Complete React Developer ZTM: Course Guideline
Zero to Mastery course catalogue
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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