

# Complete React Developer in 2019: Course Guideline

## [Zero to Mastery course catalogue](#)

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**@SlingingKeys**

### **React Basics**

Environment Setup for Mac

- [Visual Studio Code](#)
- [NVM](#)
- [NodeJS](#)
- [Yarn](#)

Environment Setup for Windows

- [Visual Studio Code](#)
- [GitBash](#)
- [NodeJS](#)
- [Yarn](#)

Deploying our app

- [Github Repo of completed monsters rolodex project](#)
- [Google Fonts](#)

Introducing lifecycle methods

- [Github Repo of lifecycles example](#)

### **Master Project: Setting Up E-commerce Project**

E-Commerce Homepage + SASS Setup

- [Github Repo for start of lesson](#)
- [Github Repo of end of lesson](#)
- <https://www.npmjs.com/package/node-sass>

Homepage and Directory Components

- [Github Repo for start of lesson](#)

Styling Menu Items

- [Github Repo of end of lesson](#)

## **Master Project: React Router and Routing**

Routing in our project

- [React router dom documentation](#)
- [Github Repo for start of lesson](#)
- [Github Repo of end of lesson](#)
- [react-router-dom](#)

React Router Dom

- [Github repo for sample project](#)

withRouter()

- [What are higher order components?](#)
- [Github Repo for start of lesson](#)
- [Github Repo of end of lesson](#)

## **Master Project: Forms + Components**

Shop Page

- [Github Repo for start of lesson](#)

Collection Item

- [Github Repo for end of lesson](#)

Header Component

- [Github Repo for start of lesson](#)
- [Github Repo for end of lesson](#)

Sign in Component

- [Github Repo for start of lesson](#)

Custom button component

- [Github Repo for start of lesson](#)

## **Master Project: Firebase + User Authentication**

Firebase introduction

- [Firebase website](#)

Adding a project to firebase

- [Github Repo for start of lesson](#)
- [firebase](#)

Google sign in authentication

- [Firebase web documentation](#)

Google sign in authentication 3

- [Github Repo for end of lesson](#)
- [CSS Border Box](#)

Storing user data in firebase

- [Github Repo for start of lesson](#)

Sign up with email and password

- [Github Repo for end of lesson](#)

Sign in with email and password

- [Github Repo for start of lesson](#)
- [Github Repo for end of lesson](#)

## **Master Project: Redux 1**

Setting Up Redux 1

- [Github Repo for start of lesson](#)
- [redux](#)
- [redux-logger](#)
- [react-redux](#)

connect() and mapStateToProps

- [Github Repo for end of lesson](#)

User redirect and user action type

- [Redirect component documentation](#)
- [Github Repo for start of lesson](#)
- [Github Repo for end of lesson](#)

Cart component

- [Github Repo for start of lesson](#)

Implementing Redux in Cart

- [Github Repo for end of lesson](#)

Add to cart styling

- [Github Repo for start of lesson](#)

Cart item reducer

- [Github Repo for end of lesson](#)

Adding multiple items to cart

- [Github Repo for start of lesson](#)
- [Github Repo for end of lesson](#)

Cart item component

- [Github Repo for start of lesson](#)
- [Github Repo for end of lesson](#)

Reselect library

- [reselect](#)
- [Github Repo for start of lesson](#)
- [Github Repo for end of lesson](#)

User selectors

- [Github Repo for start of lesson](#)

Checkout item component

- [UTF-8 Wingdings](#)
- [Github Repo for end of lesson](#)

Remove Items from Cart

- [Github Repo for start of lesson](#)
- [Github Repo for end of lesson](#)

Remove Items at checkout

- [Github Repo for start of lesson](#)
- [Github Repo for end of lesson](#)

## **Master Project: Session storage + persistence**

Local storage and session storage

- [window.localStorage](#)
- [window.sessionStorage](#)

Redux persist

- [Redux-persist](#)
- [Github Repo for start of lesson](#)
- [Github Repo for end of lesson](#)

## **Master Project: Redux 2**

Directory state into Redux

- [Github Repo for start of lesson](#)

## **Master Project: State Normalization**

Data flow in our app

- [Github Repo for end of lesson](#)

## **Master Project: Stripe Payments Part 1**

Introduction to stripe

- [stripe](#)

Stripe integration

- [Github Repo for start of lesson](#)
- [React-stripe-checkout](#)

Finishing touches + look ahead

- [Github Repo for end of lesson](#)

## **Master Project: Deploying to Production**

Deploying to Heroku

- [Heroku](#)

Optimizing production build

- [Github Repo for start of lesson](#)
- [Github Repo for end of lesson](#)

## **Master Project: CSS-in-JS Styled Components**

CSS in JS

- <http://getbem.com/>
- styled components

Styled-components in our app

- [Github Repo for start of lesson](#)
- [Github Repo for end of lesson](#)

Exercise: styled-components

- [Github repo our code up until now](#)
- [Github Repo to our project converted to styled-components](#)

## **Master Project: Advanced Redux + Firebase**

Moving our shop data to firebase

- [Github Repo for start of lesson](#)

## **Master Project: HOC Patterns**

WithSpinner HOC

- [css keyframe animations](#)

Optional: How to build HOCs

- [Github Repo for project demonstrating HOC pattern](#)

## **Master Project: Asynchronous Redux**

Promise Pattern

- [Firestore rest api documentation](#)
- [Github Repo for end of lesson](#)

Redux thunk

- [redux-thunk](#)
- [Github Repo for start of lesson](#)

## **Master Project: Container Pattern**

Container Pattern

- [Github Repo for end of lesson](#)

## **Master Project: Redux Saga**

Generator functions

- [generator function documentation](#)

Redux-saga

- [Github Repo for start of lesson](#)
- [Redux-saga](#)

take(), takeEvery(), takeLatest()

- [Github: take/takeLatest/takeEvery](#)

Root saga

- [Github Repo for end of lesson](#)

Planning ahead with sagas

- [Github Repo for start of lesson](#)

Clear Cart Saga

- [Github Repo for code up to now](#)

Solution: Sign up saga

- [Github Repo for end of lesson](#)

## **Master Project: React Hooks**

React hooks introduction (useState)

- [Introducing hooks](#)
- [useState documentation](#)
- [Github Repo for useState example](#)

## useEffect

- [Github Repo for useEffect example](#)
- [useEffect documentation](#)

## Hook Rules

- [hook rules](#)

## Converting class components with useState

- [Github Repo for start of lesson](#)

## Custom hooks

- [Github Repo for custom hook example \(useFetch\)](#)

## useReducer

- [Github Repo for useReducer example](#)
- [useReducer documentation](#)

## **Master Project: Stripe Payments Part 2 - Backend**

### Introduction to backend

- [Github Repo with full code](#)

### Creating our server inside the project

- [concurrently](#)
- [nodemon](#)
- [Github Repo for start of lesson](#)

### Building a basic server

- [express](#)
- [dotenv](#)
- [CORS](#)
- [bodyParser](#)

### Backend payment route

- [stripe](#)

### Connecting client to server

- [axios](#)
- [fetch POST documentation](#)



Deploying to production

- [Heroku config variables documentation](#)
- [Github Repo with full code](#)

## **Master Project: Context API**

Introduction to ContextAPI

- [ContextAPI documentation](#)
- [Github Repo for start of lesson](#)

ContextConsumer + useContext Hook

- [useContext documentation](#)

Provider context pattern 2

- [Github Repo for code up to now](#)
- [Github Repo for completed context exercise](#)

Redux vs ContextAPI

- [Github Repo for completed context exercise](#)

## **Master Project: GraphQL + Apollo**

Introduction to GraphQL

- [GraphQL website](#)

GraphQL Playground

- [Link to GraphQL playground](#)
- [Prisma](#)
- [Alternative to Prisma: Hasura](#)
- [GraphQL primitive types](#)
- [Github Repo for Crwn-Clothing Prisma Backend](#)

Introduction with Apollo

- [Github Repo for start of lesson](#)
- [Apollo docs](#)
- [apollo-boost](#)
- [react-apollo](#)
- [graphql](#)

## Apollo Container

- [Import default as alias](#)

## Query with variables

- [Crwn-Clothing playground](#)

## Mutations on the client

- [Apollo cache](#)
- [Resolvers documentation](#)

## CartItem Count with Apollo

- [react-apollo graphql\(\) docs](#)
- [Github Repo for code up to now](#)
- [Github Repo for completed context exercise](#)

## Should you use GraphQL?

- [Apollo moving away from graphql HOC](#)

## **Mobile Support**

### Mobile Responsiveness 1

- [@media queries](#)
- [Github Repo for start of lesson](#)

### Mobile Responsiveness 2

- [CSS grid cheatsheet](#)
- [Github Repo for code up to now](#)
- [Github Repo for completed context exercise](#)

## **Performance**

### Code Splitting Introduction

- [code splitting documentation](#)

### Intro to section

- [Github Repo for start of lesson](#)

### React Lazy + Suspense

- [React lazy](#)
- [React suspense](#)

## Error Boundaries

- [Error boundaries](#)
- [404 images](#)

## React.memo, PureComponent, shouldComponentUpdate

- [React.memo](#)
- [PureComponent](#)
- [React devTools](#)

## useCallback

- [useCallback](#)
- [Javascript set](#)
- [Github Repo for lesson](#)

## useMemo

- [useMemo](#)

## Gzipping and Compression

- [compression](#)

## **Progressive Web apps**

### Converting our App to PWA

- [express-sslify](#)
- [lighthouse plugin](#)
- [crwn-live](#)

## **Webpack + Babel**

### Introduction to Webpack + Babel

- [Github Repo for start of lesson](#)
- [Webpack docs](#)
- [What is regex?](#)
- [What is babel?](#)
- [Babel-loader](#)

### Webpack Config

- [Style-loader](#)
- [CSS-loader](#)
- [html-webpack-plugin](#)
- [Github repo for end of lesson](#)

## **Build a Gatsby blog**

### Introduction to Gatsby.js

- [Gatsby.js](#)

### Starting a Gatsby project

- [Gatsby-CLI](#)
- [Gatsby blog starter](#)
- [Gatsby Plugin Directory](#)

### Gatsby Pages

- [Gatsby pages documentation](#)
- [useStaticQuery documentation](#)

### Gatsby GraphQL + Markdown

- [Markdown cheatsheet](#)

### Building our blog 1

- [gatsby-transformer-remark](#)
- [gatsby-source-filesystem](#)

### Building our blog 2

- [gatsby-node.js API](#)
- [createFilePath documentation](#)

### Building our blog 3

- [create-pages](#)
- [createPage](#)
- [tagged-template-literals](#)

### Building our blog 4

- [dangerouslySetInnerHTML documentation](#)
- [path](#)

### Building our blog 5

- [styled-components](#)
- [gatsby-plugin-styled-components](#)
- [babel-plugin-styled-components](#)
- [netlify](#)