

# Course Name      Full Stack Development

## Course Objective

1. To make the learner identify potential zones of uses of Full Stack Development in different-2 fields.
2. Providing experience of working with real time applications of Web to the learner.
3. Make a learner easily land up Full Stack development and Responsive web page.

## Course Overview

### The Course Covers-

1. About Full Stack Development Course
2. Course Objectives
3. Prerequisites
4. Who should go for this course
5. **Full Stack Development Course Content**
6. Basics – HTML
7. CSS
8. JAVA Script
9. jQuery
10. AJAX
11. HTML5
12. Responsive Design
13. PHP
14. Wordpress

## Course Outcome

### After Completion of this course –

1. The learner will be able to land in a job role related to develop Web application and Responsive Web Page.
2. The learner can easily get into other relevant courses such as Django App.
3. The Learner can also easily switch from existing job role with around of 20% hike from the current salary switch to any of the field where Responsive web designing is being used.
4. The learner will become capable o handling any project relevant to Responsive web page in a proper way.
5. The learner will have complete idea of implementing Django and python webdevelopment.

## Duration

45 Hours For classroom Training

## Modules

30 Modules

## Prerequisite

Any one can.

<b>Machine Requirement</b>	Windows Machine (Windows 7 or Above)/ Linux Machine Only 64 Bit Minimum 2 Gb Ram Graphics Card (Optional)
<b>Software used</b>	Sublime, Xampp or Wampp
<b>Software Free / Licensed</b>	Free
<b>If licensed, is demo version available</b>	Free
<b>Download link</b>	<a href="https://www.sublimetext.com/3">https://www.sublimetext.com/3</a>
<b>Any extra hardware other than PC required</b>	NO
<b>Hands on</b>	75%
<b>Projects Covered</b>	3
<b>Study Material</b>	<ol style="list-style-type: none"> <li>1. PPTs</li> <li>2. Practice Examples</li> <li>3. Reading Material in softcopy</li> <li>4. Project Codes</li> </ol>
<b>Any other relevant information</b>	<ol style="list-style-type: none"> <li>1. Life time access to LMS</li> <li>2. 24*7 Technical Support</li> <li>3. Wordpress course will be complementary</li> </ol>

**Detailed Content:**

<b>Module 1</b> <b>Introduction to UI Technologies</b>	<ol style="list-style-type: none"> <li>1. UI Developer roles and Responsibilities</li> <li>2. UX designer roles</li> <li>3. Technologies needed</li> <li>4. Power of UI</li> <li>5. Current market requirements on UI</li> <li>6. Sample Web pages</li> <li>7. Crawling and meta tags</li> </ol>
<b>Module 2</b> <b>Basic</b>	<ol style="list-style-type: none"> <li>1. DOM</li> <li>2. Structure of HTML Page</li> <li>3. Mandatory tags in the HTML page (HTML, head, body)</li> <li>4. What is CSS</li> <li>5. Different ways of applying CSS for elements, and priority chain of CSS</li> <li>6. Heading tags(H1...H6), Tags and attributes(Class, Id, style..etc)</li> <li>7. Inline and block-level elements</li> </ol>
<b>Assignment 1</b>	
<b>Module 3</b> <b>More Tags in HTML</b>	<ol style="list-style-type: none"> <li>1. Including external page links in a page using anchor tags and its properties</li> <li>2. Working with row and column data using table tags</li> <li>3. Hiding and unhiding elements using display property</li> <li>4. image tag, p tag, ul and ol tags, li, nobr, hr, br etc</li> <li>5. Layouts, forms, buttons</li> <li>6. Input fields (textbox, radio button, checkbox, dropdown, text area etc).</li> <li>7. Difference between <b>HTML5</b> and HTML 4</li> <li>8. List of Browsers support HTML5</li> <li>9. Doctype</li> <li>10. Media tags (audio and video tags)</li> <li>11. Graphics using Canvas tag</li> <li>12. Drag and Drop features</li> <li>13. Working on locations lat and lng using Geolocation</li> <li>14. Storing userpreferences using Localstorage.</li> </ol>
<b>Module 4</b> <b>More CSS Properties</b>	<ol style="list-style-type: none"> <li>1. Adding borders, font, pseudo classes</li> <li>2. Positioning elements (absolute, relative, fixed and static)</li> <li>3. Image spriting</li> <li>4. Box model (margins, padding)</li> <li>5. Floating elements (float left, right etc.)</li> <li>6. Including external resources</li> <li>7. Absolute and Relative Paths</li> <li>8. Including external resources like CSS, images etc.</li> <li>9. Difference between CSS2 and CSS3</li> </ol>

	<ul style="list-style-type: none"> <li>10. Adding borders and backgrounds</li> <li>11. Advanced text effects(shadow)</li> <li>12. 2D and 3D Transformations</li> <li>13. Adding Transitions to elements</li> <li>14. Adding animations to text and elements</li> </ul>
<b>Assignment 2</b>	
<b>Module 5</b> <b>Form Element</b>	<ul style="list-style-type: none"> <li>1. Get &amp; Post</li> <li>2. Validating input values in a form</li> <li>3. Form action and type</li> </ul>
<b>Module 6</b> <b>Java Script</b>	<ul style="list-style-type: none"> <li>1. Introduction</li> <li>2. Data types and data structures in Js</li> <li>3. Control structures, if, if-else, while, for, switch case statements</li> <li>4. Dynamic creation and manipulation of dom elements using js</li> <li>5. Adding dynamic event listeners to dom elements</li> <li>6. Event capturing and event bubbling</li> <li>7. Validations using key char code</li> </ul>
<b>Assignment 3</b>	
<b>Module 7</b> <b>JavaScript Supported Data structures</b>	<ul style="list-style-type: none"> <li>1. Arrays</li> <li>2. Predefined methods in arrays</li> <li>3. Strings and predefined methods</li> <li>4. Objects</li> <li>5. JSON</li> </ul>
<b>Module 8</b> <b>jQuery Framework</b>	<ul style="list-style-type: none"> <li>1. Onload and onready difference</li> <li>2. jQuery selectors</li> <li>3. Multiple ways of referring dom elements using jQuery selectors</li> <li>4. jQuery methods</li> <li>5. Adding dynamic properties for dom elements</li> <li>6. Toggling elements</li> <li>7. Creating dynamic elements using jQuery</li> </ul>
<b>Assignment 4</b>	
<b>Module 9</b> <b>AJAX</b>	<ul style="list-style-type: none"> <li>1. Advantages with Ajax and its limitations</li> <li>2. Samples working with Ajax</li> <li>3. Different data formats used in Ajax (string, xml, Json, etc)</li> <li>4. XML and JSON difference</li> </ul>

	5. Crossdomain interactions using JSONP
<b>Module 10</b> <b>An Introduction to PHP</b>	<ol style="list-style-type: none"> <li>1. History of PHP</li> <li>2. Versions and Differences between them</li> <li>3. Practicality</li> <li>4. Power</li> <li>5. Installation and configuring Apache and PHP</li> </ol>
<b>Assignment 5</b>	
<b>Module 10</b> <b>Default Syntax</b>	<ol style="list-style-type: none"> <li>1. Styles of PHP Tags</li> <li>2. Comments in PHP</li> <li>3. Output functions in PHP</li> <li>4. Datatypes in PHP</li> <li>5. Configuration Settings</li> <li>6. Error Types</li> </ol>
<b>Module 11</b> <b>Variables in PHP</b>	<ol style="list-style-type: none"> <li>1. Variable Declarations</li> <li>2. Variable Scope</li> <li>3. PHP's Superglobal Variables</li> <li>4. Variable Variables</li> </ol>
<b>Assignment 6</b>	
<b>Module 12</b> <b>Constants in PHP</b>	<ol style="list-style-type: none"> <li>1. Magic Constants</li> <li>2. Standard Pre-defined Constants</li> <li>3. Core Pre-defined Languages</li> <li>4. User-defined Constants</li> </ol>
<b>Module 13</b> <b>Control Structures</b>	<ol style="list-style-type: none"> <li>1. Execution Control Statements</li> <li>2. Conditional Statements</li> <li>3. Looping Statements with Real-time Examples</li> </ol>
<b>Assignment 7</b>	
<b>Module 14</b> <b>Function</b>	<ol style="list-style-type: none"> <li>1. Creating Functions</li> <li>2. Passing Arguments by Value and Reference</li> <li>3. Recursive Functions</li> </ol>
<b>Module 15</b> <b>Arrays</b>	<ol style="list-style-type: none"> <li>1. What is an Array?</li> <li>2. How to create an Array</li> <li>3. Traversing Arrays</li> <li>4. Array Functions</li> </ol>
<b>Assignment 8</b>	
<b>Module 16</b> <b>Include Functions</b>	<ol style="list-style-type: none"> <li>1. Include, Include_once</li> <li>2. Require, Require_once</li> </ol>

<b>Module 17</b> <b>Regular Expressions</b>	<ol style="list-style-type: none"> <li>1. Validating text boxes, emails, phone number, etc</li> <li>2. Creating custom regular expressions.</li> </ol>
<b>Assignment 9</b>	
<b>Module 18</b> <b>PHP with MySQL</b>	<ol style="list-style-type: none"> <li>1. What is MySQL</li> <li>2. Integration with MySQL</li> <li>3. MySQL functions</li> <li>4. Gmail Data Grid options</li> <li>5. SQL Injection</li> <li>6. Uploading and downloading images in Database</li> <li>7. Registration and Login forms with validations</li> <li>8. Paging, Sorting,.....</li> </ol>
<b>Module 19</b> <b>Working with the Files and Operating System</b>	<ol style="list-style-type: none"> <li>1. File Functions</li> <li>2. Open, Create and Delete files</li> <li>3. Create Directories and Manipulate them</li> <li>4. Information about Hard Disk</li> <li>5. Directory Functions</li> <li>6. Calculating File, Directory and Disk Sizes</li> </ol>
<b>Assignment 10</b>	
<b>Module 20</b> <b>Error and Exception Handling</b>	<ol style="list-style-type: none"> <li>1. Error Logging</li> <li>2. Configuration Directives</li> <li>3. PHP's Exception Class</li> <li>4. Throw New Exception</li> <li>5. Custom Exceptions</li> </ol>
<b>Module 21</b> <b>Date and Time Functions Authentication</b>	<ol style="list-style-type: none"> <li>1. HTTP Authentication</li> <li>2. PHP Authentication</li> <li>3. Authentication Methodologies</li> </ol>
<b>Assignment 11</b>	
<b>Module 22</b> <b>Cookies</b>	<ol style="list-style-type: none"> <li>1. Why Cookies</li> <li>2. Types of Cookies</li> <li>3. How to Create and Access Cookies</li> </ol>
<b>Module 23</b> <b>Sessions</b>	<ol style="list-style-type: none"> <li>1. Session Variables</li> <li>2. Creating and Destroying a Session</li> <li>3. Retrieving and Setting the Session ID</li> <li>4. Encoding and Decoding Session Data</li> <li>5. Auto-Login</li> <li>6. Recently Viewed Document Index</li> </ol>
<b>Assignment 12</b>	
<b>Module 24</b>	<ol style="list-style-type: none"> <li>1. Introduction</li> </ol>

<b>MySQL Concept</b>	<ol style="list-style-type: none"> <li>Storage Engines</li> <li>Functions</li> <li>Operators</li> <li>Constraints</li> <li>DDL commands</li> <li>DML Commands</li> <li>DCL Command</li> <li>TCL Commands</li> <li>Views</li> <li>Joins</li> <li>Cursors</li> <li>Indexing</li> <li>Stored Procedures</li> <li>Mysql with PHP Programming</li> <li>Mysql with Sqlserver(Optional)</li> </ol>
<b>Module 25 Responsive Designing (Bootstrap)</b>	<ol style="list-style-type: none"> <li>Introduction to Bootstrap</li> <li>Bootstrap 4 Grid</li> </ol>
<b>Assignment 13</b>	
<b>Module 26 Bootstrap Typography</b>	<ol style="list-style-type: none"> <li>Bootstrap 4 Heading</li> <li>Bootstrap 4 &lt;mark&gt;</li> <li>Bootstrap 4 Abbreviations &lt;abbr&gt;</li> <li>Bootstrap 4 Blockquotes</li> <li>Bootstrap 4 Description Lists &lt;dl&gt;</li> <li>Bootstrap 4 Code Snippets &lt;code&gt;</li> <li>Bootstrap 4 Keyboard Inputs &lt;kbd&gt;</li> <li>Bootstrap 4 Multiple Code Lines &lt;pre&gt;</li> </ol>
<b>Module 27 Bootstrap Color</b>	<ol style="list-style-type: none"> <li>Bootstrap Text Color</li> <li>Bootstrap Background Color</li> </ol>
<b>Assignment 14</b>	
<b>Module 28 Bootstrap Table</b>	<ol style="list-style-type: none"> <li><i>Bootstrap Table Basic</i></li> <li><i>Bootstrap 4 Table Classes</i></li> <li><i>Bootstrap 4 Table Examples</i></li> </ol>
<b>Module 29 Bootstrap Components</b>	<ol style="list-style-type: none"> <li>Bootstrap Alert</li> <li>Bootstrap Buttons</li> <li>Bootstrap Button Groups</li> <li>Bootstrap Badges</li> <li>Bootstrap Image Classes</li> </ol>
<b>Assignment 15</b>	

Thank you for query

For any query please feel free to reach us

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