

Enter your NAME and SID number

NAME: mohn, Geoffrey

Student ID Number: 912568/48

```
1 import React, { useState, useEffect } from 'react';
2 import { sendGetRequest, sendPostRequest } from './AJAX.jsx';
3 import './App.css';
4
5 function MovieList() {
6   const [movies, setMovies] = useState([]);
7   const [trailer, setTrailer] = useState(false);
8
9   function initialize() {
10     (async function() {
11       let newMovies = await sendGetRequest('query/getList');
12       setMovies(newMovies);
13     })();
14   }
15   useEffect(initialize, []);
16
17   async function fetchTrailer(movie) {
18     // Step 3
19     use Effect(() => { setMovies([movie]);
20     }, [movie]);
21     let url = movie.url;
22     return (
23       <div>
24         { src = {url}}
25       </div>
26     );
27   }
28
29   let itemElems = [];
30   for (let i = 0; i < movies.length; i++) {
31     itemElems.push(
32       <li key={i} onClick={fetchTrailer(movies[i])}>
33         {movies[i]}
34       </li> );
35   }
36
37   let itemElems = [];
38   for (let i = 0; i < movies.length; i++) {
39     itemElems.push(
40       <li key={i} onClick={fetchTrailer(movies[i])}>
41         {movies[i]}
42       </li> );
43   }
```

```

1      if (trailer != false) {
2          return (
3              <div>
4                  <ul> {itemElems} </ul>
5                  <Trailer />
6                  // Step 1 <Trailer update={trailer}/>
7              </div>
8          );
9      } else {
10         return (
11             <div>
12                 <ul> {itemElems} </ul>
13             </div>
14         );
15     }
16 }
17
18 function Trailer(props) {
19     // Step 2
20     let trailerUpdate = props.url;
21     function dismissButton() {
22         setTrailer(false);
23     }
24     if trailer != false {
25         return (
26             <div>
27                 <button onClick={dismissButton}>dismiss</button>
28                 <ul> {itemElems} </ul>
29             </div>
30         );
31     } else {
32         <div> <Trailer update={trailerUpdate}/>
33     }
34 }
35 export default MovieList;
36

```

// call trailer with trailer Properties
// get url of trailer
// set flag if button click
// Don't add trailer url if dismiss

Server Programming Problem (15 pts)

The Oxford English Dictionary has an API. As an example, if you want to look up the meaning of the word "profligate", you could send the GET request

<https://od-api.oxforddictionaries.com/api/v2/entries/en-gb/profligate>

get back JSON data that begins like this:

```

{ "id": "profligate",
  "metadata": {
    "provider": "Oxford University Press",
    "schema": "RetrieveEntry" },
  "results": [
    {
      "id": "profligate",
      "lexicalEntries": [
        {
          "entries": [
            {
              "definitions": [
                "recklessly extravagant or wasteful in the use of resources"
              ],
            },
          ],
        },
      ],
    },
  ],
}

```

Enter your NAME and SID number

NAME: mohn, Geoffrey

Student ID Number: 912568148

Here is a very minimal Node/Express Web Server. It needs to answer dictionary lookup queries. For example, when it gets a POST request to the url /lookup containing the JSON { word: "profligate"}, it should return a JSON definition, { definition: "Recklessly extravagant or wasteful in the use of resources."}. Add some code to the Server to do this using the Oxford API. Indicate at which line or lines your new code should be added to the Server.

```
1 const express = require("express");
2 const fetch = require("cross-fetch");
3 const bodyParser = require("body-parser");
4 const db = require('./sqlWrap');
5
6 const app = express();
7 app.use(bodyParser.json());
8 // listen for requests :)
9 const listener = app.listen(3000, () => {
10   console.log("The static server is listening on port " + listener.address().port);
11 });
```

after 8 & before 9
In 8: app.post("/lookup", async function(req, res, next) {
 let defn = req.definitions
 return res.send()

In 8: app.get(api..., async function(req, res) {
 let wordDef = await fetch(api)
 res.send(stringify(wordDef));



Name <i>Mahn, Geoffrey</i>	Version <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E
ID <i>912568148</i>	Other
Section	Marking Instructions
Date <i>6/8/22</i>	Be sure to completely fill in the appropriate bubble. Example <input checked="" type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E

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