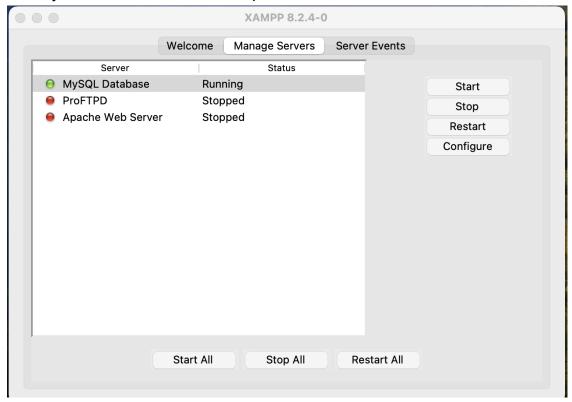
LAB 4 เปลี่ยน Port ของ backend(API) เป็น 4000 หน้า package.json และ server.js

```
{} package.json > {} scripts
        "name": "react-nodejs-example",
        "version": "1.0.0",
        "description": "example project react with nodejs",
        "main": "server.js",
         Debug
        "scripts": {
 7
          "start": "node server.bundle.js",
          "build": "webpack",
          "dev": "nodemon ./index.js localhost 4000"
JS server.js > ...
      const express = require('express');
      const path = require('path');
      const app = express(),
            bodyParser = require("body-parser");
            port = 4000;
```

แล้วรัน http://localhost:4000/api/users

```
← → ♂ ⑥ localhost:4000/api/users
☆ ♪ □ ♠ :
[{"firstName":"first1", "lastName":"last1", "email":"abc@gmail.com"}, {"firstName":"first2", "lastName":"last2", "email":"abc@gmail.com"}, {"firstName":"first4", "lastName":"last4", "email":"abc@gmail.com"}, {"firstName":"first4", "lastName":"last4", "email":"abc@gmail.com"}, {"firstName":"note", "lastName":"09", "email":"note@gmail.com"}]
```

เปิด MySQL Database ใน Xammp



สร้าง database



แสดงข้อมูล



สร้างหน้า index.js มาใน backend และใส่โคัด index.js

```
const hapi = require('@hapi/hapi');
const env = require('./env.js');
const Movies = require('./respository/movie');
const express = require('express');
const path = require('path');
| | bodyParser = require("body-parser");
const api_port = 4000;
const web_port = 4001;
console.log('Running Environment: ' + env);
    port: api_port,
host: '0.0.0.0',
routes: {
    cors: true
     method: "GET",
path: "/",
handler: () => {
    return '<h3> Welcome to API Back-end Ver. 1.0.0</h3>';
}
      server.route({
  method: 'GET',
  path: '/api/movie/all',
  config: {
                 origin: ['*'],
additionalHeaders: ['cache-control', 'x-requested-width']
         },
handler: async function (request, reply) {
    request_query;
                      const responsedata = await Movies.MovieRepo.getMovieList();
                   if (responsedata.error) {
    return responsedata.errMessage;
                    } else {
return responsedata;
```

```
server.route({
   method: 'GET',
   path: '/api/movie/search',
    config: {
       cors: {
           origin: ['*'],
           additionalHeaders: ['cache-control', 'x-requested-width']
    handler: async function (request, reply) {
       var param = request.query;
       const search_text = param.search_text;
         const responsedata = await Movies.MovieRepo.getMovieSearch(search_text);
         if (responsedata.error) {
             return responsedata.errMessage;
         server.log(["error", "home"], err);
         return err;
server.route({
 method: 'POST',
  path: '/api/movie/insert',
  config: {
     payload: {
       multipart: true,
     cors: {
         origin: ['*'],
         additionalHeaders: ['cache-control', 'x-requested-width']
  handler: async function (request, reply) {
       release_year
     } = request.payload;
       const responsedata = await Movies.MovieRepo.postMovie(title, genre, director, release year);
        if (responsedata.error) {
           return responsedata.errMessage;
```

สร้างหน้า env.js และ dbconfig.js

```
JS env.js > ...
1  var env = process.env.NODE_ENV || 'development';
2  //var env = process.env.NODE_ENV || 'production';
3  module.exports = env;
4
```

```
JS dbconfig.js > ...
      var dbconfig = {
          development: {
             //connectionLimit : 10,
             host : 'localhost',
             port
                     : '3306',
             user : 'root',
             password : '',
             database : 'moviedb'
         production: {
             //connectionLimit : 10,
11
             host : 'localhost',
12
13
             port
                     : '3306',
             user : 'root',
14
             password : '',
15
             database : 'moviedb'
17
          };
      module.exports = dbconfig;
20
```

สร้างโฟลเดอร์ respository และสร้างไฟล์ movie.js

```
    API
    node_modules
    respository
    JS movie.js
```

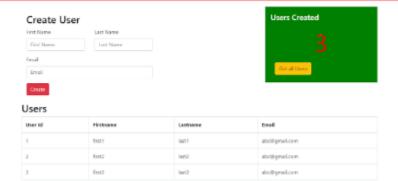
โค้ดหน้า movie.js

```
tory > Js movie, is > ...
var mysql = _require('mysql');
const env = require('../env., is');
const config = require('../dbconfig., is')[env];
async function getMovieList() {
        var Query;
var pool = mysql.createPool(config);
             //Ouery = `SELECT * FROM movies WHERE warehouse_status = 1 ORDER BY CONVERT( warehouse_name USING tis620 ) ASC `; | Query = `SELECT * FROM movies`;
            pool.query(Query, function (error, results, fields) {
   if (error) throw error;
              if (error) throw error;
if (results.length > 0) {
  pool.end();
  return resolve(results);
) else {
  pool.end();
  return resolve({
    statusCode: 404,
    returnCode: 11,
    message: 'No movie found',
  });
}
```

```
async function getMovieSearch(search_text) {
         var Query;
         var pool = mysql.createPool(config);
         return new Promise((resolve, reject) => {
             Query = `SELECT * FROM movies WHERE title LIKE '%${search_text}%'`;
              pool.query(Query, function (error, results, fields) {
                 if (error) throw error;
                 if (results.length > 0) {
                     pool.end();
                     return resolve({
                        statusCode: 200,
                         returnCode: 1,
                         data: results,
                 } else {
95
                     pool.end();
                     return resolve({
                        statusCode: 404,
                         returnCode: 11,
                         message: 'No movie found',
     async function postMovie(p_title,p_genre,p_director,p_release_year) {
         var Query;
         var pool = mysql.createPool(config);
         return new Promise((resolve, reject) => {
             var post = {
                title: p_title,
                 genre: p_genre,
                 director: p_director,
                 release_year: p_release_year
             console.log('post is: ', post);
             Query = 'INSERT INTO movies SET ?';
             pool.query(Query, post, function (error, results, fields) {
```

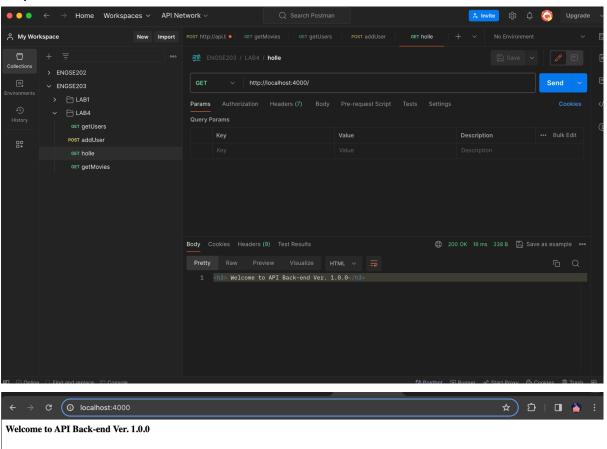
ผลรัน

React With NodeJS

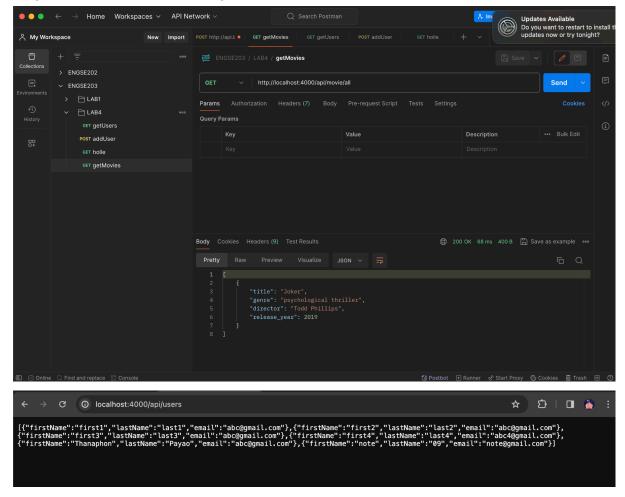


Postman

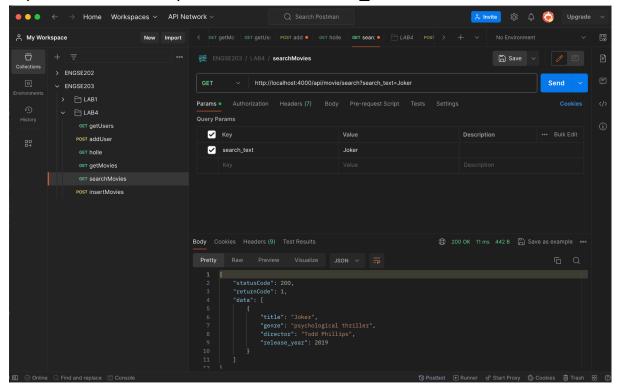
http://localhost:4000/



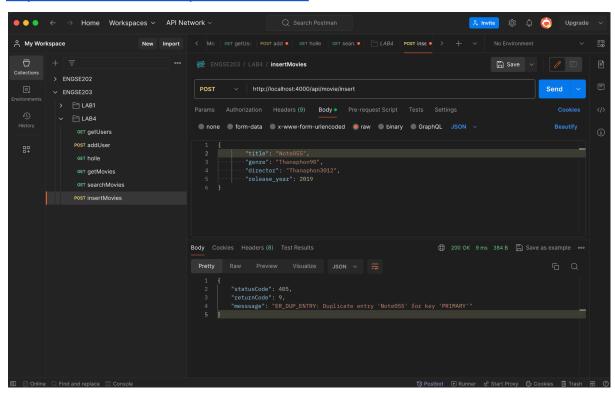
http://localhost:4000/api/movie/all



http://localhost:4000/api/movie/search?search_text=Joker



http://localhost:4000/api/movie/insert



```
post is: {
  title: 'Note055',
  genre: 'Thanaphon90',
  director: 'Thanaphon3012',
  release_year: 2019
}
results: OkPacket {
  fieldCount: 0,
   affectedRows: 1,
   insertId: 0,
   serverStatus: 2,
   warningCount: 0,
  message: '',
  protocol41: true,
  changedRows: 0
}
```

กรณี insert ข้อมูลซ้ำ

```
post is: {
   title: 'Note055',
   genre: 'Thanaphon90',
   director: 'Thanaphon3012',
   release_year: 2019
}
error_code_msg: ER_DUP_ENTRY:Duplicate entry 'Note055' for key 'PRIMARY'
```