LAB4

```
EXPLORER
                     package.json X Js dbconfig.js
                                                       Js movie.js
                                                                      Js index.js

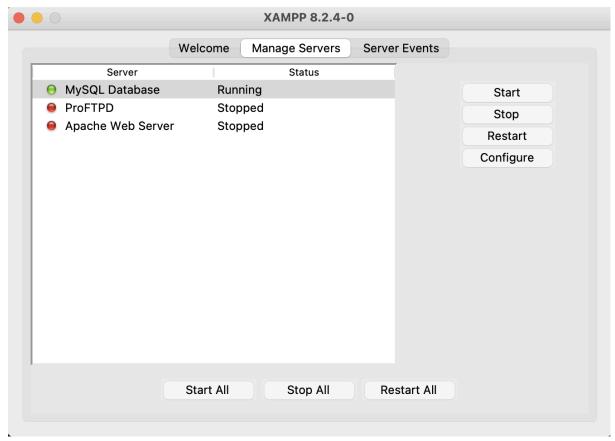
   package.json > { } scripts > 
   dev

/ API
> node_modules
                              "name": "react-nodejs-example",

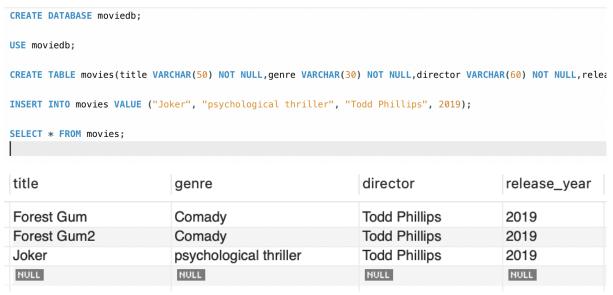
✓ respository

                              "version": "1.0.0",
   Js movie.js
                              "description": "example project react with nodejs",
  Js dbconfig.js
                              "main": "server.js",
                              Debug
  Js env.js
                              "scripts": {
  f gulpfile.js
                               "start": "node server.bundle.js",
  Js index.js
                               "build": "webpack",
  package-lock.json
                               "dev": "nodemon ./index.js localhost 4000"
                        9
  package.json
 us server.js > ...
          const express = require('express');
    1
          const path = require('path');
    2
          const app = express(),
    3
                   bodyParser = require("body-parser");
                   port = 4000;
       เปลี่ยน Port ของ backend เป็น 4000 หน้า package.json, server.js
```

ทดสอบ



เปิด MYSQL ใน XAMPP



สร้าง database , เพิ่มตาราและเพิ่มข้อมูลลงในตาราง

สร้าง index.js มาใน backend และใส่โค้ด

```
」s index.js > [∅] init
      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");
 11
 12
      const api_port = 4000;
 13
      const web_port = 4001;
      //---- hapi -----
      console.log('Running Environment: ' + env);
      const init = async () => {
 23
        const server = hapi.Server({
          port: api_port,
          host: '0.0.0.0',
         routes: {
          cors: true
        });
        await server.register(require('@hapi/inert'));
 34
        server.route({
          method: "GET",
          path: "/",
          handler: () => {
          return '<h3> Welcome to API Back-end Ver. 1.0.0</h3>';
          }
        });
```

```
//API: http://localhost:3001/api/movie/all
44
         server.route({
           method: 'GET',
           path: '/api/movie/all',
           config: {
               cors: {
                   origin: ['*'],
                   additionalHeaders: ['cache-control', 'x-requested-width']
           handler: async function (request, reply) {
                   const responsedata = await Movies.MovieRepo.getMovieList();
                   if (responsedata.error) {
                       return responsedata.errMessage;
                     return responsedata;
               } catch (err) {
                   server.log(["error", "home"], err);
                   return err;
         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 title = param.title;
```

```
const responsedata = await Movies.MovieRepo.getMovieSearch(search_text);
         if (responsedata.error) {
             return responsedata.errMessage;
             return responsedata;
     } catch (err) {
         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) {
      title,
       genre,
      release_year
     } = request.payload;
       const responsedata = await Movies.MovieRepo.postMovie(title, genre, director, release_year);
       if (responsedata.error) {
          return responsedata.errMessage;
          return responsedata;
```

```
} catch (err) {
137
                 server.log(["error", "home"], err);
138
139
                 return err;
140
141
142
143
      });
144
145
146
147
       await server.start();
148
        console.log('API Server running on %s', server.info.uri);
149
150
151
      };
152
153
154
      process.on('unhandledRejection', (err) => {
155
156
        console.log(err);
157
158
        process.exit(1);
159
      });
      init();
162
```

สร้าง env.js เพื่อเก็บ config ว่าทำงานอยู่ในสภาพแวดล้อมใด

```
process.env.NODE_ENV || 'development';

//var env = process.env.NODE_ENV || 'production';

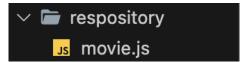
module.exports = env;

4
```

สร้าง dbconfig.js

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

สร้างโฟลเดอร์ respository และสร้างไฟล์ movie.js



```
respository > Js movie.js > ...

1   var mysql = require('mysql');
2   const env = require('../env.js');
3   const config = require('../dbconfig.js')[env];
```

```
respository > Js movie.js > ...
       async function getMovieList() {
           var Query:
           var pool = mysql.createPool(config);
           return new Promise((resolve, reject) => {
              //Query = `SELECT * FROM movies WHERE warehouse_status = 1 ORDER BY CO
                Query = `SELECT * FROM movies`;
                pool.query(Query, function (error, results, fields) {
                   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,
```

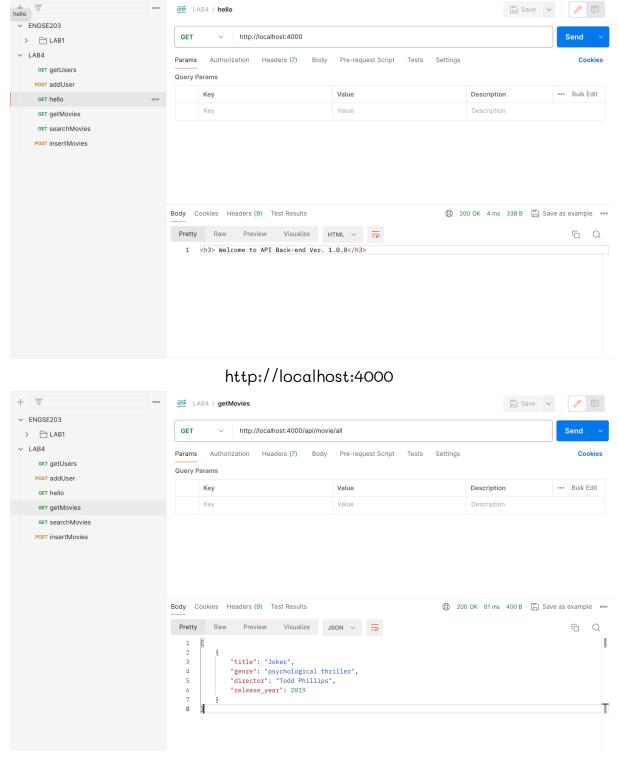
```
respository > Js movie.js > ...
                           statusCode: 200,
                           returnCode: 1,
                           data: results,
                       });
                   } else {
                       pool.end();
                       return resolve({
                           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) => {
               //Query = `SELECT * FROM movies WHERE title LIKE '%${search_text}%'`;
               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) {
               //pool.query(Query, function (error, results, fields) {
```

```
//if (error) throw error;
136
              if (error) {
                  console.log('error_code_msg: ',error.code+':'+error.sqlMessage);
                  pool.end();
                  return resolve({
                      statusCode: 405,
                      returnCode: 9,
                      messsage: error.code+':'+error.sqlMessage,
                  });
              } else {
                  console.log('results: ',results);
                  if (results.affectedRows > 0) {
                      pool.end();
                      return resolve({
                          statusCode: 200,
                           returnCode: 1,
                          messsage: 'Movie list was inserted',
                      });
```

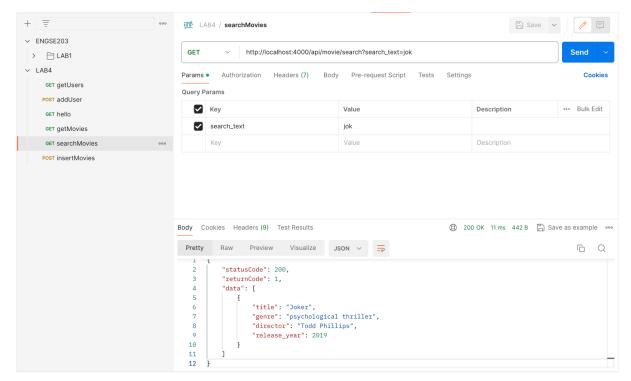
แก้โค้ดตามนี้

```
158
               }):
159
160
161
162
           });
163
164
165
166
167
       module.exports.MovieRepo = {
           getMovieList: getMovieList,
168
           getMovieSearch: getMovieSearch,
169
           postMovie: postMovie,
170
171
172
       };
173
```

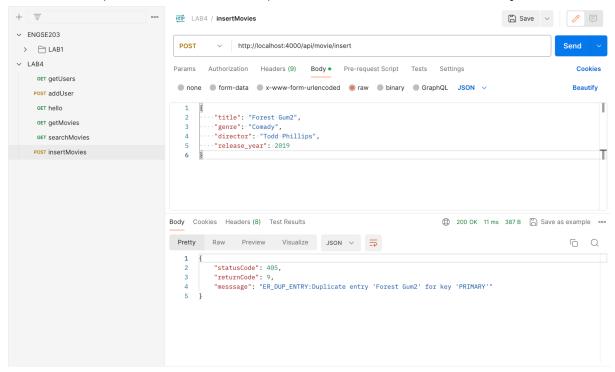
ทดสอบการทำงานใน Postman



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



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



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