

WEB DESIGNING WITH REACT



CURRICULUM

Introduction to Web Technologies

- » Careers in Web Technologies and Job Roles
- » How the Website Works?
- » Client and Server Scripting Languages
- » Difference between a Web Designer and Web Developer
- » Types of Websites (Static and Dynamic Websites)
- » Responsive design and layout

Photoshop

- » Introduction to Adobe Photoshop
- » Color mode & resolution
- » Types of Graphics
- » Export image
- » Animated Image
- » Tools
- » Ruler and scaling
- » Create Logos
- » Photos masking
- » Smart Objects
- » Merge Layers
- » Group Layers
- » Layer Styles
- » Blending Options
- » View Menu / Window Menu
- » Filter Effects
- » Image Adjustments
- » Realtime Website Layout Design

HTML 4.0

What is Markup Language

Basic Structure of HTML

Document Overview

- The Structure Tags
- Getting Started With HTML
- Writing the Code
- Head Section
- Meta Tags
- External Link Tags
- HTML Tags
- HEAD Tags
- Title Tags
- Body Tags
- Displaying a web page in a web Browser

HTML Elements

- Block level elements
- Inline elements
- Empty elements

Working with Forms

- Creating a Form
- Form Tag
- POST and GET Method
- Text Input, Text Area, Checkbox, Image Input and Radio
- Select Option
- Option Group
- File Upload and Hidden Fields
- Submit Button, Reset Button
- Relation between HTML Form and PHP

Adding Special Characters

Block Oriented Elements

- Defining Paragraphs and new Lines
- Inserting Spaces
- Perforating the Text
- Changing Background Color

List

- Ordered List
- Unordered List
- Definition List

Attributes of List

- Using Type attribute with Unordered list
- Using Stat attribute with Ordered List
- Some other elements
- Visual Markup

Uniform Resource Locators

- Types of URLs
- Absolute URLs
- Relative URLs
- Document-Relative URLs
- Server-relative URLs

Hypertext Links

- Why links fail?

Images

- Adding Images
- Adding Border to an image

Tables

- How to create table
- Adding Border to a Table
- Apply Formatting Features to Table
- Merge row and columns

Introduction to style Sheets

- How style sheets work
- Style Sheet Structure

Changing the Background

- Changing the color of the text
- Changing the front
- Changing the Indent of the text
- Changing the Line Spacing
- Hide a Style Sheet

Creating Style Classes

- Div
- Span
- Frame
- Layer
- Meta
- HTML Frames
- Frame
- iframe

HTML5

- Introduction to HTML5
- Introduction to HTML5
- What's new in HTML5

HTML5 Syntax

- The DOCTYPE
- The <script> tag
- The <link> tag
- HTML5 Document

New input Elements

- Color
- Date
- Datetime
- datetime-local
- email
- month
- number
- range
- search
- tel
- time
- url
- week

New Input attributes

- autofocus
- formaction
- formmethod
- formnovalidate
- height and width
- list
- min and max
- multiple
- pattern (regexp)
- placeholder
- required
- step

Audio and Video

- <audio>
- <video>
- <source>

New Structural Elements

- <details>
- <dialog>
- <summary>
- <meter>
- <main>
- <header>&<footer>
- <section>
- <aside>
- <figure>

SVG

- What is SVG?
- SVG Advantages
- SVG in HTML
- SVG Shapes
- SVG Text
- SVG Stroke properties
- SVG Animation

Canvas

- What is canvas?
- Lines
- Curves
- Paths
- Shapes
- Color, gradients
- Image
- Arc
- Text
- Shadow

HTML5 APIs

- Google Map

CSS Drag & Drop

- CSS Introduction
- CSS Syntax
- CSS Id & Class
- Types of CSS links

Colors and Backgrounds

- color
- background-color
- background-image
- background-repeat
- background-position
- background-attachment
- background

Text and Fonts

- font
- font-family
- font-size
- font-weight
- font-style
- line-height
- letter-spacing
- word-spacing
- text-align
- text-decoration
- text-transform
- white-space

Lists

- list-style
- list-style-type
- list-style-image
- list-style-position

Tables

- table-layout
- border-collapse
- border-spacing

CSS Selectors

- Universal Selector
- Type Selector
- Class Selector
- ID Selector
- Child Selector
- Descendant Selector
- Attribute Selector
- Adjacent Sibling Selector
- General Sibling Selector
- Query Selector

CSS Box Model

- CSS Border
- CSS Outline
- CSS Margin
- CSS Padding

CSS Advanced

- CSS Grouping/Nesting
- CSS Dimension
- CSS Display
- CSS Positioning
- CSS Floating
- CSS Align
- CSS Pseudo-class
- CSS Pseudo-element
- CSS Navigation Bar
- CSS Image Gallery
- CSS Image Opacity
- CSS Attribute Selectors
- Styling Links

CSS 3.0

Introduction to CSS3.0

What's new in CSS 3.0

Border

- border-image
- border-radius

CSS Shadows

- Text-shadow
- Box-shadow

Background

- background-clip
- background-size
- background-origin
- background-image

Outline

Transitions

- transition
- transition-delay
- transition-duration
- transition-property

Transform

2D Transforms

- transform
- matrix()
- translate(x,y)
- scale(x,y)
- rotate(angle)
- skew(x-angle,y-angle)

3D Transforms

- transform
- transform-style

- perspective
- transform-origin

Animations

- @keyframes
- animation
- animation-direction
- animation-duration
- animation-name

Selectors

- CSS combinations
- Pseudo Elements

Gradients

- Linear Gradients
- Radial Gradients

Multiple Columns

- column-count
- column-fill
- column-gap
- column-width
- columns
- column-rule
- column-rule-color
- column-rule-style
- column-rule-width

User Interface

- resize
- box-sizing
- outline-offset

CSS Filters

- Blur
- Brightness
- Contrast
- Grayscale
- Hue-rotate
- Invert
- Opacity
- Saturate
- Sepia
- Drop-shadow

Media Query

- What is Responsive Web Design
- Intro to the Viewport
- The Viewport Tag
- Media Queries
- Fluid Layouts
- Tablet Styles
- Mobile Styles
- Making a Mobile Drop-down Menu
- Responsive Images & Polyfills

Web Fonts

- @font-face
- font-family
- src
- font-stretch
- font-style
- font-weight

Flexbox

- flex-grow
- flex-shrink
- flex-basis
- flex
- flex-wrap
- flex-direction
- flex-flow
- justify-content
- align-items
- order

Dreamweaver cc

Interface

- choosing a workspace
- document window & toolbars
- the document window
- the launcher
- the insert panel & tool sets
- the document toolbar
- the property inspector
- dockable floating panels
- using contextual menus

Site Control

- defining a site
- file and folder management
- creating site maps
- using the file browser

Basics

- defining the site
- creating and saving documents
- inserting images with assets panel
- adding text
- aligning page elements
- modifying page properties
- creating links with text and images
- preview in browser

Linking

- link with point to file
- linking to new source files
- browse for file and link history
- anchor links
- email links
- file links
- image maps

Typography

- About Typography
- Web Typography

Tables

- insert and modify a table
- fixed width tables
- relative width tables
- hybrid table
- insert tabular data
- sort table data

Rollovers

- simple rollovers - insert rollover
- simple rollover - swap image behavior
- multiple-event rollovers
- flash buttons

Cascading Style Sheets

- redefining HTML tags
- defining a custom class
- CSS selectors
- CSS selectors to group tags
- linking to external CSS
- CSS reference panel

Forms

- form objects
- creating a form
- creating a jump menu

Behaviors

- set text of status bar
- open browser window behavior

Inserting Media Objects

- linking to sounds
- embedding sounds
- inserting flash
- content inserting director content

JAVASCRIPT

Introduction to JavaScript

- Syntax
- Statements
- Comments

Enabling in various browsers

Popup Boxes

- Alert
- Confirm
- Prompt

Variables

Operators

- Arithmetic
- Assignment
- Comparison
- Logical
- Conditional

Conditional Statements

- if
- if...else
- if...else if...else
- Switch

Loops

- while
- do...while
- for
- for...in Statement
- Break
- Continue

Functions

- User-defined Functions
 - Function Syntax
 - Function with Arguments
 - Returning Values from Functions
- Built-in Functions
- parseInt and parseFloat

Events

- Introduction
- Mouse Events
- Keyboard Events
- Form Events
- Document/Window Events

Cookies

Page redirection

Built-in Objects

- Introduction
- Number
- Strings
- Math
- Arrays
- Associative Array
- Array Properties and Methods
- Date
- Boolean
- Regexp

Advanced javascript

- Form Validations
 - Basics of Form Validation
 - Validating Radio Buttons
 - Validating Checkboxes
 - Validating Select Menus
 - Validating Textareas

JS Document Object Model (DOM)

- Introduction
- DOM HTML
- DOM CSS
- DOM Events

JS Browser Object Model (BOM)

- JS Cookies
- JS Window
- JS Location
- JS Popups
- JS Time

Introduction to OOP concept

Jquery

What is JQuery?

Overview of JQuery features

Using JQuery links

JQuery Selectors

JQuery Events

JQuery Effects

- Hide() & show()
- Fade()
- Slide()
- Animate()
- Callback function
- Chaining

JQuery HTML

- Get() & Set()
- Add() & Remove()
- CSS()
- Dimensions()

JQuery Traversing

- Parent() & children()
- Next() & Prev()
- Find()

Jquery AJAX

Image slider using JQuery plugins

Form Validation

Bootstrap Framework

Getting started with Bootstrap

Grid system in Bootstrap

Adding Header & Navigation

Adding Logo in Navigation Bar & Adding Banner

Adding Jumbotron

Adding Rows, Columns & Containers

Adding Column Width using offset

Ordering Columns using push or pull

Nesting Columns in Bootstrap

Adding Footer top Website

Typography in Bootstrap

Adding glyphicons

Styling Tables

Adding Responsive or Utilities in Bootstrap

Styling Button using between classes

Styling Images and making images Responsive

Adding description list in bootstrap

Adding Panels

Java Script

Js Basics

- keywords
- identifiers
- datatypes
- variables and constants
- tokens
- operators

Decision Making Statements

Conditions Statements Or Selection Statements

- if
- if else
- nested if else
- if else if ladder
- switch case

Iteration Statements Or Loops

- for
- while
- do while
- for in
- for of

Jump Statements

- continue
- break

Functions

- function declarations, definitions and calling
- types of functions

- anonymous functions
- flat arrow functions or arrow functions
- self invoked function (IIFE)
- storage classification or variable scope (var let const and without keywords)
- recursion

Strings Methods

array Methods

Global Execution Context and Function execution context

- scope chain rule and lexical scoping
- closure

Objects

- literal and keys
- object functions
- nested objects
- Object Prototypes
- setter and getter methods

Set and Map

WeakMap and WeakSet

Dates and Time

OOPS

- literal and keys
- object functions
- nested objects
- Object Prototypes
- setter and getter methods

DOM Manipulation

- DOM
- BOM
- event handling
- time based events

Advanced Js

How Javascript Works

- hoisting
- strict mode
- closure
- synchronous and asynchronous programming

Event propagation

- bubbling
- capturing

Event loop

function curring

ajax and json

calling api using ajax

callback hell

promise

async await

fetch

modules

version

Typescript

- Why Typescript
- Basic Types
- Class and Interfaces
- Modules

React Js

INTRODUCTION TO REACT JS

- What is React JS?
- What is SPA?
- DOM vs Virtual DOM
- Advantages and Disadvantages
- Key Features

ENVIRONMENTAL SETUP

- Node | NPM
- Installation of CLI
- Setup Project
- Directory Structure
- Code Editors
- How React JS Application Boot

BASIC FEATURES OF REACT JS

- React Concepts
- JSX and TSX
- Render Elements
- Function and Class Components
- Props and State
- Handling Events
- Dynamic Data Rendering
- Property Binding

KEY FEATURES OF REACT JS

- Conditional Rendering
- List and Keys
- Forms Handling
- Forms Validations

COMPONENT LIFECYCLE HOOK

- Understanding component lifecycle
- All Lifecycle Hooks

EVENT HANDLING REACT

- Understanding React Event System
- Passing arguments to event Handlers

NETWORK CALL

- Fetch
- Axios

CUSTOM SERVICES

- Introduction to Services
- Building a Service

LOCAL DATA STORAGE

- Local Storage
- Session Storage
- Cookies

ROUTING WITH REACT ROUTER

- Setting up React Router
- Configuring route with Route Component
- Making routes dynamic with Route Params
- Working with nested routes
- Link and NavLink
- Redirect Routes

UI COMPONENTS

- Material Design
- PrimeNG

INTRODUCTION TO REDUX

- Why Redux
- Install and setup
- Store ,Reducer , actions
- Dispatcher
- High order Components
- mapStateToProps and mapDispatchToProps usage

ADVANCE REDUX

- Async Actions
- Middleware
- Redux Thunk and Redux Saga

React Hooks

- Why We Need Hooks.
- Different Types Of Hooks
- Using State And Effect Hooks
- Usereducer , Userref Etc.
- Custom Hooks
- Rules Of Hooks

Third Party Modules

- Social Login
- Pagination
- Search
- Filter
- JWT Token
- File Upload
- Many More

Rest Js Testing

- Jest with Enzyme

Develop a CRUD Application in React Js

Next js

- Introduction
- Routing
- Page Pre-Rendering (Server Side Rendering) & Data Fetching
- Server-side rendering vs Client-side rendering
- Optimizing NextJS Apps
- Adding Backend Code with API Routes
- Working with App-wide State
- Adding Authentication


Ecommerce Project



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