

ENGSE203-LAB4

Create folder ENGSE203 and lab4

```
admin@where ~ % cd desktop
admin@where desktop % mkdir ENGSE203
admin@where desktop % cd ENGSE203
admin@where ENGSE203 % mkdir lab4
admin@where ENGSE203 % cd lab4
admin@where lab4 % cd ..
admin@where ENGSE203 % sudo chown -R $USER:$USER ENGSE203
Password:
chown: ENGSE203: No such file or directory
admin@where ENGSE203 % sudo chown -R $USER:$USER .npm
chown: .npm: No such file or directory
admin@where ENGSE203 % cd lab4
```

Create react

```
admin@where lab4 % sudo npm install -g create-react-app
( ) .. idealTree:tmp: sill placeDep node_modules/create-react-a
admin@where lab4 % npx create-react-app myreact

Creating a new React app in /Users/admin/Desktop/ENGSE203/lab4/myreact.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

added 1486 packages in 24s

250 packages are looking for funding
  run `npm fund` for details

Initialized a git repository.

Installing template dependencies using npm...

added 69 packages, and changed 1 package in 5s

254 packages are looking for funding
  run `npm fund` for details
Removing template package using npm...

removed 1 package, and audited 1555 packages in 1s

254 packages are looking for funding
  run `npm fund` for details

8 vulnerabilities (2 moderate, 6 high)

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.

Created git commit.

Success! Created myreact at /Users/admin/Desktop/ENGSE203/lab4/myreact
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

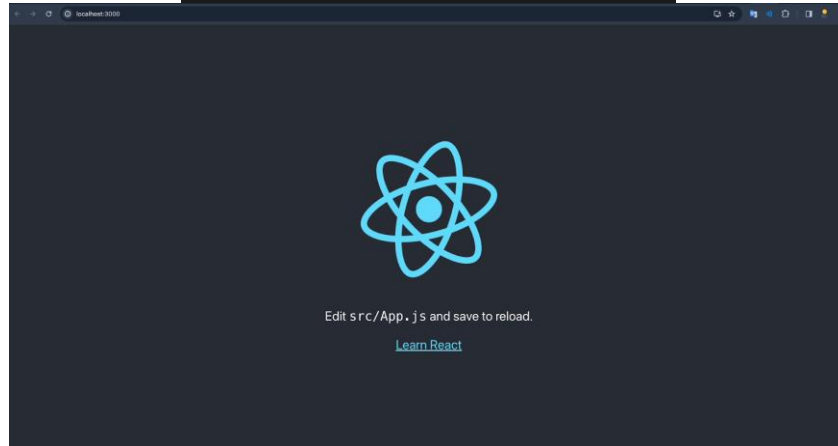
  cd myreact
  npm start

Happy hacking!
```

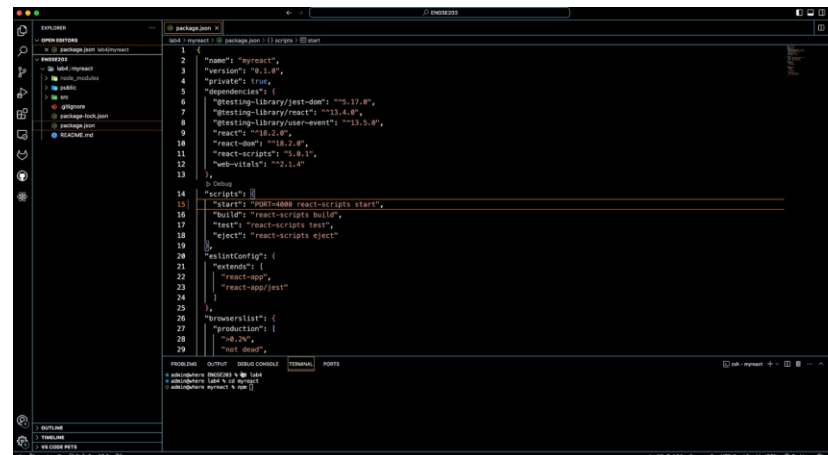
Start react

```
admin@where lab4 % cd myreact
admin@where myreact % npm start

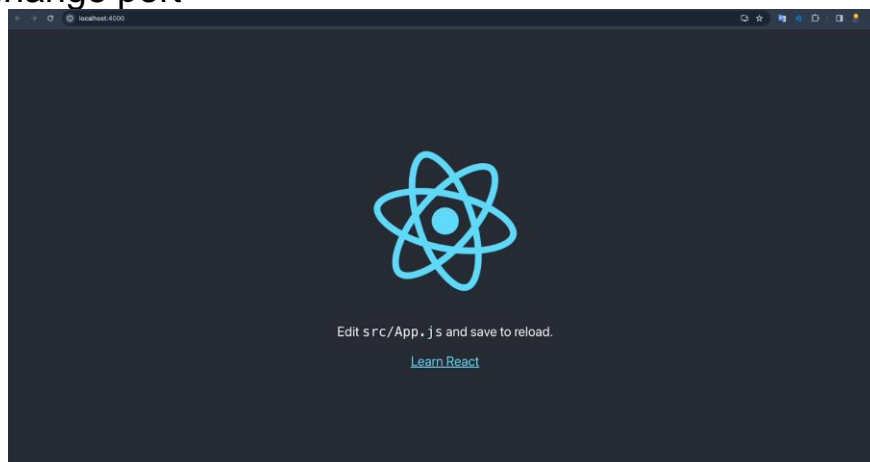
> myreact@0.1.0 start
> react-scripts start
```



Change port react



Run after change port



Clone folder from github

```
admin@where lab4 % git clone https://github.com/tkeatkaew/react-nodejs-example.git
Cloning into 'react-nodejs-example'...
remote: Enumerating objects: 5861, done.
remote: Counting objects: 100% (595/595), done.
remote: Compressing objects: 100% (504/504), done.
remote: Total 5861 (delta 112), reused 91 (delta 91), pack-reused 5266
Receiving objects: 100% (5861/5861), 6.13 MiB | 6.27 MiB/s, done.
Resolving deltas: 100% (1184/1184), done.
```

Change port in react-nodejs-example



Install node

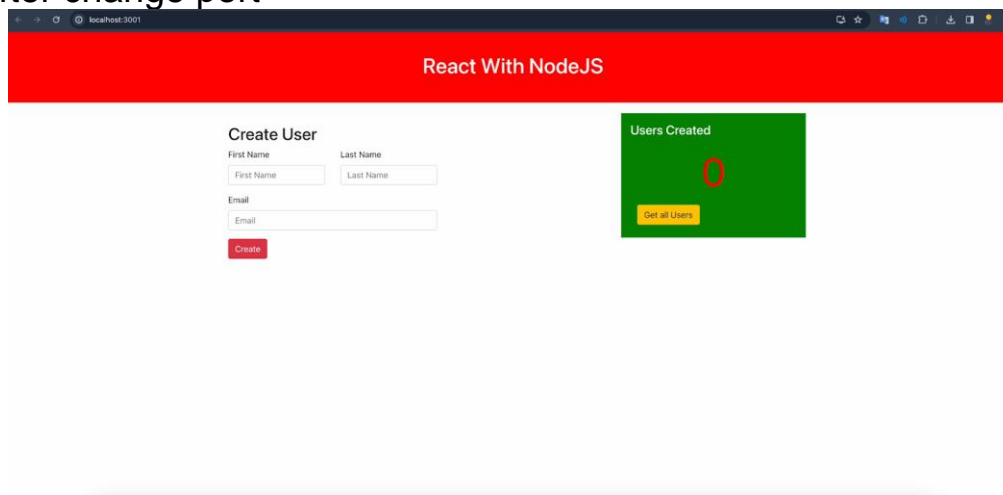
```
admin@where react-nodejs-example % npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (react-nodejs-example) 
```

Start after change port

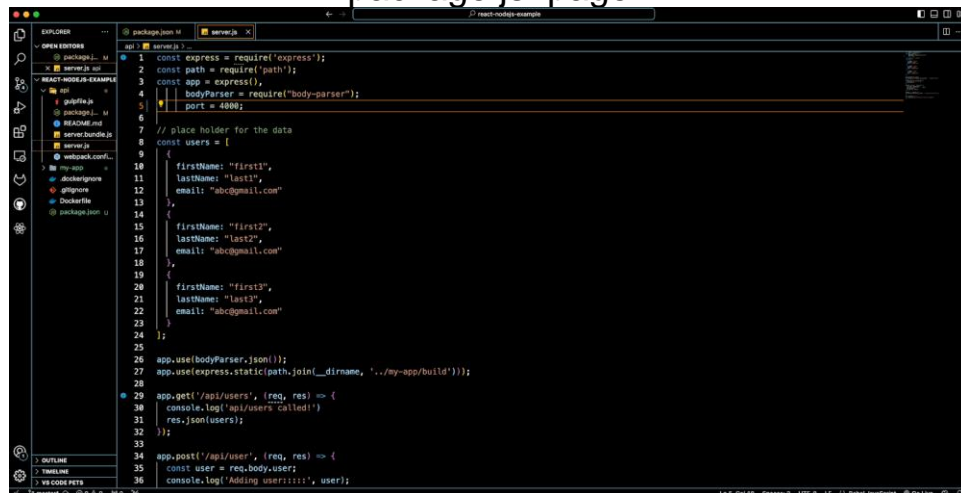


Change port /api -> package.json && server.js



```
1 {
2   "name": "react-nodejs-example",
3   "version": "1.0.0",
4   "description": "example project react with nodejs",
5   "main": "server.js",
6   "scripts": {
7     "start": "node server.bundle.js",
8     "build": "webpack",
9     "dev": "nodemon ./server.js localhost:4000"
10  },
11  "repository": {
12    "type": "git",
13    "url": "git+https://github.com/bbachi/react-nodejs-example.git"
14  },
15  "author": "Bhargav Bachina",
16  "license": "ISC",
17  "bugs": {
18    "url": "https://github.com/bbachi/react-nodejs-example/issues"
19  },
20  "homepage": "https://github.com/bbachi/react-nodejs-example#readme",
21  "dependencies": {
22    "express": "^4.17.1",
23    "http-proxy-middleware": "^1.0.4"
24  },
25  "devDependencies": {
26    "del": "^5.1.0",
27    "fancy-log": "^1.3.3",
28    "gulp": "^4.0.2",
29    "gulp-livereload": "^6.0.0",
30    "nodemon": "^2.0.4",
31    "webpack": "^4.43.0",
32    "webpack-cli": "^3.3.11",
33    "webpack-stream": "^5.2.1"
34  }
35 }
```

package.js page



```
1 const express = require('express');
2 const path = require('path');
3 const app = express();
4 const bodyParser = require('body-parser');
5 port = 4000;
6
7 // place holder for the data
8 const users = [
9   {
10     firstName: "first1",
11     lastName: "last1",
12     email: "abc@gmail.com"
13   },
14   {
15     firstName: "first2",
16     lastName: "last2",
17     email: "abc@gmail.com"
18   },
19   {
20     firstName: "first3",
21     lastName: "last3",
22     email: "abc@gmail.com"
23   }
24 ];
25
26 app.use(bodyParser.json());
27 app.use(express.static(path.join(__dirname, '../my-app/build')));
28
29 app.get('/api/users', (req, res) => {
30   console.log('api/users called');
31   res.json(users);
32 });
33
34 app.post('/api/user', (req, res) => {
35   const user = req.body.user;
36   console.log('Adding user!!!!', user);
37 });
```

server.js page

Npm install in api

```
● admin@where react-nodejs-example % cd api
○ admin@where api % npm install
( [dependencies] ) :: idealTree:api: sill idealTree buildDeps
```

Start url:port/api/users

```
localhost:4000/api/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"}]
```

Add data

localhost:3001

React With NodeJS

Create User

First Name Last Name

First Name Last Name

Email

Email

Create

Users Created

3

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

Before add

localhost:3001

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	pp	pp	fjkggg@gmail.com

After add

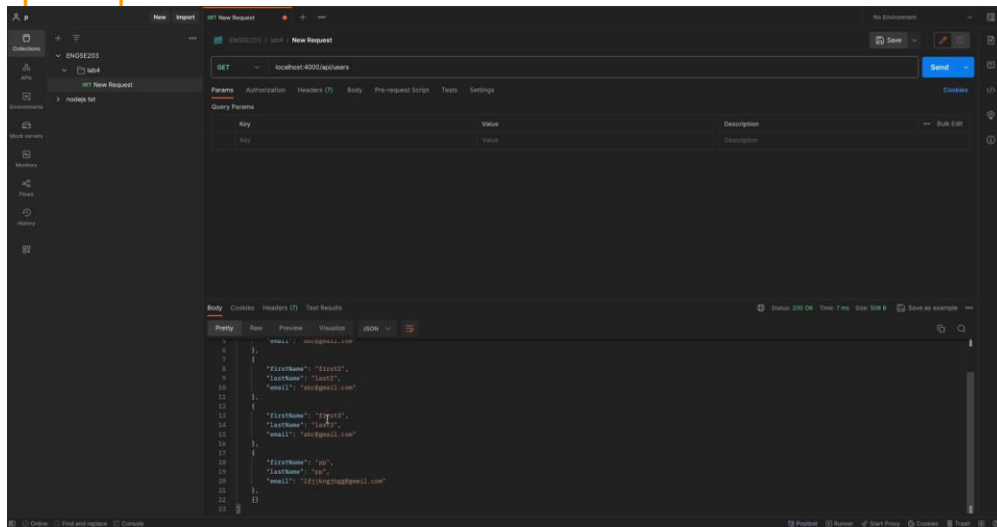
Start url:port/api/users

localhost:4000/api/users

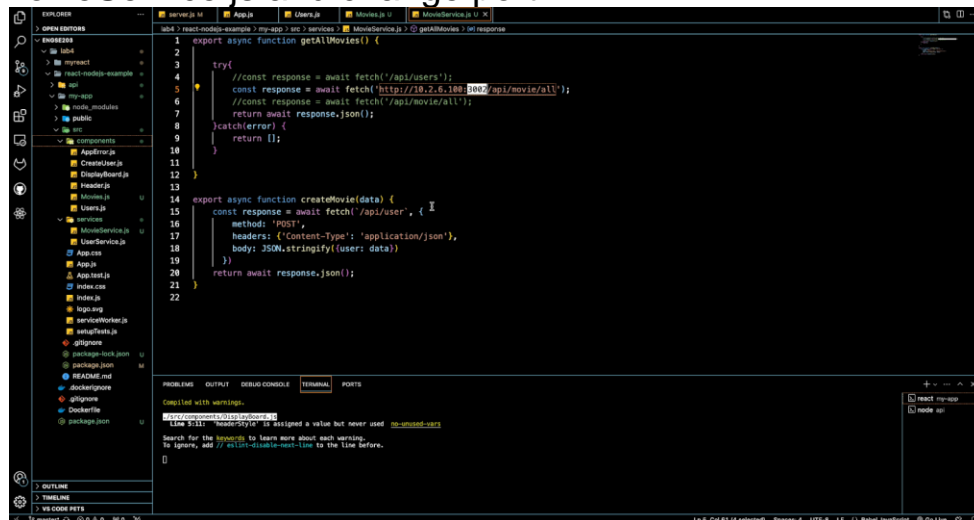
```
[{"firstName": "first1", "lastName": "last1", "email": "abc@gmail.com"}, {"firstName": "first2", "lastName": "last2", "email": "abc@gmail.com"}, {"firstName": "first3", "lastName": "last3", "email": "abc@gmail.com"}, {"firstName": "pp", "lastName": "pp", "email": "fjkggg@gmail.com"}]
```

Postman

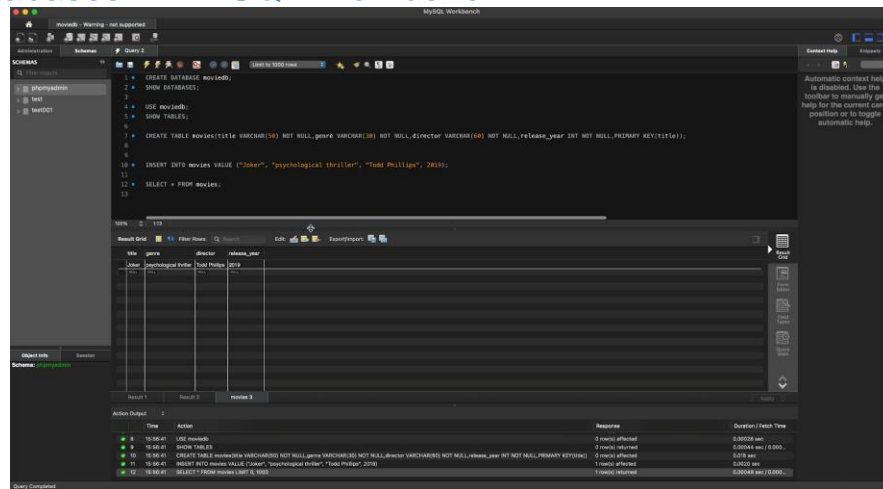
GET url:port/api/users



Create MovieService.js and change port



Create databases in MYSQL Workbench

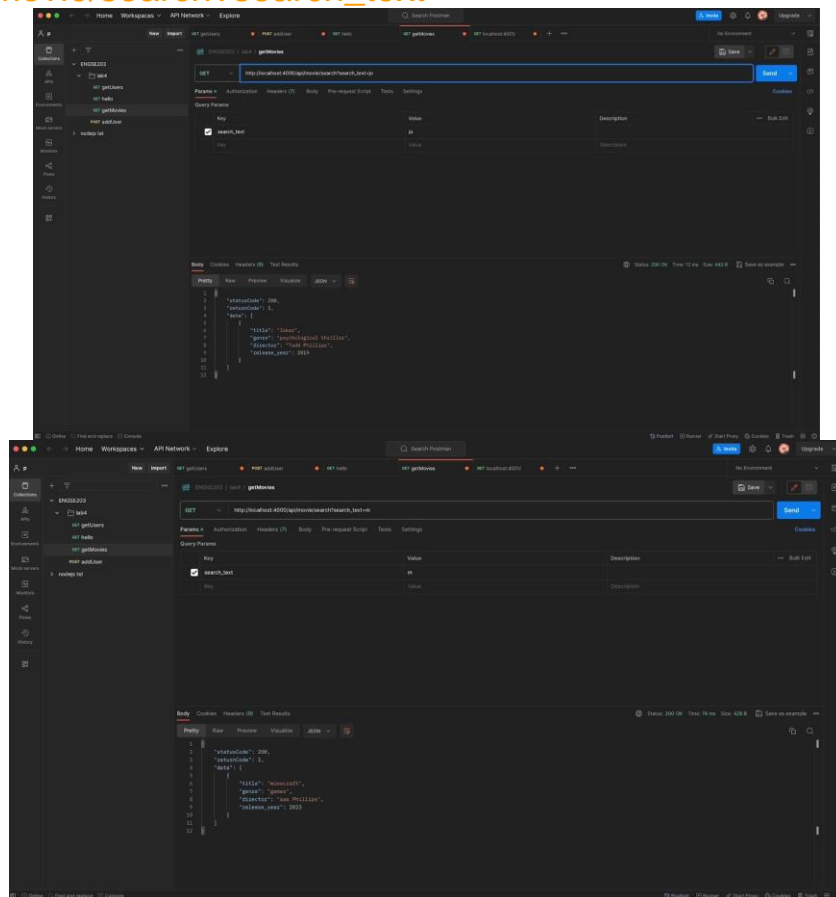


Create node_modules -> env.js



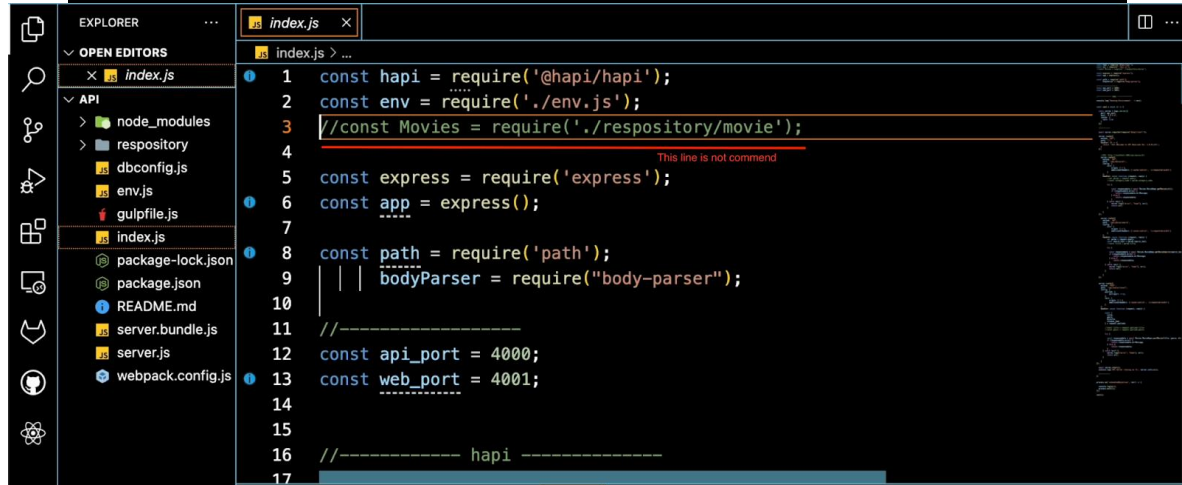
-> Create index.js and change port

GET url:port/api/movie/all



!!! all my error !!!

```
Node.js v21.2.0
admin@where api % npm install @hapi/hapi
```



The screenshot shows the VS Code editor interface. The Explorer sidebar on the left displays the project structure, including files like package-lock.json, package.json, README.md, server.bundle.js, server.js, and webpack.config.js. The main editor area shows the content of index.js. The code includes imports for hapi, env, Movies, express, path, and body-parser. There are two error markers: a blue circle on line 3 and a red squiggly line on line 4. A tooltip for the red squiggly line states "This line is not comment".

```
1 const hapi = require('@hapi/hapi');
2 const env = require('./env.js');
3 //const Movies = require('./respository/movie');
4
5 const express = require('express');
6 const app = express();
7
8 const path = require('path');
9 | | bodyParser = require("body-parser");
10
11 //-----
12 const api_port = 4000;
13 const web_port = 4001;
14
15
16 //----- hapi -----
17
```