 2. Netlify