

REACT JS



Course Objectives

Enable participants to develop elegant and responsive Front-end by leveraging latest technologies

Build strong foundations (ex: Design pattern) in entry level engineers thereby making them job ready as per industry requirements. Enable them to learn new technologies by applying foundation paradigms

By the end of the program participants will be become an industry-ready engineer who can be readily deployed in a project

Course Flow

Front-end Web developer course starts with introducing participants with front-end technologies (ex: HTML5 & CSS3) and makes them develop responsive one page web application. To cater modern day Front-end requirements (ex: responsive design) getting hands-on with latest frameworks (ex: ReactJS) becomes important. This course deep dives into frameworks to ensure participants implement front end that scales well across PC, mobile and tablet screens. Throughout the course foundation paradigms (ex: Design patterns) are stressed to ensure participants clearly understand software engineering fundamentals.

Course Outline

This package includes these courses

- Web Development with HTML & CSS
- Advanced HTML & CSS
- Flexbox, Grid, & Bootstrap
- JavaScript for Front-End
- Front-End React JS

More details

Web Development with HTML & CSS

- Start building websites by hand-coding HTML & CSS
- Create multi-page websites with text, images, & more
- Learn how to style with CSS

Advanced HTML & CSS

- Master important CSS concepts such as positioning, advanced CSS selectors, relative type sizing (px, em, rem), calc(), and much more
- Learn sophisticated styling with multiple background images, transparent color using RGBA, CSS gradients, shadows, and more
- Create animated effects using CSS transitions & transforms

Flexbox, Grid, & Bootstrap

- CSS Flexbox for laying out and aligning webpage content.
- CSS Grid for an entirely new way to think about laying out entire webpages.
- Learn how to use Bootstrap (which is made with Flexbox) to build out layouts quickly

JavaScript for Front-End

- Write JavaScript code to add animation and interactivity to webpages
- Learn the fundamentals of the JavaScript language (variables, loops, arrays, functions, etc.)
- Understand how to use free pre-made JavaScripts to quickly can add many different kinds of common functionality
- Create animated slideshows and build animated image enlargers
- Learn to animate any content

React js

- Use reusable components to render views where data changes over time
- Organize React projects to create more scalable and maintainable websites and apps
- Use props to pass data between components. Create dynamic and interactive web pages and apps
- Use forms to allow users to interact with the app. Build an application in React

Advanced React JS

- Create robust and reusable components with advanced techniques and learn different patterns to reuse common behavior
- Interact with a remote server and fetch and post data via an API
- Seamlessly test React applications with React Testing Library
- Integrate commonly used React libraries to streamline your application development



Final Project

You will create a React shopping cart app for your final project in the final module. You will apply and integrate many skills learned in the instructional modules, including creating functional components and updating those components using states and hooks. You will use Redux to manage states within your application using actions, reducers, and the store. The project architecture allows you to compose components using a nesting structure. You will also manage side effects with useEffect hooks. You will handle user events to render fetched data from an array and trigger corresponding actions. This module has a practice project that will assist you with developing the required components and functionality in the final project.



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