Upload a zip file named USPnumber1.USPnumber2.zip.

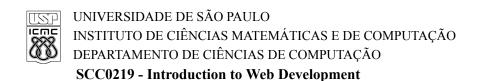
Exercise 11: React or Vue

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.

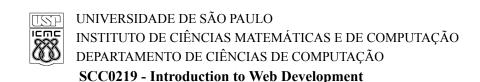
1. A real-time search function means that as soon as you type a term into a search box, the results are displayed in real-time. We are going to implement a search component with this functionality. It has a fixed list of entries (at least 20 items) and, when you type a term in the search field, the results 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	[trd]
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):

```
<!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>
</html>
```



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."

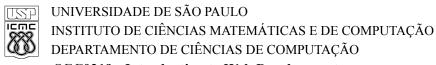
2. Vue Setup:

- 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

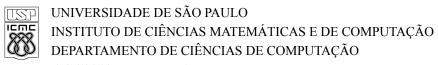
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <title>Vue.js Hello World</title>
    <!-- Include Vue.js from CDN -->
    <script
src="https://cdn.jsdelivr.net/npm/vue@2/dist/vue.js"></script>
    <!-- Optional: Include Bootstrap CSS for styling -->
    ink
      rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstra
p.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>
```



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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/bootstra
p.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>
```



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Good luck!