## ฝั่ง frontend

```
Js Movies.js U
                          X Welcome
                                                                                 Js MovieService.js U
                                          package.json M
> in build
                           lab4 > react-nodejs-example > my-app > src > Js App.js > 分 App
                                  You, 5 hours ago | 2 authors (You and others)
 > node_modules
                                  import React, { useState, useEffect } from "react";
 > | public
                                 import "bootstrap/dist/css/bootstrap.min.css";
                                  import "./App.css";

✓ kap src

                                  import { Header } from "./components/Header";

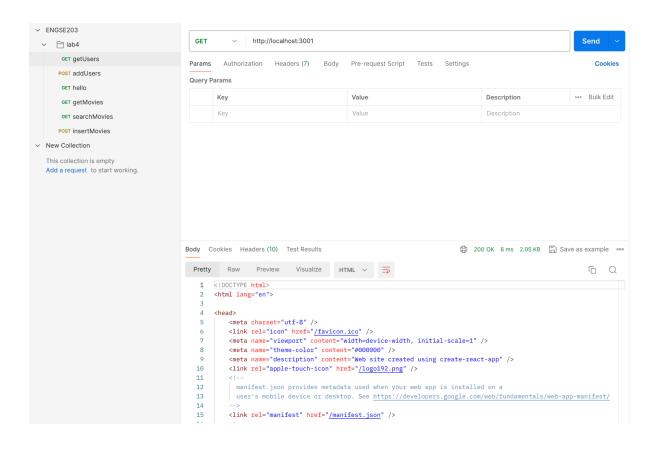
∨ Image: components

                                  import { Users } from "./components/Users";
                                  import { DisplayBoard } from "./components/DisplayBoard";
      Js AppError.js
                                  import CreateUser from "./components/CreateUser";
      Js CreateUser.js
                                  import { getAllUsers, createUser } from "./services/UserService";
      Js DisplayBoard.js
                                  import { Movies } from "./components/Movies";
      Js Header.js
                                  import { getAllMovies, createMovie } from "./services/MovieService";
      Js Movies.js
                                  function App() {
      Js Users.js
                            14
                                   const [user, setUser] = useState({});
  const [users, setUsers] = useState([]);
      Js MovieServi... U
                            16
                                   const [numberOfUsers, setNumberOfUsers] = useState(0);
      Js UserService.js
     Js App backup.js U
                                    const [movies, setMovies] = useState([]);
     App.css
     Js App.js
                                   const userCreate = (e) => {
     App.test.js
                                     createUser(user).then((response) => {
                                       console.log(response);
     index.css
                                       setNumberOfUsers(numberOfUsers + 1);
     Js index.js
     * logo.svg
                            28
     Js serviceWorker.js
                                   const fetchAllUsers = () => {
                                     getAllUsers().then((users) => {
                            30
     setupTests.js
                                       console.log(users);
   .gitignore
                                       setUsers(users);
   package-lock.... U
                                       setNumberOfUsers(users.length);
   package.json
   README.md
                                   useEffect(() => {
  .dockerignore
                                     getAllUsers().then((users) => {
                            38
  .gitignore
                                       console.log(users);
  Dockerfile
                                        setUsers(users);
```

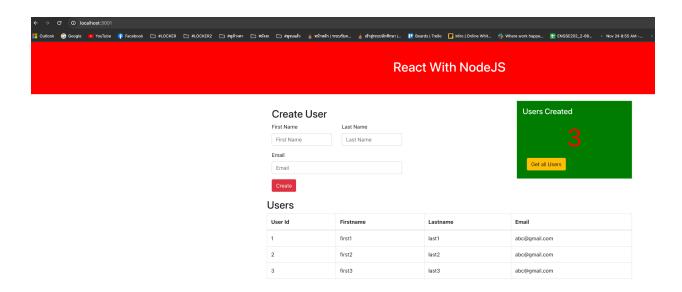
รูปที่ 1 app.js ไม่ต้องแก้ไข

```
lab4 > react-nodejs-example > my-app > (§) package.json > {} dependencies
       You, 4 hours ago | 2 authors (bbachi and others)
       {
         "name": "my-app",
         "version": "0.1.0",
         "private": true,
         "dependencies": {
           "@testing-library/jest-dom": "^4.2.4",
           "@testing-library/react": "^9.5.0",
           "@testing-library/user-event": "^7.2.1",
  9
           "bootstrap": "^4.5.0",
           "react": "^16.13.1",
           "react-bootstrap": "^1.0.1",
           "react-dom": "^16.13.1",
           "react-scripts": "3.4.1"
         Я,
         Debug
         "scripts": {
           "start": "PORT=3001 react-scripts start",
           "build": "react-scripts build",
           "test": "react-scripts test",
           "eject": "react-scripts eject"
         "proxy": "http://localhost:4000",
         "eslintConfig": {
           "extends": "react-app"
         },
         "browserslist": {
           "production": [
             ">0.2%",
             "not dead",
             "not op_mini all"
           "development": [
             "last 1 chrome version",
             "last 1 firefox version",
             "last 1 safari version"
```

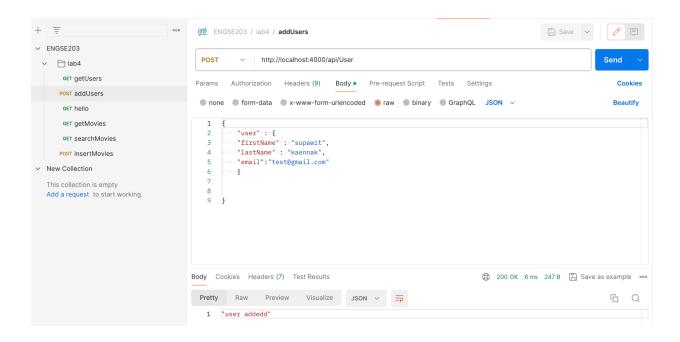
รูปที่ 2 package.json เปลี่ยน port เป็น 4000



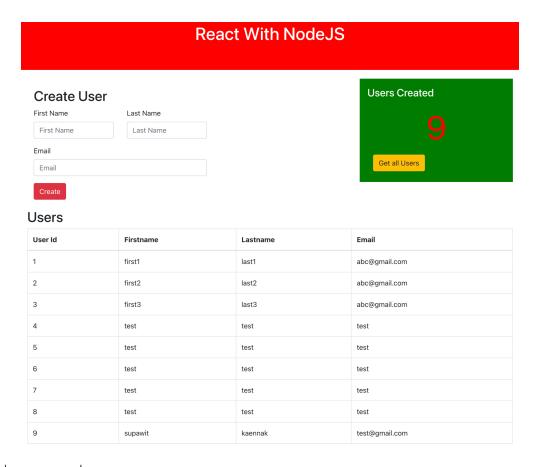
รูปที่ 3 Postman ใช้ทดสอบ get ข้อมูลจาก ตาราง users



รูปที่ 4 ผลลัพธ์หน้า react



รูปที่ 5 ใช้ postman ทดสอบ post ข้อมูล โดยเขียนเป็น ไฟล์ json



รูปที่ 6 ผลลัพธ์เมื่อทดสอบ post ค่า และทำการกด get all users

## ส่วน API

```
server.js > 🕪 users
                   中にはは
∨ API
                                              const express = require('express');
  > node_modules
                                              const path = require('path');

✓ respository

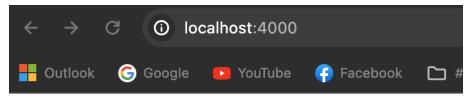
                                              const app = express(),
                                                   bodyParser = require("body-parser");
       Js movie.js
                                                   port = 4000;
     Js dbconfig.js
     Js env.js
                                 U
                                                 firstName: "first1",
     f gulpfile.js
                                                 lastName: "last1",
     Js index.js
                                                 email: "abc@gmail.com"
     package-lock.json
                                                 firstName: "first2",
lastName: "last2",
     package.json
                                М
                                                 email: "abc@gmail.com"
     • README.md
     server.bundle.js
                                                 firstName: "first3",
lastName: "last3",
     server.js
                                М
                                                 email: "abc@gmail.com"
     webpack.config.js
                                              app.use(bodyParser.json());
                                              app.use(express.static(path.join(__dirname, '../my-app/build')));
                                              app.get('/api/users', (req, res) => {
                                               console.log('api/users called!')
                                               res.json(users);
                                              app.post('/api/user', (req, res) => {
                                               const user = req.body.user;
                                               console.log('Adding user::::', user);
                                               users.push(user);
                                               res.json("user addedd");
```

รูปที่ 7 ไฟล์ server.js แก้ไข port เป็น 4000

```
    package.json > { } scripts > 
    dev

        "name": "react-nodejs-example",
        "version": "1.0.0",
        "description": "example project react with nodejs",
        "main": "server.js",
        Debug
        "scripts": {
         "start": "node server.bundle.js",
         "build": "webpack",
         "dev": "nodemon ./index.js localhost 4000" You, 1 second ago
        "repository": {
          "type": "git",
          "url": "git+https://github.com/bbachi/react-nodejs-example.git"
        "author": "Bhargav Bachina",
        "license": "ISC",
        "bugs": {
          "url": "https://github.com/bbachi/react-nodejs-example/issues"
        "homepage": "https://github.com/bbachi/react-nodejs-example#readme",
        "dependencies": {
          "@hapi/hapi": "^21.3.2",
          "@hapi/inert": "^7.1.0",
          "express": "^4.17.1",
          "http-proxy-middleware": "^1.0.4",
          "mysql": "^2.18.1"
        "devDependencies": {
          "del": "^5.1.0",
          "fancy-log": "^1.3.3",
          "gulp": "^4.0.2",
          "gulp-zip": "^5.0.1",
          "nodemon": "^2.0.4",
          "webpack": "^4.43.0",
          "webpack-cli": "^3.3.11",
          "webpack-stream": "^5.2.1"
```

รูปที่ 8 ไฟล์ package.json แก้ ตรง dev เปลี่ยนจาก server.js เป็น index.js

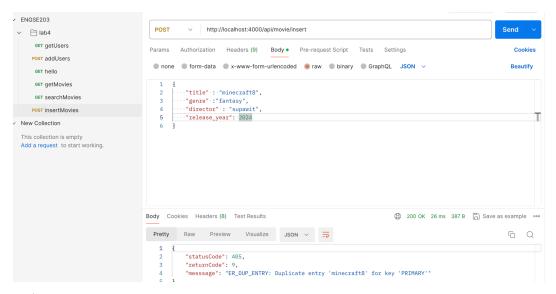


Welcome to API Back-end Ver. 1.0.0

รูปที่ 9 ทดสอบเข้าเว็บ

```
Js env.js U
Js server.js M
                                  us movie.js U X us dbconfig.js U
                                                                         Js index.js U
respository > J_S movie.js > \bigcirc postMovie > \bigcirc <function>
               console.log('post is: ', post);
               Query = 'INSERT INTO movies SET ?';
               pool.query(Query, post, function (error, results, fields) {
                    if (error) {
                       console.log('error_code_msg', error.code+': '+error.sqlMessage);
                        pool.end();
                        return resolve({
                         statusCode: 405,
                           returnCode: 9,
                           messsage: error.code+': '+error.sqlMessage,
                        console.log('results: ', results);
                        if(results.affectRows > 0){
                           pool.end();
                           return resolve({
                              statusCode: 200,
                                returnCode: 1,
                                message: 'Movie list was inserted'
```

รูปที่ 10 โค้ดในไฟล์ movie.js แก้ตามรูปภาพ



รูปที่ 11 postman ใช้เช็คการ post ข้อมูล

## กลับมาที่ส่วน frontend

```
lab4 > react-nodejs-example > my-app > src > components > __s Movies.js > [@] Movies > [@] Mo
    import React from 'react'
    export const Movies = ({movies}) => {
       console.log('movies length:::', movies.length)
        if (movies.length === 0) return null
       const MovieRow = (movie,index) => {
               {movie.title}
                  {movie.director}
                  {movie.release_year}
       const movieTable = movies.map((movie,index) => MovieRow(movie,index))
           <div className="container">
              <h2>Movies</h2>
              Movie Id
                    Release
```

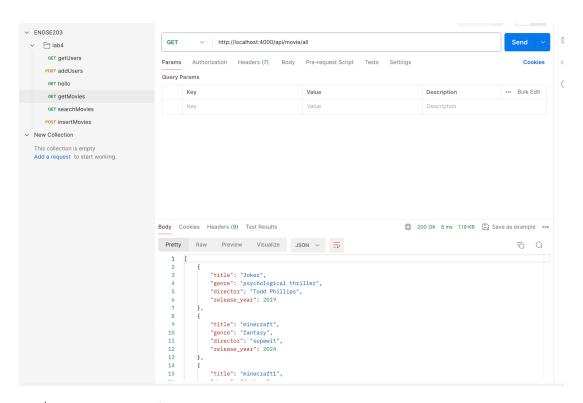
รูปที่ 12 โค้ดในไฟล์ .js แก้ตามรูปภาพ

รูปที่ 13 โคัดในไฟล์ movieservice.js แก้ตามรูปภาพ

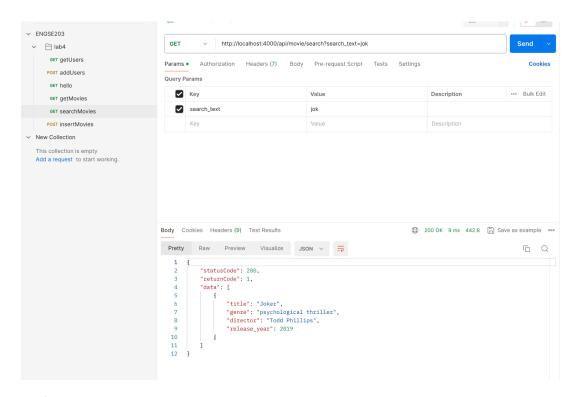
## กลับมาที่ส่วน API

```
Js server.js M
                  <sub>Js</sub> env.js U
                                    Js movie.js U
                                                                       Js dbconfig.js U X
Js dbconfig.js > [] dbconfig > / development
            //connectionLimit : 10,
           host: "localhost",
  5
            port: "3306",
           user: "root",
           password: "",
           database: "moviedb",
         production: {
           //connectionLimit : 10,
           host: "localhost",
           port: "3306",
           user: "root",
           password: "",
           database: "moviedb",
       };
       module.exports = dbconfig;
```

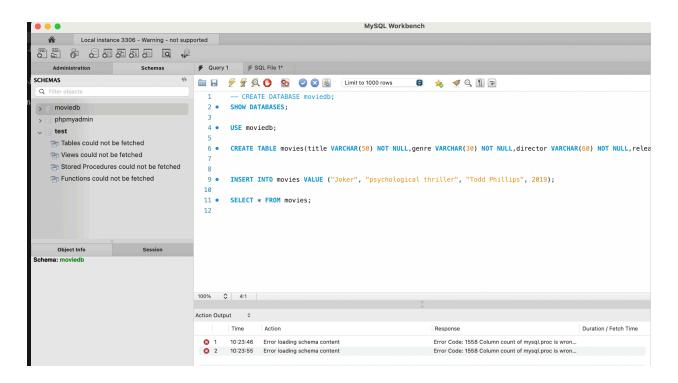
รูปที่ 14 โค้ดในไฟล์ dbconfig.js แก้ตามรูปภาพ



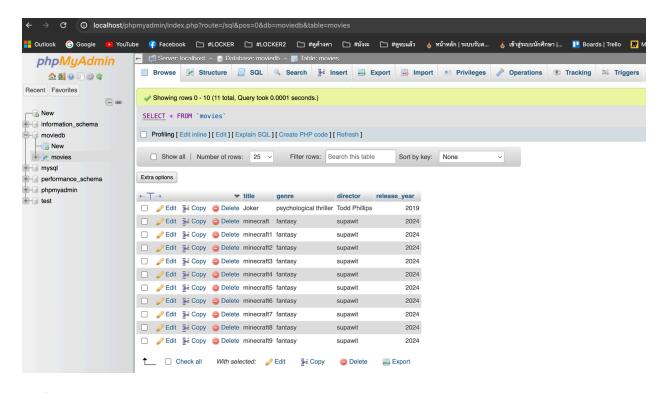
รูปที่ 15 postman ใช้เช็คการ get ข้อมูล ของ api/movie/all



รูปที่ 16 postman ใช้ get ข้อมูลของ api/movie/search



รูปที่ 17 mysql workbench ใช้ในการสร้างตาราง และ แทรกข้อมูล



รูปที่ 18 phpmyadmin เปิดไว้เปรียบเทียบกับ mysql workbench



รูปที่ 20 โค้ดในไฟล์ env.js แก้ตามรูปภาพ

```
us movie.js U
                                                   Js dbconfig.js U
                                                                      server.bundle.js
us index.js > ...
     const hapi = require('@hapi/hapi');
     const env = require('./env.js');
     const Movies = require('./respository/movie');
     const express = require('express');
     const app = express();
     const path = require('path');
            bodyParser = require("body-parser");
     const api_port = 4000;
      const web_port = 4001;
      const users = [
          firstName: "first1",
          lastName: "last1",
          email: "abc@gmail.com"
         firstName: "first2",
        lastName: "last2",
          email: "abc@gmail.com"
         firstName: "first3",
lastName: "last3",
          email: "abc@gmail.com"
          firstName: "first4",
          lastName: "last4",
          email: "abc4@gmail.com"
```

รูปที่ 21 โค้ดในไฟล์ index.js แก้ตามรูปภาพ



รูปที่ 22 เช็ค api/movie/all ผ่าน browser ดู