

ENGSE203 - Mid-term (Take-home)

กำหนดส่ง 28 มกราคม 2567 ก่อน 23:59

Reactjs (Front-end) - งานเพิ่ม Movies (งานเดี่ยว)

1. ปรับ LAB01 ให้เป็นการเรียกใช้ API ที่ติดต่อกับ MySQL moviedb

React With NodeJS

Create User

First Name

Last Name

First Name

Last Name

Email

Email

Create

Users Created

4

Get all Users

Users

| User Id | Firstname | Lastname | Email |
|---------|-----------|----------|---------------|
| 1 | first1 | last1 | abc@gmail.com |
| 2 | first2 | last2 | abc@gmail.com |
| 3 | first3 | last3 | abc@gmail.com |
| 4 | first4 | last4 | abc@gmail.com |

สร้าง 2 ไฟล์ นี้ใน ฝั่ง Front-end

components/Movies.js

```
import React from 'react'

export const Movies = ({movies}) => {

  console.log('movies length:::', movies.length)
  if (movies.length === 0) return null

  const MovieRow = (movie,index) => {

    return(
      <tr key = {index} className={index%2 === 0?'odd':'even'}>
        <td>{index + 1}</td>
        <td>{movie.title}</td>
        <td>{movie.genre}</td>
        <td>{movie.director}</td>
        <td>{movie.release_year}</td>
      </tr>
    )
  }

  const movieTable = movies.map((movie,index) => MovieRow(movie,index))

  return(
    <div className="container">
      <h2>Movies</h2>
      <table className="table table-bordered">
        <thead>
          <tr>
            <th>Movie Id</th>
            <th>Title</th>
            <th>Genre</th>
            <th>Director</th>
            <th>Release</th>
          </tr>
        </thead>
        <tbody>
          {movieTable}
        </tbody>
      </table>
    </div>
  )
}
```

services/MovieService.js

```
export async function getAllMovies() {  
  try{  
    //const response = await fetch('/api/users');  
    const response = await fetch('http://localhost:3001/api/movie/all');  
    //const response = await fetch('/api/movie/all');  
    return await response.json();  
  }catch(error) {  
    return [];  
  }  
}  
  
//---- ยังไม่เสร็จ ----  
export async function createMovie(data) {  
  const response = await fetch(`/api/user`, {  
    method: 'POST',  
    headers: {'Content-Type': 'application/json'},  
    body: JSON.stringify({user: data})  
  })  
  return await response.json();  
}
```

ปรับปรุง App.js

```
import React, { useState, useEffect } from 'react';  
import 'bootstrap/dist/css/bootstrap.min.css';  
import './App.css';  
import { Header } from './components/Header'  
import { Users } from './components/Users'  
import { DisplayBoard } from './components/DisplayBoard'  
import CreateUser from './components/CreateUser'  
import { getAllUsers, createUser } from './services/UserService'  
//-----  
import { Movies } from './components/Movies'  
import { getAllMovies, createMovie } from './services/MovieService'  
  
function App() {  
  
  const [user, setUser] = useState({})  
  const [users, setUsers] = useState([])  
  const [numberOfUsers, setNumberOfUsers] = useState(0)  
  
  //-----  
  
  const [movies, setMovies] = useState([])
```

```

const userCreate = (e) => {

  createUser(user)
  .then(response => {
    console.log(response);
    setNumberOfUsers(numberOfUsers+1)
  });
}

const fetchAllUsers = () => {
  getAllUsers()
  .then(users => {
    console.log(users)
    setUsers(users);
    setNumberOfUsers(users.length)
  });
}

useEffect(() => {

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

  getAllMovies()
  .then(movies => {
    console.log(movies)
    setMovies(movies);
    //setNumberOfUsers(users.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)
}

return (
  <div className="App">
    <Header></Header>
    <div className="container mrgnbtm">
      <div className="row">

```

```
    <div className="col-md-8">
      <CreateUser
        user={user}
        onChangeForm={onChangeForm}
        createUser={userCreate}
      >
    </CreateUser>
  </div>
  <div className="col-md-4">
    <DisplayBoard
      numberOfUsers={numberOfUsers}
      getAllUsers={fetchAllUsers}
    >
  </DisplayBoard>
</div>
</div>
<div className="row mrgnbtm">
  <Users users={users}></Users>
</div>
<div className="row mrgnbtm">
  <Movies movies={movies}></Movies>
</div>
</div>
);
}

export default App;
```

***** งานทำเพิ่ม *****

MovieService.js

```
export async function getAllMovies() {
  try{
    //const response = await fetch('/api/users');
    const response = await fetch('http://localhost:3001/api/movie/all');
    //const response = await fetch('/api/movie/all');
    return await response.json();
  }catch(error) {
    return [];
  }
}

//http://localhost:3001/api/movie/insert
//---- ยังไม่เสร็จ ----
export async function createMovie(data) {
  const response = await fetch(`http://localhost:3001/api/movie/insert`, {
    method: 'POST',
    headers: {'Content-Type': 'application/json'},
    body: JSON.stringify({user: data})
  })
  return await response.json();
}
```

App.js

```
import React, { useState, useEffect } from 'react';
import 'bootstrap/dist/css/bootstrap.min.css';
import './App.css';
import { Header } from './components/Header'
import { Users } from './components/Users'
import { DisplayBoard } from './components/DisplayBoard'
import CreateUser from './components/CreateUser'
import { getAllUsers, createUser } from './services/UserService'
//-----
import { Movies } from './components/Movies'
import CreateMovie from './components/CreateMovie'
import { getAllMovies, createMovie } from './services/MovieService'

function App() {

  const [user, setUser] = useState({})
  const [users, setUsers] = useState([])
  const [numberOfUsers, setNumberOfUsers] = useState(0)

  //-----
  const [movie, setMovie] = useState({})
  const [movies, setMovies] = useState([])
```

```

const [numberOfMovies, setNumberOfMovies] = useState(0)

const userCreate = (e) => {

  createUser(user)
  .then(response => {
    console.log(response);
    setNumberOfUsers(numberOfUsers+1)
  });
}

const movieCreate = (e) => {

  createMovie(movie)
  .then(response => {
    console.log(response);
    setNumberOfMovies(numberOfMovies+1)
  });
}

/*
const fetchAllUsers = () => {
  getAllUsers()
  .then(users => {
    console.log(users)
    setUsers(users);
    setNumberOfUsers(users.length)
  });
}
*/

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

useEffect(() => {
/*
  getAllUsers()
  .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 === '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_yesr') {
        movie.release_yesr = e.target.value;
    }
    setMovie(movie)
}

return (
    <div className="App">
        <Header></Header>
        <div className="container mrgnbtm">
            <div className="row">
                {/* <div className="col-md-8">
                    <CreateUser
                        user={user}
                        onChangeForm={onChangeForm}
                        createUser={userCreate}
                    >
                    </CreateUser>
                </div> */}
                <div className="col-md-8">
                    <CreateMovie
                        user={user}
                        onChangeForm={onChangeForm}
                        createMovie={movieCreate}
                    >
                    </CreateMovie>
                </div>
                <div className="col-md-4">

```



```

        <DisplayBoard
          numberOfMovies={numberOfMovies}
          getAllMovies={fetchAllMovies}
        >
      </DisplayBoard>
    </div>
  </div>      {/* <div className="row mrgnbtm">
    <Users users={users}></Users>
  </div> */}
  <div className="row mrgnbtm">
    <Movies movies={movies}></Movies>
  </div>
</div>
);
}

export default App;

```

Movies.js

```

import React from 'react'

export const Movies = ({movies}) => {

  console.log('movies length:::', movies.length)
  if (movies.length === 0) return null

  const MovieRow = (movie,index) => {

    return(
      <tr key = {index} className={index%2 === 0?'odd':'even'}>
        <td>{index + 1}</td>
        <td>{movie.title}</td>
        <td>{movie.genre}</td>
        <td>{movie.director}</td>
        <td>{movie.release_year}</td>
      </tr>
    )
  }

  const movieTable = movies.map((movie,index) => MovieRow(movie,index))

  return(
    <div className="container">
      <h2>Movies</h2>
      <table className="table table-bordered">
        <thead>
          <tr>
            <th>Movie Id</th>
            <th>Title</th>

```

```

        <th>Genre</th>
        <th>Director</th>
        <th>Release</th>
      </tr>
    </thead>
    <tbody>
      {movieTable}
    </tbody>
  </table>
</div>
)
}

```

DisplayBoard.js

```

import React from 'react'

export const DisplayBoard = ({numberOfMovies, getAllMovies}) => {

  const headerStyle = {

    width: '100%',
    padding: '2%',
    backgroundColor: "red",
    color: 'white',
    textAlign: 'center'
  }

  return(
    <div style={{backgroundColor:'green'}} className="display-board">
      <h4 style={{color: 'white'}}>Movies Created</h4>
      <div className="number">
        {numberOfMovies}
      </div>
      <div className="btn">
        <button type="button" onClick={(e) => getAllMovies()} className="btn
btn-warning">Get all Movies</button>
      </div>
    </div>
  )
}

```