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React JS

Introduction to Websites

What is a Webpage

Introduction to HTML

Creating a simple HTML Document

Viewing HTML Document with Browsers

Introduction to different Web Browsers – IE, Chrome, Mozilla, Safari, UC Browser

Webpage Vs Website

URLs / Domains

Web Servers and Web Hosting

HTML

Elements of a HTML Document

Understanding HTML Tags

HTML Editors

Creating a Simple HTML Document

Adding Attributes to Tags

Handling Texts in HTML

Headings

Paragraphs

Formatting Texts

Managing Blocks with <Div> Tag

<Div> - Id's and Class

Line Breaks

Managing Lists

HTML Styles

Controlling Fonts and Size

Alignment

Applying Colors

Foreground and background colors

HTML Tables

Creating a Table

Managing Columns

Table Borders

Border Spacing

Handling Images

- Adding Image
- Formatting Image
- Handling Size of an Image
- Aligning Images
- Adding Animated Images
- Background Images

Handling Layouts

HTML Forms

Introduction to HTML Forms

Form Elements

Form Input and Attributes

Introducing HTML 5

HTML Vs HTML 5

New Elements in HTML 5

New Form Elements in HTML 5

Handling Audio & Video

Handling Graphics

Canvas

Handling SVG

Handling Events

HTML 5 APIs

Geolocation

Drag / Drop

Web Storage

Advantage of Web Storage over Cookies

Session based Web Storage

Introducing CSS and CSS 3

What is a Style Sheet

Cascading Effect of a Style Sheet

Text Properties

Border Properties

Position properties

Display properties

Inline and External CSS

CSS Selectors – IDs and Classes

Understanding Layouts
Absolute, Relative and Fixed Positioning
Advanced CSS
Transformations

Responsive Layouts and Media Queries

Simplifying CSS with Bootstrap
Introducing Bootstrap Framework
Advantages of Bootstrap Framework over CSS
Responsiveness with Bootstrap
Bootstrap Grids
Bootstrap UI Components
Buttons, Tables, Menus, Carousels, Dropdowns, Alerts

Javascript

Introduction to Javascript
Necessity for Javascript
Javascript Structure and Elements
Operators and Functions
Control Structures
The Document Object Model (DOM), Objects and Nodes
Arrays and Objects.
Handling DOM using Javascript
Javascript Events
OOPS in JavaScript
JSON and uses
Animating UI Elements

React Overview(both class and functional component)

Introduction
What are SPA apps
What is React
How react works internally
What are the alternatives
What problem does it solve
When to use React
Component based architecture

JSX

Introduction
Write your first jsx code
How to compile jsx to Javascript
Write class based components with jsx

Renderig jsx to DOM using react DOM

Dom manipulation

Introduction

Select elements using ref

Other ways to select elements

Props vs States

Introduction

What are Props

What are states

Proptypes validation

Lifecycle Methods in React

Introduction

How componentWillMount works

How componentDidMount works

How componentWillReceiveProps works

How shouldComponentUpdate works

How componentWillUpdate works

How componentDidUpdate works

How componentWillUnmount works

Understanding When to use which life cycle method

Forms & validations

Introduction

How to get input from users using Forms

Form validations

Style React Components

Introduction

Using css in react

Inline styles

Impoting external styles

Event Handling in React

Introduction

How events work in react world

What are synthetic events

Mouse events

Keyboard events

Redux and State management

Introduction

What is state management

Flux architecture

Redux Introduction

How to manage state in large applications with redux

Routing

Introduction

Navigating between components

React Router

Creating and managing routes

Integrating redux with react router

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