

Training Content

(HTML CSS JavaScript, React JS, Angular)

1. HTML

Overview Web Technology

Client side and Server side Programming

What is HTML?

Versions of HTML

Structure Of HTML

Languages vs Scripts

Web tools browsers

Types of Webpages

Writing web page.

HTML Tags

Introduction to HTML tags ex. html, head and body

Understanding controls and attributes

Use of container div, p, ul, li

Building List

Formatting Tags

Navigation tags

Table tag

Form tag

Introduction to Meta keywords and Description

Attributes

Understanding attribute?

Attributes of html controls

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Events

JavaScript Event

Dynamic html with events

Styling

Style in web page

Inline style

Internal style

External style

Built-in style

Advanced HTML

Introduction to embedded or Multimedia in web page?

Understanding cross browser problems

Introduction to HTML5 Features.

2.CSS (CASCADING STYLE SHEETS)

Introduction

What is CSS?

Advantages of CSS

Why CSS?

Types of Stylesheets

External style sheet

Internal style sheet

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Inline style

Types of Selectors

Global

Class

Id

Grouped

Descendant

Div & Span tags

Background

background-color

background-image

background-repeat

background-attachment

background-position

Text

letter-spacing

Word-spacing

line-height

text-decoration

text-transform

vertical-align

Font

font-family

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color

font-size

font-style

font-variant

font-weight

3.JAVASCRIPT

Introduction to javascript

Introduction javascript

Cross browser issues.

Syntax

Statements

Comments

Popup Boxes

Variables

Data Types

Operators

Introduction to DOM

Regular Functions

Arrow function

Nested Function

Callback function

Default parameter

Closure function

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Function binding

Conditional statements

If statement

if...else

if...else if...else

Switch

Loops

Introduction to loop

Difference between for and while

Built-in function for looping

Object Arrays

Associative Arrays

Array Properties and Methods

Advanced JavaScript

Introduction to es6

Constructor keyword this

Prototype

Understanding State management

Query string and Cookie

Form validation

Local storage

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5. React JS Redux

Introduction to React (Web Application Development)

Understanding React and Why React?

Client side Framework/Library or Technologies

Single Page Application vs Multiple Page Application

Different Architecture discussion.

Real DOM vs Virtual DOM

Setup ReactJS Environment

Node.js Installation

Node Package Manager

Installation React CLI

Creating first web application

React Basics

ES5 vs ES6

Why use jsx ?

Component creation

Class component vs functional component

Building Class component

Constructor and render function

Building Functional Component

Multiple Components

Using Props in Class Component

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Using Props in Functional Component

Using State in Class Component

Rendering Multiple row data

Component lifecycle

Understanding component lifecycle

- ✓ Mounting
- ✓ Updating
- ✓ Unmounting

Event handling in React

Understanding React event system

Passing arguments to event handlers

Working with forms

Reading DOM element using React Form

Validator and Error message in React Form

Using style or Bootstrap class in form/ component

Routing with react router

Understanding Routing

Setting up react router

Understand Single Page Application

Working with BrowserRouter

Configuring route with Route component

Making routes dynamic using route params

Working with nested routes

Navigating to pages using Link and NavLink component

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Redirecting to routes dynamically

Invalid route handling Error Page not found.

Advanced Topics

High Order Component (HOC)

Why Hooks in React

Functional Component with Hooks

Implementing Hooks in component

Introduction to Redux – State Management

What is Redux

Why Redux

Redux Architecture

Installation and Setup Redux

Redux and State management

Redux Action

Redux Reducer

Redux Store

Understanding Middleware

Fetching API data using Redux

Understanding axios

Asynchronous requests handling with axios and Redux

Crud operation - add, update, delete, get request to API

What is Promise?

Understanding Middleware thunk

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2. Angular

Typescript

- Introduction to Typescript
- Typescript Features
- Variable & Data Types
- Modifiers
- Class
- Modules
- Constructor
- Inheritance
- Functions and Arrow Function

Angular Features

Environment Setup

- Node.js and NPM installation
- Angular CLI installation
- Run Angular CLI

Creating Project

- Understanding Configuration
- Creating Components
- Bootstrapping the Component
- Multiple Component

Understanding Binding

- Data Binding
- Attribute Binding
- Event Binding

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- Custom Event

Directives

- Introduction Directives
- Types of Directive
- Component Directives
- Structural Directives
- Attribute Directives

Pipes

- Introduction to Pipes
- Built-in Pipes
- Creating Custom Pipes

Routing

- The Component Router
- Defining Routes
- Navigation
- Route Params
- Child Routes

Angular Service

- Building Service
- Calling service

Observables

- Retrieving data using HTTP
- Handling Exception

Modules

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- Why use Modules
- NgModule
- Declarations
- Imports
- Bootstrapping
- Shared Modules

Forms Introduction

- Building Form
- Angular form input controls
- Angular form validation