LearnForge INFOTECH

FRONT END
COURSE OVERVIEW

MODULE 1 : HTML Basics

- Structure of an HTML Document
- Essential HTML Tags: Headings, paragraphs, images, lists, links
- Forms and Input: Input types, labels, buttons
- HTML5 Semantic Tags: header, footer, article, section, nav
- Project: Creating a basic webpage

MODULE 2 : CSS Fundamentals

- Introduction to CSS: Syntax, selectors, and properties
- CSS Box Model: Margin, border, padding, content
- Styling Text and Colors: Fonts, color models, alignment
- Layouts with CSS: Display, positioning, flexbox, grid
- Responsive Design: Media queries and fluid layouts
- Project: Styling a multipage website

MODULE 3 : Introduction to Bootstrap

- Bootstrap Setup and Grid System
- Bootstrap Components: Navbar, forms, buttons, cards
- Bootstrap Utilities: Margins, padding, and typography classes
- Building Responsive Designs with Bootstrap
- Project: Creating a responsive webpage using Bootstrap

MODULE 4 : JavaScript Basics

- JavaScript Fundamentals: Variables, data types, operators
- Control Structures: Loops, conditionals Functions and Scope
- DOM Manipulation: Selecting elements, event handling
- Working with Arrays and Objects
- Project: Adding interactivity to a webpage

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MODULE 5 : Advanced JavaScript

- ES6+ Features: Let, const, arrow functions, spread/rest operators
- JavaScript Classes and OOP Basics
- Asynchronous JavaScript: Promises, async/await
- Fetching Data from APIs
- Project: Interactive webpage with API integration

MODULE 6 : Introduction to React

- Setting Up a React Environment: Using create-react-app
- JSX and Components: Creating and using components
- Props and State Management Handling Events in React
- Conditional Rendering and Lists
- Project: Building a basic React application
- Module 8: Advanced React Concepts
- React Router for Navigation
- React Forms and Controlled Components
- Lifting State Up and Component Composition
- Introduction to Hooks: useState, useEffect
- Using External APIs in React
- Project: Developing a single-page application with React
- Module 9: Capstone Project
- Project Planning and Setup
- Combining HTML, CSS, Bootstrap, JavaScript, and React
- Project Review and Feedback
- Deploying the Project Online