Front-End Web Development with React: Course Overview

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Expected Background

- You should have good working knowledge of:
 - HTML & CSS goes without saying
 - JavaScript
 - Good knowledge of ES 5 is necessary
 - Preferrably ES 2015+ / ES 6?
 - YMMV
 - Preferrably completed the Front-End Web UI Frameworks and Tools: Bootstrap 4 course

Web Design and Development

Design

- User Interface (UI)/ User
 Experience (UX) Design
- Visual Design
- Prototyping
- Colors, Graphics and Animation

- Development, Building and Deployment
 - Web UI Frameworks: Bootstrap 4
 - JavaScript Libraries: React
 - Hybrid MobileFrameworks: React Native
 - Server-side Development:Node + Express +MongoDB

Full Stack Web Development

UI Framework Bootstrap 4 / Angular Material

> JS Framework/library Angular/React



Presentation layer

BaaS

NodeJS Modules

NodeJS

Business Logic layer

MongoDB

Data Access layer

Course Outline

- React
- Reactstrap
- Redux
- Fetch

Module 1: Introduction to React

- Full Stack Web Development: The Big Picture
- Setting up your Development Environment: Git and Node
- Introduction to React
- React Components
- Assignment 1

Module 2: React Router and Single Page Applications

- React Component Types
- React Router
- Single Page Applications
- Assignment 2

Module 3: React Forms, Flux Architecture and Introduction to Redux

- Controlled Forms
- Uncontrolled Forms
- Introduction to Redux
- React Redux Form
- Assignment 3

Module 4: More Redux and Client-Server Communication

- Redux Actions
- Redux Thunk
- Client-Server Communication
- Fetch
- React Animations
- Building and Deployment
- Testing
- Assignment 4