

WEB-203

React: Practical Front End Application Development

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OVERVIEW	
Skill Level	: Intermediate
Suitable for	Experienced developers who want to learn how to build readily : testable front-end applications with React JS
Duration	: 5 Days

React JS is a powerful front-end Javascript framework, but with great power comes great responsibility! Unlike Angular JS, React JS is not particularly prescriptive in terms of how applications should be structured.

This course presents a battle-tested, practical approach to building front end applications with React JS that are extensible, maintainable, and readily testable.

Through progressive elaboration of worked code examples, course participants will create a full front-end application using React JS, integrated with a fully functioning REST API. Note: a runnable server-side API application is provided as part of course materials; development of such an API is not in scope for this particular course.

The course begins with a one-day prelude, covering key concepts in core JavaScript; participants do not need to have prior experience coding in JavaScript (although the ability to code in some other language is still necessary).

Adopting a Component-based UI approach, we next demonstrate how to structure user interface elements according to the Atomic Design System. Participants will learn how to iterate UI designs within a cross-functional team using Storybook, for ease of visual testing (ie. designer/developer workflow). Further, we teach how to use SaSS to generate parameterized, namespaced CSS stylesheets, matching the Atomic Design components described in the project's Storybook assets.



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Ultimately, these techniques are combined in detailed, practical lessons in correct usage of React JS and Redux to produce a working front-end application, integrated with a typical REST API.

PREREQUISITES

WEB-101 – Web Development Fundamentals (or equivalent experience/training).

COURSE OUTLINE

Core JavaScript

- Introduction
- Variables and Data Types
- Operators
- Functions
- Conditional Statements

HTML DOM

- DOM Document
- DOM Selectors

Component-based UI Development

- Introduction to Design Systems
- Atomic Design concepts

Loop Statements

- Data Structures
- Arrays
- Object and Inheritance
- DOM Events and Handlers
- DOM Manipulation
- Implementing Atomic Design using Storybook
- Structuring SaSS for React UIs with Atomic Design namespacing

React

- Components
- JSX
- States
- Props validation

- Lifecycle
- Forms
- Routers
- Flux Concepts



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Redux

- Overview
- Core concepts
- Data Flow
- Store

- Actions
- Pure Functions
- Reducers
- Middleware

Software and Hardware Requirements

- React JS
- Node JS



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