**Coding Activity 7.1**

Converting Web Components To React Components (90:00)

#### **Learning Outcome Addressed**

 2. Convert web components into React components

So far, you learned how to create web components with Bootstrap, custom web components, and React components. In this exercise, you’ll gain more practice by converting a list of web components to React components.

**Web & React Components**

### From Web Components To React Components

This week, you've created pure Web components, React components, and learned how to use them interchangeably. In this activity, you’ll solidify your understanding of components by converting a pure Web Component into a React Component.

#### Why Focus on Web Components?

You might be wondering why you need to understand how to create Web components when React components appear to have greater functionality. As with most technologies and tools you’ll come across, there are pros and cons to everything. One tool isn't always better than the other. You must learn to choose the best tool for the circumstances and requirements of what you’re building.

#### Choosing the Tool That Is Best for Your Project

For instance, React components have some drawbacks, including:

* They, for the most part, can only be used inside of an application that supports React
* They don't have as great a browser backwards compatibility that Web components have

If you’re working on a single application, these aren't really issues. But what if you’re working for a massive corporation with multiple applications that span different front-end technologies? That's where creating a Web component might be a better approach, since a Web component can run in just about any JavaScript library or framework. It is important that you understand how to use Web components and React components, and how they work together.

**In this activity, you'll start with an application that pulls movie showtime data from a JSON file named movies.json, just like the books example you saw.**

movies.json

{

  "movies": [

    {

      "title": "Casablanca",

      "showTime": "Sun 8 Feb - 10:00PM",

      "screen": "4",

      "row": "F",

      "seat": "21,21",

      "imageUrl": "https://resizing.flixster.com/1AihiP2VoZOgyhOx4EBb4Oyj57g=/206x305/v2/https://flxt.tmsimg.com/assets/p651\_p\_v13\_az.jpg"

    },

    {

      "title": "The Wizard of Oz",

      "showTime": "Sun 12 Feb - 10:00PM",

      "screen": "2",

      "row": "C",

      "seat": "8,9",

      "imageUrl": "https://resizing.flixster.com/ulqUDhVVuKGWDLeBtkp9KjyReo8=/206x305/v2/https://flxt.tmsimg.com/NowShowing/129612/129612\_ab.jpg"

    },

    {

      "title": "Citizen Kane",

      "showTime": "Sun 24 Feb - 10:00PM",

      "screen": "7",

      "row": "A",

      "seat": "15,17",

      "imageUrl": "https://resizing.flixster.com/TFBv-8EpN6nFPkEcsGPzQxgndF4=/206x305/v2/https://flxt.tmsimg.com/assets/p1485\_p\_v10\_ac.jpg"

    }

  ]

}

**Sampleoutput**

**Coding Activity 7.1**



