

Final SDD_LAB - งานเดี่ยว

Step1

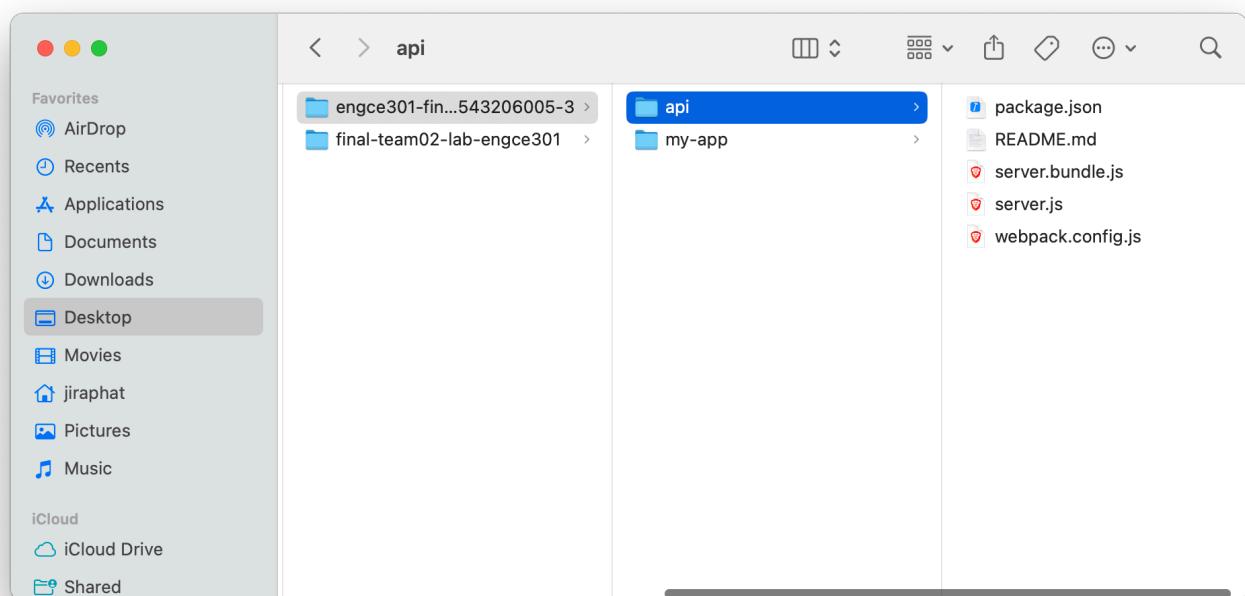
ทำเป็นไฟล์ MD แทน เพื่อนำไป push ขึ้น github

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



ให้เข้าไปติดตั้ง node modules ทั้ง 2 directory ด้วยคำสั่ง

api

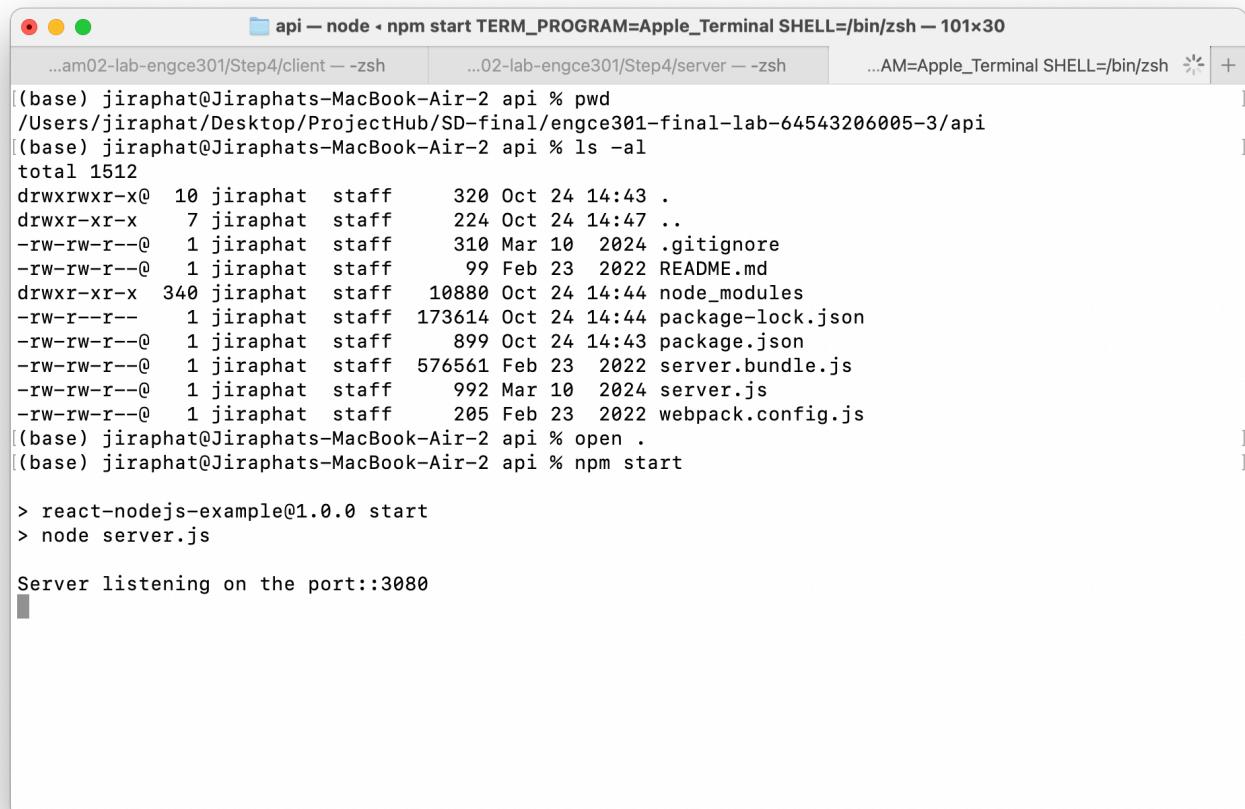
```
api — npm install TERM_PROGRAM=Apple_Terminal SHELL=/bin/zsh TERM=xterm-256color — 101x30
...am02-lab-engce301/Step4/client — zsh ...02-lab-engce301/Step4/server — zsh ...ELL=/bin/zsh TERM=xterm-256color ⌂ + [ ]
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % ls
api      my-app
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % cd api
(base) jiraphat@Jiraphats-MacBook-Air-2 api % npm install --force
npm warn using --force Recommended protections disabled.
: [ ]
```

my-app

```
my-app — npm install TERM_PROGRAM=Apple_Terminal SHELL=/bin/zsh TERM=xterm-256color — 101x30
...am02-lab-engce301/Step4/client — zsh ...02-lab-engce301/Step4/server — zsh ...ELL=/bin/zsh TERM=xterm-256color ⌂ + [ ]
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % cd my-app
(base) jiraphat@Jiraphats-MacBook-Air-2 my-app % npm install --force
npm warn using --force Recommended protections disabled.
: [ ]
```

Step3

ให้ทำการ run application ใน directory ชื่อ api `npm start`



```
api — node - npm start TERM_PROGRAM=Apple_Terminal SHELL=/bin/zsh — 101x30
...am02-lab-engce301/Step4/client — zsh ...02-lab-engce301/Step4/server — zsh ...AM=Apple_Terminal SHELL=/bin/zsh +[+]

(base) jiraphat@Jiraphats-MacBook-Air-2 api % pwd
/Users/jiraphat/Desktop/ProjectHub/SD-final/engce301-final-lab-64543206005-3/api
(base) jiraphat@Jiraphats-MacBook-Air-2 api % ls -al
total 1512
drwxrwxr-x@ 10 jiraphat staff 320 Oct 24 14:43 .
drwxr-xr-x 7 jiraphat staff 224 Oct 24 14:47 ..
-rw-rw-r--@ 1 jiraphat staff 310 Mar 10 2024 .gitignore
-rw-rw-r--@ 1 jiraphat staff 99 Feb 23 2022 README.md
drwxr-xr-x 340 jiraphat staff 10880 Oct 24 14:44 node_modules
-rw-r--r-- 1 jiraphat staff 173614 Oct 24 14:44 package-lock.json
-rw-rw-r--@ 1 jiraphat staff 899 Oct 24 14:43 package.json
-rw-rw-r--@ 1 jiraphat staff 576561 Feb 23 2022 server.bundle.js
-rw-rw-r--@ 1 jiraphat staff 992 Mar 10 2024 server.js
-rw-rw-r--@ 1 jiraphat staff 205 Feb 23 2022 webpack.config.js
(base) jiraphat@Jiraphats-MacBook-Air-2 api % open .
(base) jiraphat@Jiraphats-MacBook-Air-2 api % npm start

> react-nodejs-example@1.0.0 start
> node server.js

Server listening on the port::3080
```

Step4

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



```
my-app — node < npm start TERM_PROGRAM=Apple_Terminal SHELL=/bin/zsh — 101x30
...ce301/Step4/client — -zsh ...ce301/Step4/server — -zsh ...Terminal SHELL=/bin/zsh ...Terminal SHELL=/bin/zsh +
```

Compiled successfully!

You can now view my-app in the browser.

Local: http://localhost:3000
On Your Network: http://10.2.7.83:3000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

webpack compiled successfully

Step5

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

api/server.js

```
const express = require('express');
const path = require('path');
const app = express();
const bodyParser = require("body-parser");
const port = 3080;

// place holder for the data
const users = [
  {
    firstName: "Jiraphat",
    lastName: "Jamprasert",
    email: "jiraphat_ja64@live.rmutl.ac.th",
    position: "Student"
  },
  {
    firstName: "Teerapat",
    lastName: "Chomchoey",
    email: "teerapat_ch65@live.rmut.ac.th",
    position: "Student"
  }
]
```

```

},
{
  firstName: "Jittapong",
  lastName: "Jongjai",
  email: "jittapong_jo65@live.rmutl.ac.th",
  position: "Student"
}
];

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");
});

app.get('/', (req,res) => {
  res.sendFile(path.join(__dirname, '../my-app/build/index.html'));
});

app.listen(port, () => {
  console.log(`Server listening on the port:::${port}`);
});

```

my-app/src/components/Users.js

```

import React from 'react'

export const Users = ({users}) => {

  console.log('users length:::', users.length)
  if (users.length === 0) return null

  const UserRow = (user,index) => {

    return(
      <tr key = {index} className={index%2 === 0?'odd':'even'}>
        <td>{index + 1}</td>
        <td>{user.firstName}</td>
        <td>{user.lastName}</td>
        <td>{user.email}</td>
        <td>{user.position}</td>
      </tr>
    )
  }
}

export default Users

```

```

        )
    }

    const userTable = users.map((user, index) => UserRow(user, index))

    return(
        <div className="container">
            <h2>Users</h2>
            <table className="table table-bordered">
                <thead>
                    <tr>
                        <th>User Id</th>
                        <th>Firstname</th>
                        <th>Lastname</th>
                        <th>Email</th>
                        <th>Position</th>
                    </tr>
                </thead>
                <tbody>
                    {userTable}
                </tbody>
            </table>
        </div>
    )
}

```

result

The screenshot shows a browser window with the title 'React With NodeJS'. On the left, there is a 'Create User' form with fields for First Name, Last Name, Email, and a 'Create' button. On the right, there is a green box titled 'Users Created' containing the number '3' and a 'Get all Users' button.

Users

User Id	Firstname	Lastname	Email	Position
1	Jiraphat	Jamprasert	jiraphat_ja64@live.rmutl.ac.th	Student
2	Teerapat	Chomchoey	teerapat_ch65@live.rmut.ac.th	Student
3	Jittapong	Jongjai	jittapong_jo65@live.rmutl.ac.th	Student

Step6

ไปที่ github ของตัวเองและทำการสร้าง repository ใหม่ ชื่อว่า engce301-final-lab-64543206005-3

The screenshot shows the 'Create a new repository' form on GitHub. The 'Repository name' field contains 'engce301-final-lab-64543206005-3'. A note below it says 'engce301-final-lab-64543206005-3 is available.' Below the repository name, there's a 'Description (optional)' field with a single character 'I'. Under 'Visibility', 'Public' is selected. The 'Initialize this repository with:' section has the 'Add a README file' checkbox checked. The 'Add .gitignore' section shows a dropdown menu set to 'None'. The 'Choose a license' section shows a dropdown menu set to 'None'.

Initialize this repository with:

Add a README file

This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template:

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

License:

The screenshot shows a GitHub repository page. At the top, there's a navigation bar with links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the navigation bar, the repository name 'engce301-final-lab-64543206005-3' is displayed, along with a Public link and a star count of 0. On the left, there's a section for 'Set up GitHub Copilot' with a button to 'Get started with GitHub Copilot'. On the right, there's a section for 'Add collaborators to this repository' with a 'Invite collaborators' button. Below these sections, there's a 'Quick setup — if you've done this kind of thing before' area. It includes a 'Set up in Desktop' button, an 'or' link, an 'HTTPS' button, an 'SSH' button, and a URL 'https://github.com/Jiraphat-DEV/engce301-final-lab-64543206005-3.git'. A note below the URL says 'Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#)'. At the bottom of this section, there's a command-line setup guide:

```
echo "# engce301-final-lab-64543206005-3" >> README.md  
git init  
git add README.md  
git commit -m "first commit"  
git branch -M main  
git remote add origin https://github.com/Jiraphat-DEV/engce301-final-lab-64543206005-3.git  
git push -u origin main
```

Step7

ในเครื่องตัวเองให้เข้าไปที่ directory ชื่อ `engce301-final-lab-64543206005-3` ที่ทำงานมาตั้งแต่ STEP1-5 และใช้คำสั่ง `git init`

เพื่อสร้างข้อมูล git ของ directory ปัจจุบัน จากนั้นทำการเอาข้อมูลงานทั้งหมดใน directory ชื่อ `engce301-final-lab-64543206005-3` ขึ้น git repository ของตัวเองที่สร้างขึ้น

```
engce301-final-lab-64543206005-3 -- zsh - 101x30
...ce301/Step4/client -- zsh ...ce301/Step4/server -- zsh ...64543206005-3 -- zsh ...06005-3/my-app -- zsh +
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % pwd
/Users/jiraphat/Desktop/ProjectHub/SD-final/engce301-final-lab-64543206005-3
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % ls -al
total 32
drwxr-xr-x  7 jiraphat  staff   224 Oct 24 15:08 .
drwxr-xr-x  5 jiraphat  staff   160 Oct 24 14:42 ..
-rw-r--r--@  1 jiraphat  staff  6148 Oct 24 14:47 .DS_Store
-rw-r--r--@  1 jiraphat  staff  4884 Oct 24 15:08 README.md
drwxrwxr-x@ 10 jiraphat  staff   320 Oct 24 14:43 api
drwxr-xr-x@ 10 jiraphat  staff   320 Oct 24 15:07 assets
drwxrwxr-x@ 10 jiraphat  staff   320 Oct 24 14:45 my-app
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % git init
Initialized empty Git repository in /Users/jiraphat/Desktop/ProjectHub/SD-final/engce301-final-lab-64543206005-3/.git/
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 %
```

```
git add ., git commit -m 'first commit'
```

```
engce301-final-lab-64543206005-3 -- zsh - 101x30
...ce301/Step4/client -- zsh ...ce301/Step4/server -- zsh ...64543206005-3 -- zsh ...06005-3/my-app -- zsh +]
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % git add .
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % git commit -m "fist commit"
[master (root-commit) 442095f] fist commit
 42 files changed, 25403 insertions(+)
create mode 100644 .DS_Store
create mode 100644 README.md
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 assets/image-25671024144216140.png
create mode 100644 assets/image-25671024144326592.png
create mode 100644 assets/image-25671024144424330.png
create mode 100644 assets/image-25671024144810115.png
create mode 100644 assets/image-25671024144917010.png
create mode 100644 assets/image-25671024150551385.png
create mode 100644 assets/image-25671024150703466.png
create mode 100644 assets/image-25671024150734720.png
create mode 100644 assets/image-25671024150903754.png
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
```

```
git remote add origin https://github.com/Jiraphat-DEV/engce301-final-lab-64543206005-3.git
```

The screenshot shows a macOS terminal window titled "engce301-final-lab-64543206005-3 — zsh — 101x30". The window has four tabs:

- ..ce301/Step4/client — zsh
- ..ce301/Step4/server — zsh
- ...64543206005-3 — zsh
- ...06005-3/my-app — zsh +

The "my-app" tab contains the following command-line output:

```
create mode 100644 assets/image-25671024150703466.png
create mode 100644 assets/image-25671024150734720.png
create mode 100644 assets/image-25671024150903754.png
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
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % git remote add origin http://github.com/Jiraphat-DEV/engce301-final-lab-64543206005-3.git
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 %
```

```
git branch -M main
```

```
engce301-final-lab-64543206005-3 -- zsh - 101x30
...ce301/Step4/client -- zsh ...ce301/Step4/server -- zsh ...64543206005-3 -- zsh ...06005-3/my-app -- zsh +
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
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % git remote add origin http://github.com/Jiraphat-DEV/engce301-final-lab-64543206005-3.git
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % git push
fatal: The current branch master has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin master

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % git branch -M main
(base) jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 %
```

```
git push -u origin main
```

```
engce301-final-lab-64543206005-3 -- zsh - 101x30
...ce301/Step4/client -- zsh ...ce301/Step4/server -- zsh ...64543206005-3 -- zsh ...06005-3/my-app -- zsh +
```

```
fatal: The current branch master has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin master

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.
```

```
[(base)] jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % git branch -M main
[(base)] jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % git push
fatal: The current branch main has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin main

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.
```

```
[(base)] jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 % git push -u origin main
Enumerating objects: 50, done.
Counting objects: 100% (50/50), done.
Delta compression using up to 8 threads
Compressing objects: 100% (49/49), done.
Writing objects: 100% (50/50), 4.61 MiB | 29.52 MiB/s, done.
Total 50 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/Jiraphat-DEV/engce301-final-lab-64543206005-3.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
[(base)] jiraphat@Jiraphats-MacBook-Air-2 engce301-final-lab-64543206005-3 %
```

Step8

เมื่อทำเสร็จแล้ว ให้ป้อน git url ของงานที่นี่

<https://github.com/Jiraphat-DEV/engce301-final-lab-64543206005-3.git>

Step9

ให้ download เอกสารนี้พร้อมเอกสารอินบາຍและภาพระหว่างการทำงาน/ผลการทำงานเป็น pdf

และส่งใน direct message ของ slack