# Exercise 11: React or Vue

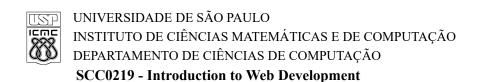
Upload a zip file named USPnumber1.USPnumber2.zip.

The format for a late upload (if you uploaded your incomplete version during the class) is late.USPnumber1.USPnumber2.zip.

Remove the node modules folder before sending the zip.

1. A real-time search function means that as soon as you type a term into a search box, the results are displayed in real-time. We are going to implement a search component with this functionality. It has a fixed list of entries (at least 20 items) and, when you type a term in the search field, the results are displayed. Starting from the index.html file (Appendix 1 at the end of this document), make this widget work using React or Vue. Appendix 2 has the setup for local development.

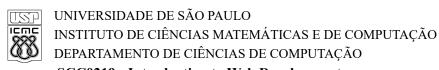
Search	Search
Search term	
Results	Results
Adam Warlock	Iron Fist
Amadeus Cho	Iron Man
Angel	
Beast	
Ben Reilly	
Beta Ray Bill	
Betsy Braddock	
Black Bolt	
Black Cat	
Black Knight	
Black Panther	



# Appendix 1 (index.html):

</html>

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
   <title>Search</title>
 </head>
 <body>
   <div id="app" class="container-fluid">
     <h1>React/Vue.js Search</h1>
     <div class="form-group">
       <input type="text" class="form-control"</pre>
             placeholder="Search term">
     </div>
     <div class="result-container">
       <h2>Results<span></span></h2>
       </div>
   </div>
 </body>
```



# Appendix 2: Create setup locally

#### 1. React Setup:

- Install Node.js and npm if you haven't already. You can download Node.js from the official website.
- Install Create React App globally on your machine by using the command: npm install -g create-react-app
- Create a new React application by running the command: create-react-app book-listing
- Navigate to your new project folder (cd book-listing) and start the
  development server (npm start). Your browser should open a new tab
  pointing to localhost:3000 with the text "Edit src/App.js and save to reload."

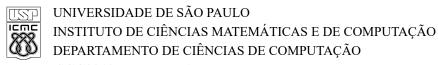
#### 2. Vue Setup:

- Install Node.js and npm if you haven't already. You can download Node.js from the official website.
- Install Vue CLI globally on your machine by using the command: npm install -g @vue/cli
- Create a new Vue application by running the command: vue create book-listing
- Navigate to your new project folder (cd book-listing) and start the
  development server (npm run serve). Your browser should open a new tab
  pointing to localhost:8080 with the Vue logo and the message "Welcome to
  Your Vue.js App".

Use these files only if you cannot create the setuo locally

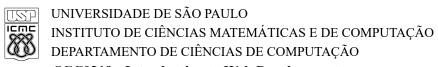
#### Hello World in Vue

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <title>Vue.js Hello World</title>
    <!-- Include Vue.js from CDN -->
    <script
src="https://cdn.jsdelivr.net/npm/vue@2/dist/vue.js"></script>
    <!-- Optional: Include Bootstrap CSS for styling -->
    link
      rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap
.min.css"
   />
  </head>
  <body>
    <div id="app" class="container-fluid">
      <h1>Vue.js Hello World</h1>
      <div class="hello-world">
        h2 \in {\text{message }} </h2 >
      </div>
    </div>
    <!-- Vue instance script -->
    <script>
      new Vue({
        el: '#app',
        data: {
          message: 'Hello World!',
        },
      });
    </script>
  </body>
</html>
```



### Hello World in React

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <title>React Hello World</title>
    <!-- Include React and ReactDOM from CDN -->
    <script
      crossorigin
      src="https://unpkg.com/react@17/umd/react.development.js"
    ></script>
    <script
      crossorigin
src="https://unpkg.com/react-dom@17/umd/react-dom.development.js"
    ></script>
    <!-- Include Babel to transpile JSX -->
    <script
src="https://unpkg.com/@babel/standalone/babel.min.js"></script>
    <!-- Optional: Include Bootstrap CSS for styling -->
    ink
      rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap
.min.css"
   />
 </head>
 <body>
    <div id="app" class="container-fluid">
      <h1>React Hello World</h1>
    </div>
    <!-- React script -->
    <script type="text/babel">
      function App() {
        return (
          <div className="hello-world">
            <h2>Hello World!</h2>
          </div>
```



Good luck!