

## **UI Designing**

### **Photoshop,Html,Css, JavaScript and JQuery, Bootstrap-4**

#### **Photoshop**

To design the new web page with different tools

#### **Objectives:**

With this progressive HTML5 ,CSS3, JAVA SCRIPT and J-QUERY combo course, we brings forth yet another blended training module comprising of two of the most popular and rapidly emerging technologies. HTML5 and CSS3 is the next big thing in the world of web development. HTML5 has risen to the status of a core markup language in the world wide web due to a number of new attributes and elements that are apt for use in modern websites.

This training will also teach you how to: code application logic in web applications with the use of JavaScript, store local data using JSON, create HTML5 pages to parse data with the use of HTML5 forms, build the DOM, build responsive layouts with CSS3, and describe on HTML5 canvas.

#### **HTML:**

**Overview of HTML5:** Introduction, The HTML5 Advantages, HTML vs. HTML5, What's new in HTML5, Semantic Markup, New HTML5 Semantic Tags.

#### **The Canvas API**

Introduction,Understanding Canvas, Context, Coordinates, Browser Support & Alternate Content, Working with Canvas, Checking for browser support, Writing Text on Canvas, Drawing a line, Applying Transformations to Drawings, Translate in Canvas,Working with Stroke Styles, Working with Rectangle, Working with Fill Styles, Working with Curves,Insert Image into Canvas, Linear Gradient, Radial Gradient, Background Pattern, Scaling Canvas Object, Canvas Text, Applying Shadows

#### **Scalable Vector Graphics in HTML5**

Overview of HTML 5 & CSS 3, Working with SVG in HTML5,Transforming SVG, Reusing SVG Elements, Drawing Paths,Using Patterns and Gradients with SVG, A small Application using SVG, Multimedia in HTML5,Introduction to Multimedia, Codecs and Containers, Browser support for Audio/ Video, Checking the Browser Support

Working with Audio/ Video Elements, Using Autoplay, More attributes, Control Functions, Adding Subtitles for Accessibility, Exclusive Video Attributes, Video Timeline Browser

#### **Understanding Geolocation API**

Overview, Sources of Location Information, Privacy Protection, Checking for Browser Support, Position Request, One-Shot Position Request, Repeated Position Updates, Showing Location on Google Map

#### **Working with Forms API**

Overview of Forms, Functional Forms, The Input Catalog, Common Input Types like, text, password, submit, radio,checkboxHTML 5 & CSS 3, button, HTML5 Input Types, number, date, color, range, month, week, time, date time-local,email,search, tell, url, HTML5 Form Attributes and Functions, Validating Form Elements in HTML5, A complete Application

### **Communications API in HTML5**

Introducing Cross Document Messaging, Sending a message, Receiving a message, Listening to the Message Events, Sample Application using postMessage. Progress Events, Cross-Origin Requests, Using Progress Events, Complete Application,

### **Working with WebSockets**

Understanding WebSockets, WebSocket Handshake, WebSocket Interface, Methods,WebSocket Framing,Adding Event Listeners,

### **Working with Web Workers**

Understanding Web Workers, Web Workers API,Browser Support, HTML 5 & CSS 3, Working with Web Workers, Initialization,Stopping, Error Handling,Shared Web Workers

### **Wing with Drag-and-Drop**

Understanding the Concept, Drag-and-Drop API HTML5, Drag-and-Drop Events, The Event Flow,Functions and Properties,FileHandling,A complete Application

### **Using Storage APIs**

Understanding Storage Setting and Retrieving Values,Resolving Data Leaks,Storage API Attributes and Functions, Web Storage Updates, Web Storage ExplainedComplete Implementation

### **Offline Web Applications with HTML5**

Offline Web Applications,Cache and Web Application,Cache Manifest File, Complete Illustration.

## **CSS:**

### **Introduction to CSS3**

Brief Description, Writing CSS, Defining Styles External Style Sheets,Inline Style Sheets, Declaration Block, lectors, Browser-specific Prefixes, Adding Comments to a CSS

### **Basic Selectors**

Understanding Selectors, The Document Object Model (DOM)

HTML 5 & CSS 3, Working of Selectors,Types of Selectors, Universal Selectors, Type Selectors, Class Selectors, ID Selectors, Descendant Selectors, Attribute Selectors, Pseudo-classes, Pseudo-elements,Grouping Selectors,Styling Links,Playing with Cursor

### **Working with Sizes, Colors and Files**

Sizes and Measuring Units, Relative Units, Example of Relative Units, Angles, Computing Length Values with calc(),Exploring Colors, Color Names, Hexadecimal Notations, RGB Format, RGBA Format,HSL Format, HSLA Format, Background Images.

### **Styling Text**

Working with Fonts, font-family, font-size,font-style, font-variant,font-weight,Dealing with Line Spacing,Changing the Text Color, Text Formatting, text-alignHTML 5 & CSS 3, text-decoration, text-indent, text-transform, vertical-align, white-space, text-overflow,Adding Text Shadows, Text Shadow, Adding Blur Effect to Shadow, White Text with Black Shadow, Adding Multiple Shadows.

### **Web Fonts**

Desktop Fonts vs. Web Fonts, Adding Web Fonts to Sites, Font Hosting Service, Storing Fonts to the Web Server,Font Formats and the Supporting Browsers, Embedding Web Fonts

## **Background, Borders and Shadows**

CSS Background, background-color, background-image, background-repeat, background-position, background-attachment, Adding Multiple Images to the Background , Defining Borders, Border-style, Border Width, Border Color, Border Shorthand, Additional Border Properties, Single Sided Border, Border with Alpha Transparency, Rounded Corner Borders, Using Border Images, Image Border Properties, Adding Drop Shadows, Adding Drop Shadow.

## **Gradients without Images**

Understanding Gradients, Creating Linear Gradients, Browser support, Specifying Colors, Specifying Direction, Controlling Transparency, Creating Radial Gradients, Differently Spaced Color Stops, Specifying Shape, Specifying Size, Repeating Gradients, Using Multiple Gradients

## **Advanced Selectors**

Why Advanced Selectors, First, Last and Only Child Instances, first-child Selector, last-child Selector, only-child Selector, first-of-type Selector, last-of-type Selector, Difference between :first-child and :first-of-type, Styling Selectors Based on Positions, Styling Selectors Based on Relationships, Styling Selectors Based on States, Negative Selectors, Other Pseudo Classes

## **Lists and Navigation Menus**

Working with Lists, List Styling Properties, Navigation Menus, Creating Vertical Navigation Bars, Creating Horizontal Navigation Bars,

## **Exploring Generated Content**

What is Generated Content, Inserting the Generated Content, Setting the Selectors Attribute as Generated Content

## **Transforms and Transitions**

Transforms in CSS3, Changing the Transform Origin, 2D Transform Methods, CSS3 Transitions, The transition Property, Controlling the Transition Speed Curve. Delaying the Transitions, Adding Transformation to the Transition

## **Animating Elements with Keyframes**

Animation vs. Transitions, Creating Animations Using Key frames, @key frames Rule, Animating a Text- Example, Delaying Animations, Running Animation for a Number of Times, Setting the Animation Play State, The animation-fill-mode, Setting the Animation Direction, Setting the Speed Curve of Animation,

## **Styling Tables**

Table Structure, Table Border, Table Headings, Cell Padding, Aligning Data, Table Cells Spacing Many Columns, Table Cells Spacing Many Columns, Adding Caption to a Table and Defining Styles for tables, Grouping Table Rows, Table Layout Interpretation by Browsers

## **Elements Positioning**

Understanding the Elements Positioning, Positioning Types, Positioning Elements, Specifying the Position Type, Overlapping Elements, Fixing Elements in the Browser Window, Creating Tooltips, Styling Tooltips, Drop Down Menus, Creating Child Selectors, Creating submenus, Masking an Absolutely Positioned Element

## **Working with Layouts**

Introduction to CSS Box Model, Setting Element Dimensions, Setting Box Size, Height and Width, Paddings and Margins, Specifying Paddings, Specifying Margins, Collapsing Margins, Removing Default Margins, Changing Layout with display, Controlling Visibility, Floating Elements, The float Property, Specifying Margins with Floating Elements, Clearing Float, Centering the Image, Adding Captions to Images, Using Multiple Classes

## **Multi-Column Layouts with CSS3**

The Multi-Column Layout, Multi-Column Properties, Specifying Multiple Columns, Specifying the Column Gap

HTML 5 & CSS 3, Setting the Rule between Columns, Spanning Columns, Specifying the Column Width, Filling the columns, Dealing with Column Breaks

### **Dealing with Cross Browser Layouts**

Creating Columnar Layouts using float, Single-Column Layout, Two-Column Layout using float, Three-Column Layout, Introducing Flexbox, The flex Properties.

### **Media Queries**

Understanding Media Queries, Specifying Media Queries, Media Features, Media Query Expressions, A Complete Illustration, Media Queries with Alternative Conditions, Setting Viewport, The HTML meta Tag, The viewport CSS, Handling Images with Media Queries

### **Print CSS3**

Introduction, Media Types, The @media Rules, Defining Page Margins, Specifying Page Breaks, Breaking Content

### **JQUERY:**

The jQuery Basics and managing the Element Selection. Manipulating the DOM. Manipulating the Elements. Working with Events. Using jQuery Effects. Working with Data and Ajax. Using Data Templates. Working with Forms. Using jQuery UI. Button, Progress Bar, and Slider Widgets, Autocomplete and Accordion Widgets, Tabs Widget, Datepicker Widget, Dialog Widget, Drag & Drop Interactions, Other Interactions, Using jQuery Mobile, Getting Started with jQuery Mobile, Pages and Navigation, Dialogs, Themes, and Layouts, Buttons and Collapsible Blocks, Using jQuery Mobile Forms, jQuery Mobile Lists,

Advanced Features: Using the jQuery Utility Methods, The jQuery UI Effects & CSS Framework, Using Deferred Objects

### **JAVASCRIPT:**

Introduction to JavaScript, Introduction to web development and JavaScript, How to create a JavaScript application, How to test and debug a JavaScript application, XHTML, CSS, How to get input and displays output, How to work with numbers, strings, dates, How to code control statements, How to create and use array, How to create and use function, How to create and use objects, How to use regular expressions, handle exceptions, and validate data DOM Scripting, Basic DOM scripting, Advanced event handling, Advanced DOM manipulation, How to script CSS, How to script tables and forms, Animation with DOM scripting, Other JavaScript Skills, How to control the web browser, How to use JavaScript libraries

### **Bootstrap 4 Course Content**

- Introduction
- What is Bootstrap?
- Features of Bootstrap
- History of Bootstrap
- Bootstrap Overview
- Bootstrap Installation
- Tools Used for Web Development
- Setting Development Environment
- Bootstrap First Application
- Bootstrap Components Overview
- Basic Typography
- Text Alignment & Display
- Floats Position in Bootstrap

- Colors Background
- Spacing in Bootstrap
- Sizing in Bootstrap
- Breakpoints in Bootstrap
- Buttons in Bootstrap
- Navbars in Bootstrap
- List groups and Badges in Bootstrap
- Forms in Bootstrap
- Input groups in Bootstrap
- Alerts & Progress bars in Bootstrap
- Tables & Pagination in Bootstrap
- Cards in Bootstrap
- Media Objects
- Grid System in Bootstrap
- Grid Alignments in Bootstrap
- Flex boxes in Bootstrap
- Auto margin & wrapping order in
- Carousels in bootstrap
- Collapse classes in Bootstrap
- Tooltips in Bootstrap
- Popovers in Bootstrap
- Modals in bootstrap

**Project :**

- Responsive Portfolio Website