

Capstone Project Technical Reference

Introduction

Throughout the project, you might encounter new concepts that have been added to ensure you are able to develop a fully functional project. This project can be added to your portfolio and showcased to potential employers. This reading is a collection of React concepts and tools that are referenced in the capstone project.

React Router

React Router is a client and server-side library for React. React Router enables client-side routing.

You can use React Router DOM, an npm package, to implement dynamic routing in a web app. React Router DOM enables the functionality to navigate across various components and pages in a single-page web application (app) without refreshing the page, instead dynamically fetching content based on the URL. This process is called routing.

You must install `react-router-dom` in the React project's root folder using `npm i react-router-dom` to create routes.

You can find more information on React Router and related concepts and uses at reactrouter.com.

Which hands-on lab implements this feature?

[Capstone Studio: Pages in Dynamic React Components](#)

ES7+ React/Redux/React-Native snippets

ES7+ React/Redux/React-Native snippets are extensions for React, React-Native, and Redux in JavaScript with TypeScript (TS) with ES7+ syntax. ES7+ is customizable and integrates with Prettier, a code formatting tool.

You can find more information about the extensions and ES7 installation instructions in the [Visual Studio Marketplace](#).

Which hands-on lab implements this extension?

[Capstone Studio: Pages in Dynamic React Components](#)

Event handlers

Event handlers are functions that you can create to customize how a component responds to a user interaction, such as a click or hover. When developing the capstone project, you will use at least two event handlers in each component.

`onFocus`

The `onFocus` event occurs when an element receives focus. For example, when a user clicks inside a text box, it triggers the `onFocus` event that allows the user to see what they type. The `onFocus` event is commonly used to execute functions or perform actions when an element gains focus.

Refer to the [onFocus](#) topic on the react.dev website for more information.

`onBlur`

React `onBlur` is an event that triggers when an element loses focus. You can use the `onBlur` event for components, such as input fields, text areas, and buttons.

Refer to the [onBlur](#) topic on the react.dev website for more information.

Which hands-on lab(s) implement event handlers?

[Build the Appointment Booklet Component](#)

You can also optionally consider using `onFocus` both the event handlers in the following lab(s) including:

- [Build the Review Component](#)
- [Build the Profile Component](#)

reactjs-popup library

`reactjs-popup` is a versatile library that enables you to create and manage modal dialogs, menus, and tooltips within React applications. Using the library, you can perform various actions, such as displaying information and prompting specific actions without making the user navigate away from the current page. You can design visually appealing, animated, responsive, and customizable modals to provide an enriching experience to users.

You can install `reactjs-popup` library using `npm i reactjs-popup`.

Refer to the [reactjs-popup](#) section on the npm website for more information.

Which hands-on lab implements the `reactjs-popup` library?

[Interview Landing Form Module](#)

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