

Final SDD_LAB - งานเดี่ยว

STEP1

ให้ Make a copy เอกสาร google doc นี้ เป็นของตัวเอง

STEP2

ให้ทำการ download ไฟล์ final-lab-2-2566-engce112.zip จากที่นี่

<https://drive.google.com/file/d/1C3pWCGooDBRikpwLDHoRM4Ej2Q6caDRt/view?usp=sharing>

ให้ทำการแตก zip จะได้ 2 directory ดังนี้

```
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> dir

Directory: F:\RMUTL3\Software\engce301-final-lab-65543206026-8

Mode                LastWriteTime         Length Name
----                -
d-----          24-Oct-24         20:24      api
d-----          24-Oct-24         20:24    my-app
-a-----          24-Oct-24         20:24       6148 .DS_Store
-a-----          24-Oct-24         20:24        683 .gitignore

PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> |
```

ติดตั้ง node modules ทั้ง 2 directory ด้วยคำสั่ง

```
npm install --force
```

บันทึกผลหน้าจของ STEP2

```
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8\api> npm i --force
npm warn using --force Recommended protections disabled.

up to date, audited 710 packages in 5s

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

26 vulnerabilities (5 low, 10 moderate, 11 high)

To address issues that do not require attention, run:
  npm audit fix

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

Run `npm audit` for details.
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8\api> |
```

```
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8\my-app> npm i --force
npm warn using --force Recommended protections disabled.

up to date, audited 1907 packages in 9s

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

166 vulnerabilities (6 low, 125 moderate, 32 high, 3 critical)

To address issues that do not require attention, run:
  npm audit fix

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

Run `npm audit` for details.
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8\my-app> |
```

STEP3

ให้ทำการ run application ใน directory ชื่อ api

ใช้คำสั่ง npm run dev เพื่อใช้งาน nodemon จะมีการ reload ตัวเองทุกครั้งที่ไฟล์ในโฟลเดอร์ api มีการเปลี่ยนแปลง

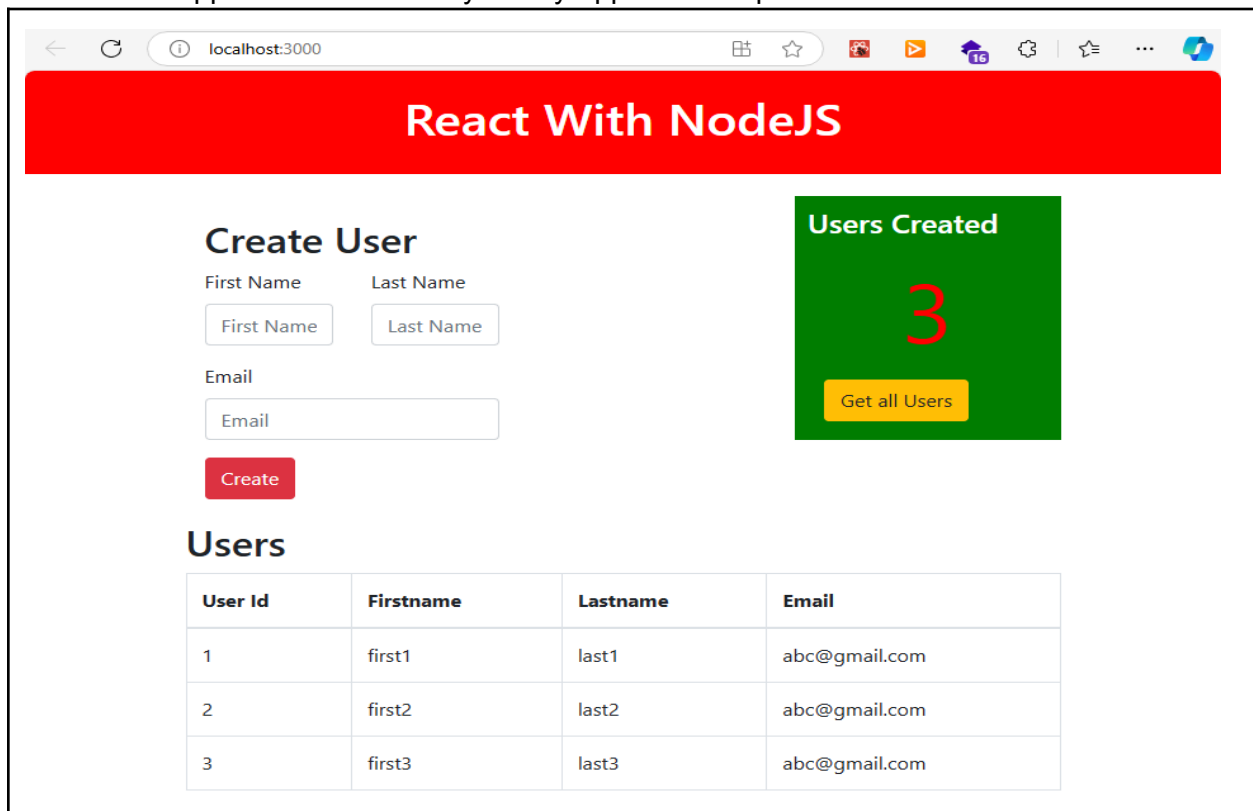
```
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8\api> npm run dev

> react-nodejs-example@1.0.0 dev
> nodemon ./server.js localhost 3080

[nodemon] 2.0.22
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node ./server.js localhost 3080`
Server listening on the port::3080
|
```

STEP4

ให้ทำการ run application ใน directory ชื่อ my-app ใช้คำสั่ง npm start



STEP5

ปรับโปรแกรมให้แสดงผล เป็นสมาชิกของทีม ชื่อ (Name) , นามสกุล (Lastname) และ Email ของตัวเอง (Email ของมหาวิทยาลัย) **และให้เพิ่มคอลัมน์ ตำแหน่ง (Position) โดยแสดงผลต่อจาก Email

Users

User Id	Firstname	Lastname	Email	
1	first1	last1	abc@gmail.com	
2	first2	last2	abc@gmail.com	
3	first3	last3	abc@gmail.com	

บันทึกผล code ที่ปรับไป และหน้าจอแสดงผลบน web browser ของ STEP5

```
JS Users.js x
my-app > src > components > JS Users.js > [0] Users > [0] UserRow
Codeium: Refactor | Explain | Generate JSDoc | X
3 export const Users = ({users}) => {
4
5   console.log('users length:::', users.length)
6   if (users.length === 0) return null
7
8   Codeium: Refactor | Explain | Generate JSDoc | X
9   const UserRow = (user,index) => {
10
11     return(
12       <tr key = {index} className={index%2 === 0?'odd':'even'}>
13         <td>{index + 1}</td>
14         <td>{user.firstName}</td>
15         <td>{user.lastName}</td>
16         <td>{user.email}</td>
17         <td>{user.Position}</td>
18       </tr>
19     )
20   }
21
22   const userTable = users.map((user,index) => UserRow(user,index))
23
24   return(
25     <div className="container">
26       <h2>Users</h2>
27       <table className="table table-bordered">
28         <thead>
29           <tr>
30             <th>User Id</th>
31             <th>Firstname</th>
32             <th>Lastname</th>
33             <th>Email</th>
34             <th>Position</th>
35           </tr>
36         </thead>
37         <tbody>
38           {userTable}
39         </tbody>
40       </table>
41     </div>
42   )
43 }
```

ปรับปรุงไฟล์ Users.js เพิ่ม <td>{user.Position}</td> ใน UserRow และเพิ่ม <th>Position</th> เพื่อให้แสดงที่หัวตาราง

```
JS Users.js JS CreateUser.js JS App.js JS server.js X
api > JS server.js > [?] users
1  const express = require('express');
2  const path = require('path');
3  const app = express();
4  const bodyParser = require("body-parser");
5  const port = 3080;
6
7  // place holder for the data
8  const users = [
9      {
10         firstName: "นางสาวณัฏฐกรณ์",
11         lastName: "ใจمند",
12         email: "natthaporn_ja65@live.rmutl.ac.th",
13         position: "System Analyst (SA)"
14     },
15     {
16         firstName: "นายพัทธนันท์",
17         lastName: "ใจช่วย",
18         email: "patthanant_ja65@live.rmutl.ac.th",
19         position: "Developer"
20     },
21     {
22         firstName: "นางสาวอริยา",
23         lastName: "วันยะ",
24         email: "ariya_ra65@live.rmutl.ac.th",
25         position: "Tester"
26     }
27 ];
```

ปรับปรุง const users ในไฟล์ server.js เพิ่ม position และ เปลี่ยน ชื่อ นามสกุล อีเมล หน้าที่ ให้เป็นของ
คนในกลุ่ม SDD1-67-04

```
JS Users.js JS CreateUser.js M JS App.js X JS server.js
my-app > src > JS App.js > App
10 function App() {
30   useEffect(() => {
31     getAllUsers().then((users) => {
33       setUsers(users);
34       setNumberOfUsers(users.length);
35     });
36   }, []);
37
Codeium: Refactor | Explain | Generate JSDoc | X
38   const onChangeForm = (e) => {
39     if (e.target.name === "firstname") {
40       user.firstName = e.target.value;
41     } else if (e.target.name === "lastname") {
42       user.lastName = e.target.value;
43     } else if (e.target.name === "email") {
44       user.email = e.target.value;
45     } else if (e.target.name === "position") {
46       user.position = e.target.value;
47     }
48     setUser(user);
49   };
50
51   return (
52     <div className="App">
53       <Header></Header>
54       <div className="container mrgnhtn">
```

ปรับปรุงไฟล์ App.js เพิ่ม

```
else if (e.target.name === "position") {
  user.position = e.target.value;
}
```

ลงใน const onChangeForm

```
JS Users.js JS CreateUser.js M X JS App.js JS server.js
my-app > src > components > JS CreateUser.js > [e] CreateUser
3  const CreateUser = ({ onChangeForm, createUser }) => {
42      name="email"
43      id="email"
44      aria-describedby="emailHelp"
45      placeholder="Email"
46      />
47  </div>
48  </div>
49  <div className="row">
50      <div className="form-group col-md-12">
51          <label htmlFor="exampleInputPosition">Position</label>
52          <input
53              type="text"
54              onChange={(e) => onChangeForm(e)}
55              className="form-control"
56              name="Position"
57              id="Position"
58              aria-describedby="Position"
59              placeholder="Position"
60          />
61      </div>
62  </div>
63  <button
64      type="button"
65      onClick={(e) => createUser()}
66      className="btn btn-danger"
```

ปรับปรุงไฟล์ CreateUser.js เพิ่ม

```
<div className="row">
  <div className="form-group col-md-12">
    <label htmlFor="exampleInputPosition">Position</label>
    <input
      type="text"
      onChange={(e) => onChangeForm(e)}
      className="form-control"
      name="Position"
      id="Position"
      aria-describedby="Position"
      placeholder="Position"
    />
  </div>
</div>
```

เป็นช่องสำหรับใส่หน้าที่ของ user

localhost:3000

React With NodeJS

Create User

First Name

Last Name

First Name

Last Name

Email

Email

Position

Position

Create

Users Created

3

Get all Users

Users

User Id	Firstname	Lastname	Email	Position
1	นางสาวณัฐภรณ์	ใจمند	natthaporn_ja65@live.rmutl.ac.th	System Analyst (SA)
2	นายพัทธนันท์	ใจช่วย	patthanan_ja65@live.rmutl.ac.th	Developer
3	นางสาวอริยา	รันยะ	ariya_ra65@live.rmutl.ac.th	Tester

STEP6

บันทึกผลการทำงานของ STEP6

The screenshot shows a GitHub repository page for the repository named 'engce301-final-lab-65543206026-8' by user 'ItsPatthanan'. The page includes a navigation bar with links to Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the navigation bar, there are buttons for Pin, Unwatch (1), Fork (0), and Star (0). The main content area features two cards: 'Set up GitHub Copilot' and 'Add collaborators to this repository'. Below these cards is a 'Quick setup' section with a 'Set up in Desktop' button, an 'or' separator, and 'HTTPS' and 'SSH' options. The 'SSH' option is selected, showing the repository URL 'git@github.com:ItsPatthanan/engce301-final-lab-65543206026-8.git'. Below the 'Quick setup' section, there are two sections for creating or pushing a repository from the command line. The first section, '...or create a new repository on the command line', shows a series of git commands: 'echo "# engce301-final-lab-65543206026-8" >> README.md', 'git init', 'git add README.md', 'git commit -m "first commit"', 'git branch -M main', 'git remote add origin git@github.com:ItsPatthanan/engce301-final-lab-65543206026-8.git', and 'git push -u origin main'. The second section, '...or push an existing repository from the command line', shows the commands: 'git remote add origin git@github.com:ItsPatthanan/engce301-final-lab-65543206026-8.git', 'git branch -M main', and 'git push -u origin main'.

https://github.com/ItsPatthanan/engce301-final-lab-65543206026-8

ItsPatthanan / engce301-final-lab-65543206026-8

Type to search

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

engce301-final-lab-65543206026-8 Public

Pin Unwatch 1 Fork 0 Star 0

Set up GitHub Copilot
Use GitHub's AI pair programmer to autocomplete suggestions as you code.
[Get started with GitHub Copilot](#)

Add collaborators to this repository
Search for people using their GitHub username or email address.
[Invite collaborators](#)

Quick setup — if you've done this kind of thing before

[Set up in Desktop](#) or [HTTPS](#) [SSH](#)

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# engce301-final-lab-65543206026-8" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:ItsPatthanan/engce301-final-lab-65543206026-8.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin git@github.com:ItsPatthanan/engce301-final-lab-65543206026-8.git
git branch -M main
git push -u origin main
```

STEP7

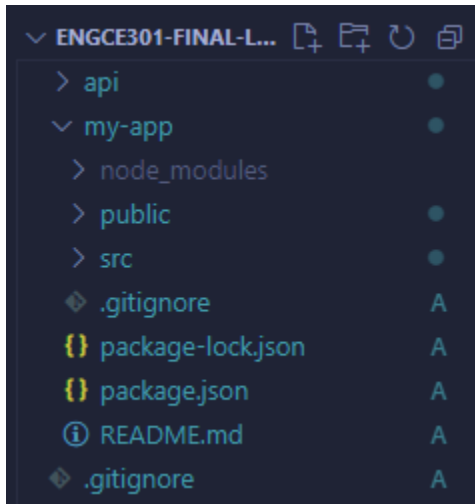
บันทึกผลการทำงานของ STEP7 ทั้ง command line และบนหน้าเว็บของ github

`git init`

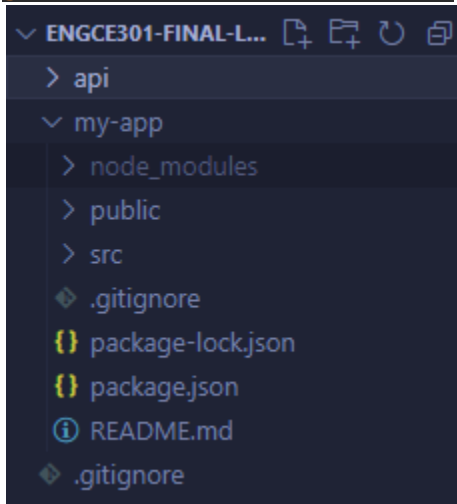
```
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> git init
Reinitialized existing Git repository in F:/RMUTL3/Software/engce301-final-lab-65543206026-8/.git/
```

`git add .` Explorer จะตัว A ขึ้นมาหลังไฟล์

```
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> git add .
```



`git commit -m "First commit"` และตัว A หลังไฟล์จะหายไป



```
● PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> git commit -m "first commit"
[master (root-commit) a6de211] first commit
32 files changed, 29622 insertions(+)
create mode 100644 .gitignore
create mode 100644 api/.gitignore
create mode 100644 api/README.md
create mode 100644 api/package-lock.json
create mode 100644 api/package.json
create mode 100644 api/server.bundle.js
create mode 100644 api/server.js
create mode 100644 api/webpack.config.js
create mode 100644 my-app/.gitignore
create mode 100644 my-app/README.md
create mode 100644 my-app/package-lock.json
create mode 100644 my-app/package.json
create mode 100644 my-app/public/favicon.ico
create mode 100644 my-app/public/index.html
create mode 100644 my-app/public/logo192.png
create mode 100644 my-app/public/logo512.png
create mode 100644 my-app/public/manifest.json
create mode 100644 my-app/public/robots.txt
create mode 100644 my-app/src/App.css
create mode 100644 my-app/src/App.js
create mode 100644 my-app/src/App.test.js
create mode 100644 my-app/src/components/AppError.js
create mode 100644 my-app/src/components/CreateUser.js
create mode 100644 my-app/src/components/DisplayBoard.js
create mode 100644 my-app/src/components/Header.js
create mode 100644 my-app/src/components/Users.js
create mode 100644 my-app/src/index.css
create mode 100644 my-app/src/index.js
create mode 100644 my-app/src/logo.svg
create mode 100644 my-app/src/serviceWorker.js
create mode 100644 my-app/src/services/UserService.js
create mode 100644 my-app/src/setupTests.js
○ PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8>
```

```

PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> git branch -M main
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> git remote add origin git@github.com:ItsPatthanan/engce301-final-lab-65543206026-8.git
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> git push -u origin main
The authenticity of host 'github.com (20.205.243.166)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wVV6TujJhbpZisF/zLDA0zPMSvHdKtr4UvC0qU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
no such identity: *C:\Users\KobimaChi\.ssh\id_ed25519*: No such file or directory
git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> git remote add origin https://github.com/ItsPatthanan/engce301-final-lab-65543206026-8.git
error: remote origin already exists.
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> git remote remove origin
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> git remote add origin https://github.com/ItsPatthanan/engce301-final-lab-65543206026-8.git
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> git push -u origin main
Enumerating objects: 39, done.
Counting objects: 100% (39/39), done.
Delta compression using up to 12 threads
Compressing objects: 100% (38/38), done.
Writing objects: 100% (39/39), 473.04 KiB | 9.85 MiB/s, done.
Total 39 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/ItsPatthanan/engce301-final-lab-65543206026-8.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS F:\RMUTL3\Software\engce301-final-lab-65543206026-8> 

```

git branch -M main

เปลี่ยนชื่อ branch ให้เป็น main และชี้ commit ไปยัง branch main

git remote add origin

เชื่อมต่อ Git repo บนเครื่องกับ remote repo origin บน GitHub

กรณีที่ remote ผิดไปใช้ ssh แทน https สามารถใช้คำสั่ง git remote remove origin

git push -u origin main

เป็นการอัปโหลดในเครื่องไปยัง repo origin main

https://github.com/ItsPatthanan/engce301-final-lab-65543206026-8

ItsPatthanan / engce301-final-lab-65543206026-8

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

engce301-final-lab-65543206026-8 Public Pin Unwatch 1 Fork 0 Star 0

main Go to file + <> Code About

ItsPatthanan first commit a6de211 · 5 minutes ago

api	first commit	5 minutes ago
my-app	first commit	5 minutes ago
.gitignore	first commit	5 minutes ago

README

Add a README

Help people interested in this repository understand your project by adding a README.

Add a README

About

No description, website, or topics provided.

Activity

0 stars

1 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Suggested workflows

Based on your tech stack

Deno [Configure](#)

Test your Deno project

Publish Node.js Package [Configure](#)

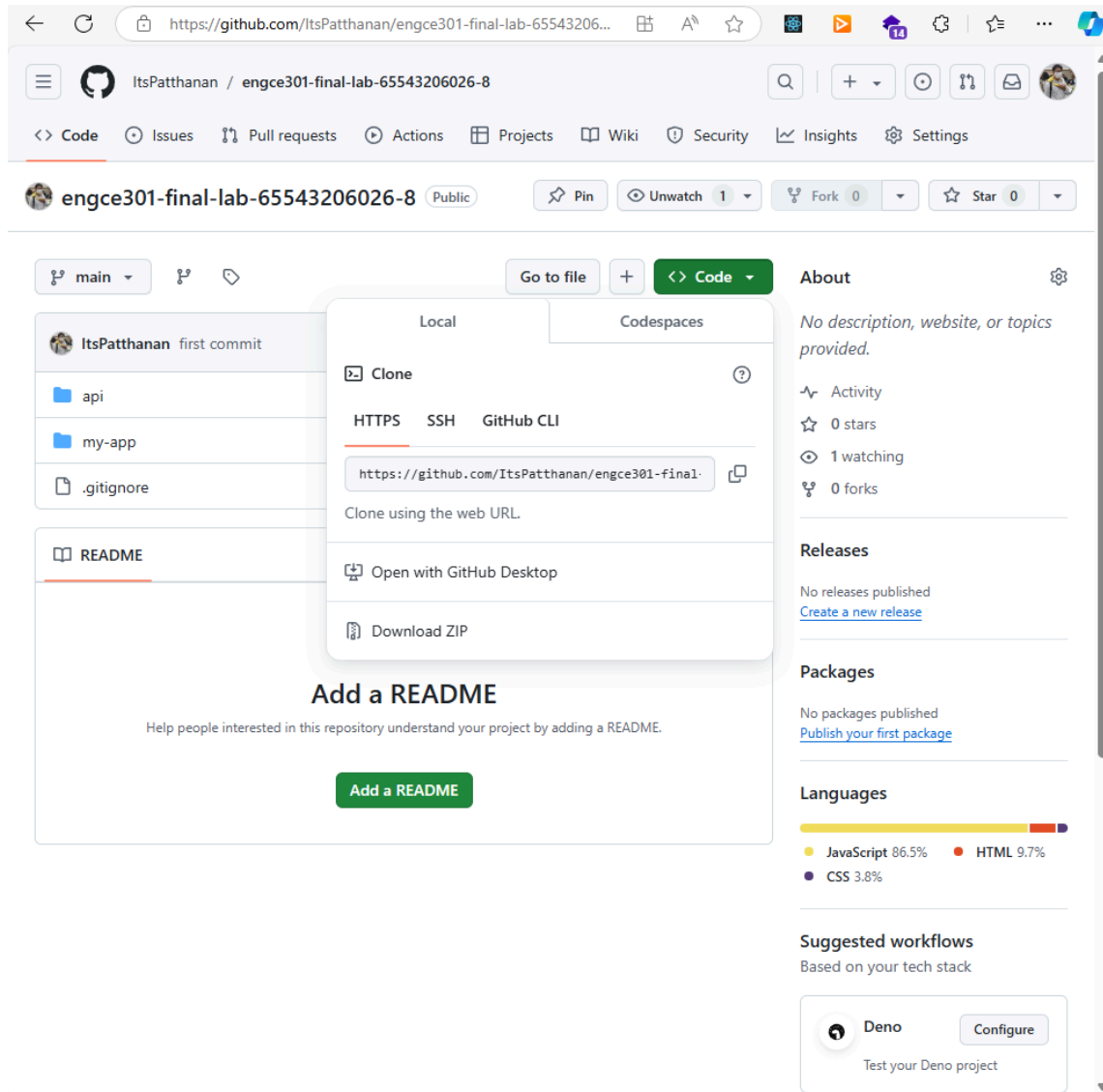
Publishes a Node.js package to npm.

หน้าหลังจากการใช้คำสั่ง `git push -u origin main`

STEP8

เมื่อทำเสร็จแล้วให้ป้อน git url ของงานที่นี้ **

<https://github.com/ItsPatthanan/engce301-final-lab-65543206026-8.git>



STEP9

ให้ download เอกสารนี้พร้อมเอกสารอธิบายและภาพระหว่างการทำงาน/ผลการทำงานเป็น pdf และส่งใน direct message ของ slack

FINISHED จบแล้ว