

**ENGSE203 Mid-term**

## ปรับปรุงฝึก My-app

app.js

ໜ້າຍ (after) ຂວາ (before)

```
my-app

src
  - package.json
  - MovieService.js
  - DisplayBoard.js
  - Movies.js
  - MovieEdit.js
  - MovieDetail.js
  - movies-modal.js
  - App.js
  - AppBackupCopy.js
  - AppBackupCopy.css

public
  - favicon.ico
  - index.html
  - manifest.json
  - robots.txt

components
  - CreateUserModal.js
  - Header.js
  - MovieList.js
  - MovieModal.js
  - MovieUpdate.js
  - services
    - MovieService.js
  - utils
    - fetchAllUsers.js
    - userService.js

utils
  - fetchAllUsers.js
  - userService.js

App.js
  1 import React, { useState, useEffect } from 'react';
  2 import 'bootstrap/dist/css/bootstrap.min.css';
  3 import './App.css';
  4 import Header from './components/Header';
  5 import DisplayBoard from './components/DisplayBoard';
  6 // ...
  7 import Movie from './components/Movie';
  8 import CreateMovie from './components/createMovie';
  9 import { getAllMovies, createMovie } from './services/MovieService';
 10
 11 function App() {
 12   // ...
 13   const [user, setUser] = useState();
 14   const [users, setUsers] = useState([]);
 15   const [numberOfUsers, setNumberOfUsers] = useState(0);
 16   // ...
 17   // ...
 18   const [movie, setMovie] = useState();
 19   const [movies, setMovies] = useState([]);
 20   const [numberOfMovies, setNumberOfMovies] = useState(0);
 21
 22   // ...
 23
 24   const userCreate = (e) => {
 25     e.preventDefault();
 26     createUser(user)
 27       .then(response => {
 28         console.log(response);
 29         setNumberofUsers(numberOfUsers+1)
 30       });
 31   }
 32
 33   const movieCreate = (e) => {
 34     e.preventDefault();
 35     createMovie(movie).then(response => {
 36       console.log(response);
 37       setNumberOfMovies(numberOfMovies + 1);
 38     });
 39   }
 40
 41   const fetchAllUsers = () => {
 42     getAllUsers()
 43       .then(users => {
 44         // ...
 45       });
 46   }
 47
 48   const fetchMovie = (id) => {
 49     getMovie(id)
 50       .then(movie => {
 51         // ...
 52       });
 53   }
 54
 55   const handleMovieDelete = (id) => {
 56     deleteMovie(id)
 57       .then(() => {
 58         // ...
 59       });
 60   }
 61
 62   const handleUserDelete = (id) => {
 63     deleteUser(id)
 64       .then(() => {
 65         // ...
 66       });
 67   }
 68
 69   const handleUserEdit = (id) => {
 70     editUser(id)
 71       .then(response => {
 72         // ...
 73       });
 74   }
 75
 76   const handleMovieEdit = (id) => {
 77     editMovie(id)
 78       .then(response => {
 79         // ...
 80       });
 81   }
 82
 83   const handleUserUpdate = (id) => {
 84     updateMovie(id)
 85       .then(response => {
 86         // ...
 87       });
 88   }
 89
 90   const handleMovieUpdate = (id) => {
 91     updateUser(id)
 92       .then(response => {
 93         // ...
 94       });
 95   }
 96
 97   const handleUserLogout = () => {
 98     logoutUser()
 99       .then(() => {
100         // ...
101       });
102   }
103
104   const handleMovieLogout = () => {
105     logoutMovie()
106       .then(() => {
107         // ...
108       });
109   }
110
111   const handleUserLogout = () => {
112     logoutUser()
113       .then(() => {
114         // ...
115       });
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122       });
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127       .then(() => {
128         // ...
129       });
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141       .then(() => {
142         // ...
143       });
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148       .then(() => {
149         // ...
150       });
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1000 
```

The screenshot shows a code editor with several tabs open, indicating a multi-component React application with associated Redux state management.

- MyApp**: The main application component.
- App.js**: The entry point of the application.
- App.js (copy)**: A copy of the App.js file.
- DisplayUser.js**: A component for displaying user information.
- Movies.js**: A component for displaying movies.
- MoviesEdit.js**: A component for editing movies.
- MoviesList.js**: A component for listing movies.
- Movie.js**: A component for displaying a single movie.
- MovieForm.js**: A form component for creating or updating movies.
- services**: A folder containing service-related logic.
- store**: The Redux store configuration.
- storeService.js**: A service for interacting with the store.
- MovieService.js**: A service for managing movies.
- UserService.js**: A service for managing users.
- AppContext.js**: A context provider for the application.
- AppContextCopy.js**: A copy of the AppContext.js file.
- index.js**: The root index file.
- package.json**: The project's package configuration.
- README.md**: The project's README file.

The code itself is a combination of functional components and hooks:

```
const fetchAllMovies = () => {
  getMovies().then(movies) => {
    console.log(movies);
    setMovies(movies);
    setNumberOfMovies(movies.length);
  };
};

useEffect(() => {
  /* */
  getUsers();
  .then(users) => {
    console.log(users);
    setUsers(users);
    setNumberOfUsers(users.length);
  };
});

getAllMovies().then(movies) => {
  /* */
  console.log(movies);
  setMovies(movies);
  setNumberOfMovies(movies.length);
};

const onChangeForm = (e) => {
  if (e.target.name === 'firstname') {
    user.firstname = e.target.value;
  } else if (e.target.name === 'lastname') {
    user.lastname = e.target.value;
  } else if (e.target.name === 'email') {
    user.email = e.target.value;
  }
  setUser(user);
};

const onChangeForm = (e) => {
  if (e.target.name === 'firstname') {
    user.firstname = e.target.value;
  } else if (e.target.name === 'lastname') {
    user.lastname = e.target.value;
  } else if (e.target.name === 'email') {
    user.email = e.target.value;
  }
  setUser(user);
};

const logUsers = () => {
  setUsers(users);
  setNumberOfUsers(users.length);
};

useEffect(() => {
  getUsers();
  .then(users) => {
    console.log(users);
    setUsers(users);
    setNumberOfUsers(users.length);
  };
});

getAllMovies()
  .then(movies) => {
    console.log(movies);
    setMovies(movies);
    setNumberOfMovies(movies.length);
  }
};
```

```

CreateUser.js (Left):
```js
const onChangeForm = (e) => {
  if (e.target.name === "title") {
    movie.title = e.target.value;
  } else if (e.target.name === "genre") {
    movie.genre = e.target.value;
  } else if (e.target.name === "director") {
    movie.director = e.target.value;
  } else if (e.target.name === "release_year") {
    movie.release_year = e.target.value;
  }
  setMovie(movie);
}

return (
  <div className="App">
    <header>
      <h1>Movies</h1>
    </header>
    <div className="container mrgnbtm">
      <div className="row">
        <div className="col-md-8">
          <CreateUser
            user={user}
            onChangeForm={onChangeForm}
            createMovie={createMovie}
            />
        </div>
        <div className="col-md-4">
          <DisplayBoard
            numberOfMovies={numberOfMovies}
            getAllMovies={fetchAllMovies}
            />
        </div>
      </div>
    </div>
    <div className="row mrgnbtm">
      <Users users={users}></Users>
    </div>
  </div>
)
```

App.js (Right):
```js
return (
  <div className="App">
    <header>
      <h1>Movies</h1>
    </header>
    <div className="container mrgnbtm">
      <div className="row">
        <div className="col-md-8">
          <CreateUser
            user={user}
            onChangeForm={onChangeForm}
            createMovie={createMovie}
            />
        </div>
        <div className="col-md-4">
          <DisplayBoard
            numberOfUsers={numberOfUsers}
            getAllUsers={fetchAllUsers}
            />
        </div>
      </div>
    </div>
    <div className="row mrgnbtm">
      <Users users={users}></Users>
    </div>
  </div>
)
```

```

โดยการ import Header, DisplayBoard, Movies, CreateMovie นำเข้าฟังก์ชัน getAllMovies และ CreateMovie จาก Movie Service

## -CreateMovie.js

```

CreateMovies.js (Left):
```js
import React from 'react';

const CreateMovies = ({onChangeForm, createMovie}) => {
  return (
    <div className="container">
      <div className="row">
        <div className="col-md-7 mrgnbtm">
          <h2>Create Movies</h2>
          <form>
            <div className="row">
              <div className="form-group col-md-6">
                <label htmlFor="exampleInputEmail">Title:</label>
                <input type="text" onChange={(e) => onChangeForm(e)} className="form-control" name="title" id="title" aria-describedby="emailHelp" placeholder="Title" />
              </div>
              <div className="form-group col-md-6">
                <label htmlFor="exampleInputPassword">Genre:</label>
                <input type="text" onChange={(e) => onChangeForm(e)} className="form-control" name="genre" id="genre" placeholder="Genre" />
              </div>
            </div>
            <div className="row">
              <div className="form-group col-md-12">
                <label htmlFor="exampleInputEmail">Director:</label>
                <input type="text" onChange={(e) => onChangeForm(e)} className="form-control" name="director" id="director" aria-describedby="emailHelp" placeholder="Director" />
              </div>
            </div>
            <div className="row">
              <div className="form-group col-md-12">
                <label htmlFor="exampleInputEmail">Release:</label>
                <input type="text" onChange={(e) => onChangeForm(e)} className="form-control" name="release_year" id="release_year" aria-describedby="emailHelp" placeholder="Release" />
              </div>
            </div>
            <button type="button" onClick={() => createMovie()} className="btn btn-danger">Create

```

แก้ไขชื่อ Colum เป็น (title, genre, director,) และเพิ่ม Colum release\_year

## -Movies.js

```
 45:   return (
 46:     <div className="container">
 47:       <div style={{ display: "flex", justifyContent: "flex-start", alignItems: "center" }}>
 48:         <h2>Movies</h2>
 49:         <div style={{ display: "flex", alignItems: "center" }>
 50:           <input
 51:             type="text"
 52:             className="Search_input"
 53:             style={{
 54:               padding: "10px",
 55:               font-size: "16px",
 56:               border: "1px solid #ccc",
 57:               borderRadius: "5px",
 58:               width: "300px",
 59:               marginRight: "10px",
 60:             }
 61:           placeholder="Enter The Title Of Movie"
 62:           value={searchText}
 63:           onChange={(e) => setSearchText(e.target.value)}
 64:         />
 65:         <button
 66:           className="btn btn-warning"
 67:           style={{ padding: "10px", borderRadius: "5px" }}
 68:           onClick={handleSearch}
 69:         >
 70:           Search
 71:         </button>
 72:       </div>
 73:     </div>
 74:   </div>
 75: <br />
 76:
 77:
 78: <table className="table table-bordered table-hover">
 79:   <thead className="table-dark">
 80:     <tr>
 81:       <th>Movie Id</th>
 82:       <th>Title</th>
 83:       <th>Genre</th>
 84:       <th>Director</th>
 85:       <th>Release</th>
 86:     </tr>
 87:   </thead>
 88:   <tbody>
 89:     {movieTable}
```

```
 23:   return(
 24:     <div className="container">
 25:       <h2>Movies</h2>
 26:       <table className="table table-bordered">
```

```
index.js
1 import React, { useState } from 'react';
2 import './App.css';
3 
4 export const Movies = ({ movies }) => {
5   const [searchInput, setSearchInput] = useState('');
6   const [searchResults, setSearchResults] = useState([]);
7   const [isSearching, setIsSearching] = useState(false);
8 
9   const handleSearch = async () => {
10     try {
11       const response = await fetch(`http://localhost:3001/api/movie/search?search_text=${searchText}`);
12       const data = await response.json();
13 
14       if (data.returnCode === 1) {
15         setSearchResults(data);
16         setIsSearching(true);
17       } else {
18         setSearchResults([]);
19         setIsSearching(false);
20       }
21     } catch (error) {
22       console.error('Error searching for movies', error);
23     }
24   };
25 
26 
27   if (movies.length === 0) return null;
28 
29   const MovieRow = (movie, index) => {
30 
31     return (
32       <tr key={index} className={index % 2 === 0 ? "odd" : "even"}>
33         <td>{index + 1}</td>
34         <td>{movie.title}</td>
35         <td>{movie.genre}</td>
36         <td>{movie.director}</td>
37         <td>{movie.release_year}</td>
38       </tr>
39     );
40   };
41 
42   const movieTableBody = isSearching ?
43     searchResults.map((movie, index) => MovieRow(movie, index)) :
44     movies.map((movie, index) => MovieRow(movie, index));
45 
46   return (
47     <table border="1">
48       <thead>
49         <tr>
50           <th>Index</th>
51           <th>Title</th>
52           <th>Genre</th>
53           <th>Director</th>
54           <th>Release Year</th>
55         </tr>
56       </thead>
57       <tbody>
58         {movieTableBody}
59       </tbody>
60     </table>
61   );
62 }
63 
64 export default App;
```

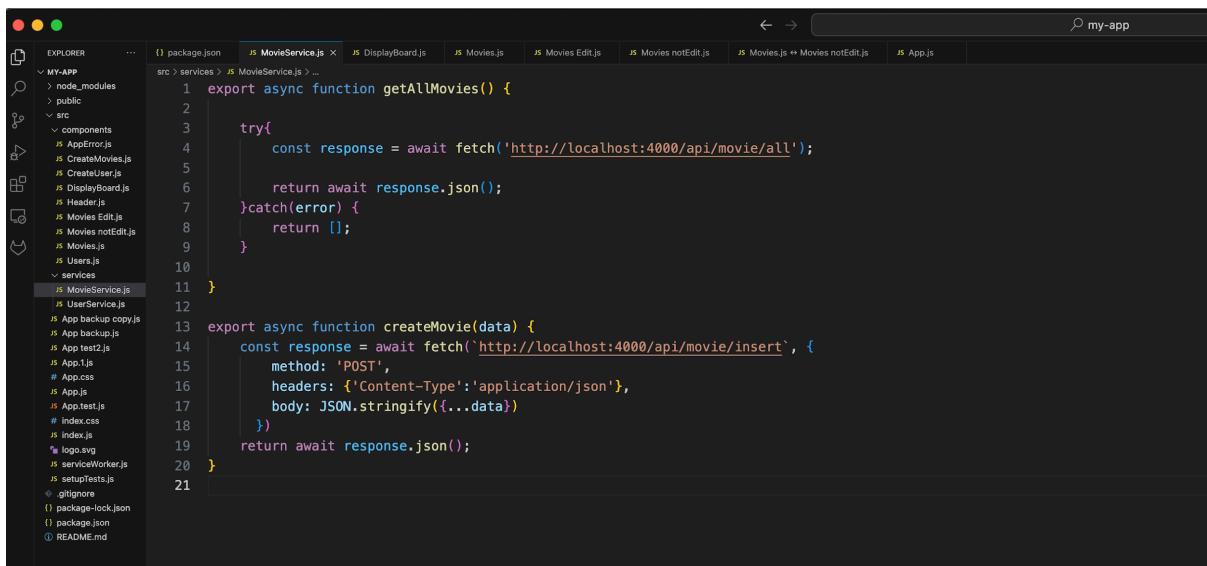
```
my-app.css
1 .App {
2   font-family: sans-serif;
3   text-align: center;
4   margin-top: 10px;
5 }
6 
7 .App-header {
8   background-color: #282c34;
9   color: white;
10 display: flex;
11 justify-content: space-between;
12 align-items: center;
13 padding: 10px;
14 }
15 
16 .App-header h1 {
17   margin: 0;
18 }
19 
20 .App-menu {
21   position: absolute;
22   right: 0;
23   top: 0;
24   list-style-type: none;
25   padding: 0;
26   margin: 0;
27 }
28 
29 .App-menu li {
30   display: inline-block;
31   margin-right: 10px;
32 }
33 
34 .App-menu li a {
35   color: inherit;
36   text-decoration: none;
37 }
38 
39 .App-menu li a:hover {
40   color: #007bff;
41   text-decoration: underline;
42 }
```



The screenshot shows a browser window with the URL "my-app" in the address bar. The page content is as follows:

```
<div>
  <table>
    <thead>
      <tr>
        <th>Title</th>
        <th>Genre</th>
        <th>Year</th>
      </tr>
    </thead>
    <tbody>
      <tr><td colspan="3">No movies found!</td></tr>
    </tbody>
  </table>
</div>
```

## -MovieService.js

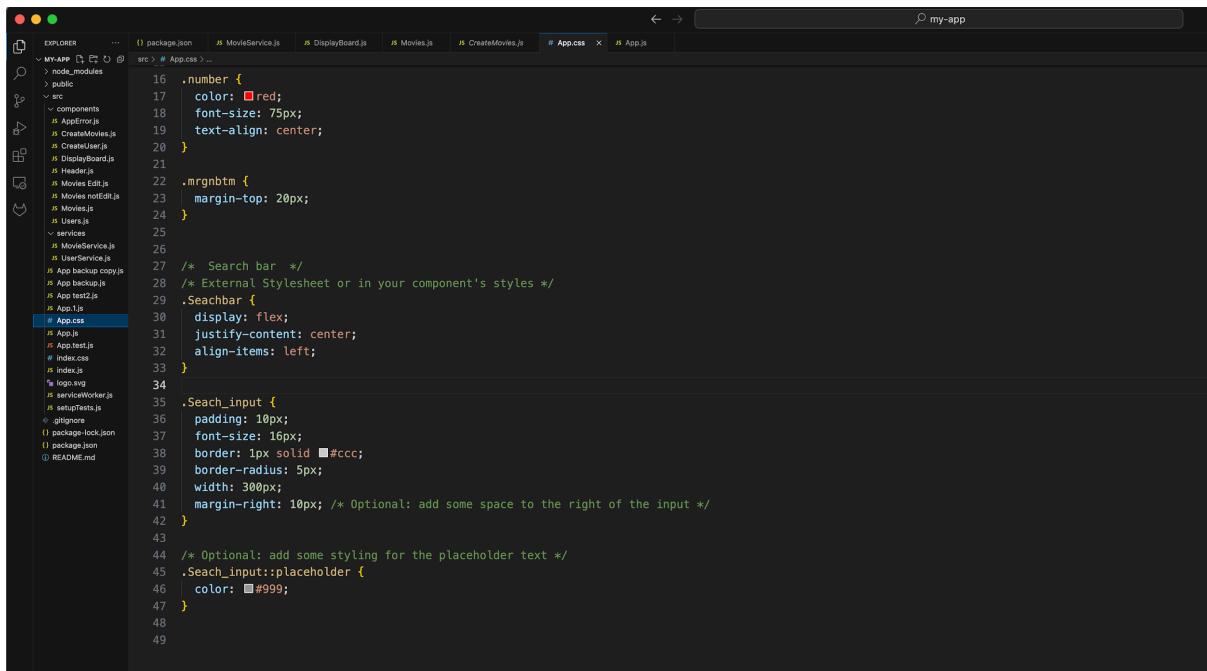


The screenshot shows the VS Code interface with the title bar "my-app". The Explorer sidebar on the left lists files and folders like package.json, node\_modules, public, src, components, services, and various JavaScript files. The main editor area displays the MovieService.js code:

```
1 export async function getAllMovies() {
2
3     try{
4         const response = await fetch('http://localhost:4000/api/movie/all');
5
6         return await response.json();
7     }catch(error) {
8         return [];
9     }
10 }
11
12 export async function createMovie(data) {
13     const response = await fetch('http://localhost:4000/api/movie/insert', {
14         method: 'POST',
15         headers: {'Content-Type':'application/json'},
16         body: JSON.stringify({...data})
17     })
18     return await response.json();
19 }
20
21 }
```

ແກ້ໄຂ Port ເປັນ 4000

## App.css



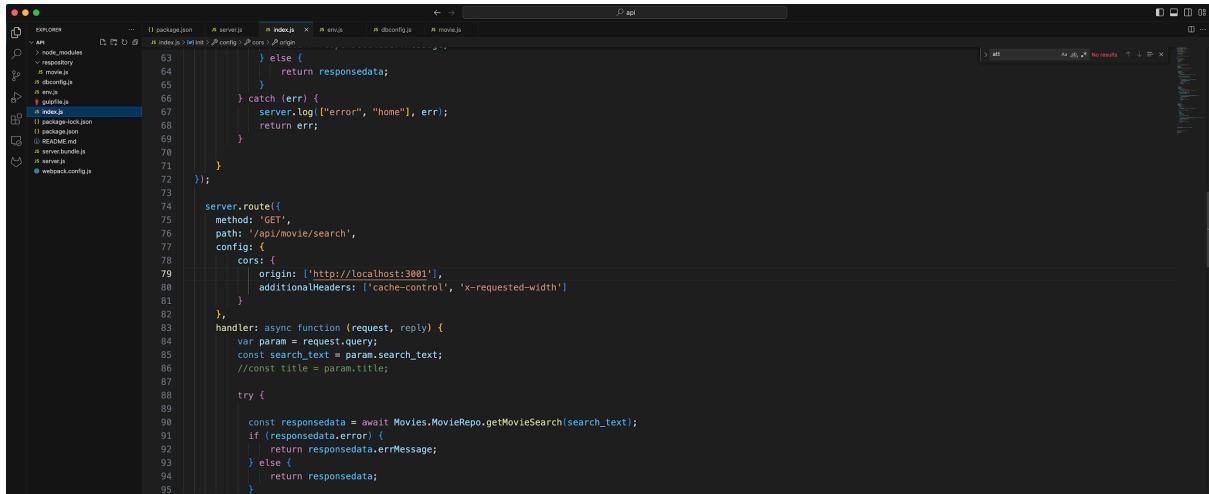
The screenshot shows the VS Code interface with the title bar "my-app". The Explorer sidebar on the left lists files and folders like package.json, node\_modules, public, src, components, services, and various JavaScript files. The main editor area displays the App.css code:

```
16 .number {
17     color: red;
18     font-size: 75px;
19     text-align: center;
20 }
21
22 .mrnbtm {
23     margin-top: 20px;
24 }
25
26
27 /* Search bar */
28 /* External Stylesheet or in your component's styles */
29 .Searchbar {
30     display: flex;
31     justify-content: center;
32     align-items: left;
33 }
34
35 .Search_input {
36     padding: 10px;
37     font-size: 16px;
38     border: 1px solid #ccc;
39     border-radius: 5px;
40     width: 300px;
41     margin-right: 10px; /* Optional: add some space to the right of the input */
42 }
43
44 /* Optional: add some styling for the placeholder text */
45 .Search_input::placeholder {
46     color: #999;
47 }
48
49
```

ເພີ່ມ ເມັນ Search bar

# ฝึก API

## -index.js



```
63     } else {
64         return res.send('Home');
65     }
66 } catch (err) {
67     server.log('error', 'home', err);
68     return err;
69 }
70 }
71 );
72 });
73
74 server.route({
75     method: 'GET',
76     path: '/api/movie/search',
77     config: {
78         cors: {
79             origin: ['http://localhost:3001'],
80             additionalHeaders: ['cache-control', 'x-requested-width']
81         }
82     },
83     handler: async function (request, reply) {
84         var param = request.query;
85         const search_text = param.search_text;
86         //const title = param.title;
87
88         try {
89
90             const responddata = await Movies.MovieRepo.getMovieSearch(search_text);
91             if (responddata.error) {
92                 return responddata.errorMessage;
93             } else {
94                 return responddata;
95             }
96         }
97     }
98 })
99 }
```

เพิ่ม Port ตรง Origin {<http://localhost:3001>}

## หน้า Web

React With NodeJS

### Create Movies

Title      Director      Release

### Movies

Enter The Title Of Movie

Movie Id	Title	Genre	Director	Release
1	Joker	psychological thriller	Todd Phillips	2019
2	test1	t	t	2024
3	test2	t	t	2024
4	test3	t	adda	2000

Movies Created  
5

## เมนู Search

localhost:3001

React With NodeJS

### Create Movies

Title      Director      Release

### Movies

joker

Movie Id	Title	Genre	Director	Release
1	Joker	psychological thriller	Todd Phillips	2019

Movies Created  
5

## web before

The screenshot shows a web application interface. At the top, a red header bar displays the title "React With NodeJS". Below the header, there are two main sections: "Create Movies" on the left and "Movies Created" on the right.

**Create Movies:** This section contains four input fields: "Title" (with placeholder "Title"), "Genre" (with placeholder "Genre"), "Director" (with placeholder "Director"), and "Release" (with placeholder "Release"). A red "Create" button is located below these fields.

**Movies Created:** This section features a green background with a large red number "5" in the center. Below the number is a yellow "Get all Movies" button.

**Movies:** This section includes a search bar with the placeholder "Enter The Title Of Movie" and a yellow "Search" button. Below the search bar is a table with the following data:

Movie Id	Title	Genre	Director	Release
1	Joker	psychological thriller	Todd Phillips	2019
2	test1	t	t	2024
3	test2	t	t	2024
4	test3	t	adda	2000

## web after

The screenshot shows the same web application interface, but with a dark blue header bar instead of a red one. The rest of the layout remains identical to the "before" version, including the "Create Movies" form, the "Movies Created" summary, and the "Movies" table.

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