

Mini Project : Member CRUD

WITH IONIC FRAMEWORK VERSION 5

การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่
ผศ.สุรศิทธิ์ ศักดา

```
C:\Windows\System32>npm install -g ionic@5 --force
```

```
C:\Windows\System32>npm install -g ionic@5 --force
npm WARN using --force Recommended protections disabled.
npm WARN deprecated formidable@1.2.6: Please upgrade to latest, formidable@v2 or f
ormidable@v3! Check these notes: https://bit.ly/2ZEqlau
npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older ver
sions may use Math.random() in certain circumstances, which is known to be problem
atic. See https://v8.dev/blog/math-random for details.
npm WARN deprecated superagent@4.1.0: Please upgrade to v7.0.2+ of superagent. We
have fixed numerous issues with streams, form-data, attach(), filesystem errors n
ot bubbling up (ENOENT on attach()), and all tests are now passing. See the relea
ses tab for more information at <https://github.com/visionmedia/superagent/releases>.
npm WARN deprecated ionic@5.4.16: The Ionic CLI now uses ♦ @ionic/cli ♦ for its
package name! ↗ https://twitter.com/ionicframework/status/1223268498362851330

added 234 packages in 17s

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

C:\Windows\System32>

npm **WARN deprecated** formidable@1.2.6: Please upgrade to latest, formidable@v2 or formidable@v3! Check these notes: <https://bit.ly/2ZEqIau>

npm **WARN deprecated** uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See <https://v8.dev/blog/math-random> for details.

npm **WARN deprecated** superagent@4.1.0: Please upgrade to v7.0.2+ of superagent. We have fixed numerous issues with streams, form-data, attach(), filesystem errors not bubbling up (ENOENT on attach()), and all tests are now passing. See the releases tab for more information at <<https://github.com/visionmedia/superagent/releases>>.

npm **WARN deprecated** ionic@5.4.16: The Ionic CLI now uses **ionic/cli** for its package name! ↗ <https://twitter.com/ionicframework/status/1223268498362851330>

added 234 packages in 17s

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

C:\Windows\System32>ionic -v
5.4.16

C:\Windows\System32>

C:\Windows\System32>ionic -version

 CLI 5.4.16

Usage:

```
$ ionic <command> [<args>] [--help] [--verbose] [--quiet] [--no-interactive] [--no-color] [--confirm] [options]
```

Global Commands:

completion

(experimental) Enables tab-completion for Ionic CLI commands.

config <subcommand>

Manage CLI and project config values
(subcommands: get, set, unset)

← → ⏴ ⏵

📁 Desktop > IONIC

Name Date modified Type

Desktop

Downloads

Documents

Pictures

www

junghuu

myBusiness

cloud-kitchen

student-affair

cloud-kitchen-app

View >

Sort by >

Group by >

Undo Delete Ctrl+Z

New >

Properties Alt+Enter

PowerRename

Open in Terminal

Show more options

Windows PowerShell

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Install the latest PowerShell for new features and improvements! <https://aka.ms/pscore-install>

PS C:\Users\UNSCT\Desktop\IONIC> **ionic start myapp tabs**

Pick a framework!

Please select the JavaScript framework to use for you
a value for the `--type` option.

- ? Framework: (Use arrow keys)
- > Angular | <https://angular.io>
- React | <https://reactjs.org>
- .

```
warning: LF will be replaced by CRLF in tsconfig.spec.json.  
The file will have its original line endings in your working directory  
> git.exe commit -m "Initial commit" --no-gpg-sign  
Author identity unknown
```

*** Please tell me who you are.

Run

```
git config --global user.email "you@example.com"  
git config --global user.name "Your Name"
```

to set your account's default identity.

Omit --global to set the identity only in this repository.

```
fatal: unable to auto-detect email address (got 'UNSCT@DESKTOP-1J8KJJF.(none)')  
[WARN] Error encountered during commit. Disabling further git operations.
```

[INFO] Next Steps:

- Go to your newly created project: `cd .\myapp`
- Run `ionic serve` within the app directory to see your app
- Build features and components: <https://ion.link/scaffolding-docs>
- Run your app on a hardware or virtual device: <https://ion.link/running-docs>

```
PS C:\Users\UNSCT\Desktop\IONIC> |
```

global to set the identity only in this repository.
able to auto-detect email address (got 'UNSCT@DESKTOP-
or encountered during commit. Disabling further git o

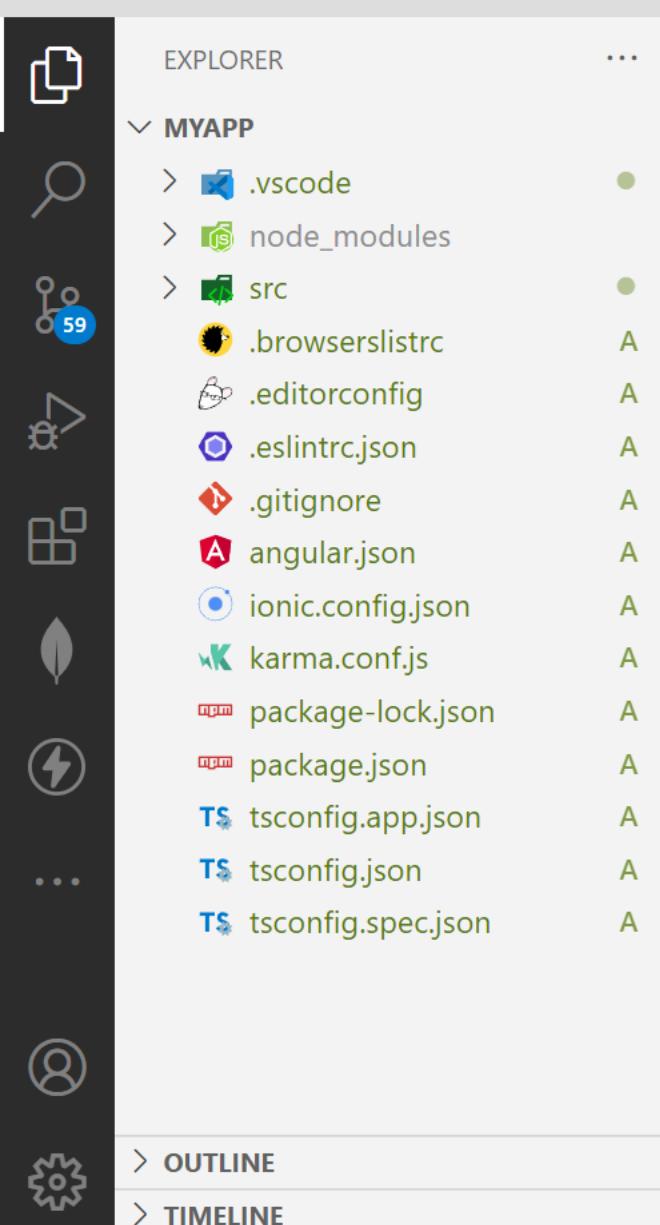
Next Steps:

Go to your newly created project: `cd .\myapp`
Run `ionic serve` within the app directory to see your a
Build features and components: <https://ion.link/scuff>
Run your app on a hardware or virtual device: <https://ion.link/rocks>
rs\UNSCT\Desktop\IONIC> `cd myapp`

o auto-detect email address (got 'UNSCT@DESKTOP-1J8KJ3
countered during commit. Disabling further git operati
ps:

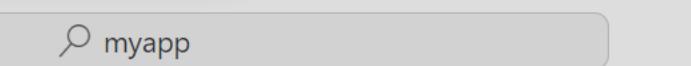
your newly created project: `cd .\myapp`
`ionic serve` within the app directory to see your app
features and components: <https://ion.link/scaffolding>
run your app on a hardware or virtual device: <https://ion.li>
CT\Desktop\IONIC> `cd myapp`
CT\Desktop\IONIC\myapp> `code .`





< master+ ↗ ⚡ 0 ⚡ 0

Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่



Show All Commands **Ctrl + Shift + P**

Go to File **Ctrl + P**

Find in Files **Ctrl + Shift + F**

Toggle Full Screen **F11**

Show Settings **Ctrl + ,**

Screen Reader Optimized **Alt + Shift + O** Go Live **Alt + Shift + G** **Alt + Shift + L**

ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา

auto-detect email address (got 'UNSCT@DESKTOP-1J8KJJF'.
entered during commit. Disabling further git operations.

your newly created project: `cd .\myapp`

`serve` within the app directory to see your app

structures and components: <https://ion.link/scaffolding-documentation>

Run your app on a hardware or virtual device: <https://ion.link/run-your-app>

Desktop\IONIC> `cd myapp`

Desktop\IONIC\myapp> `code .`

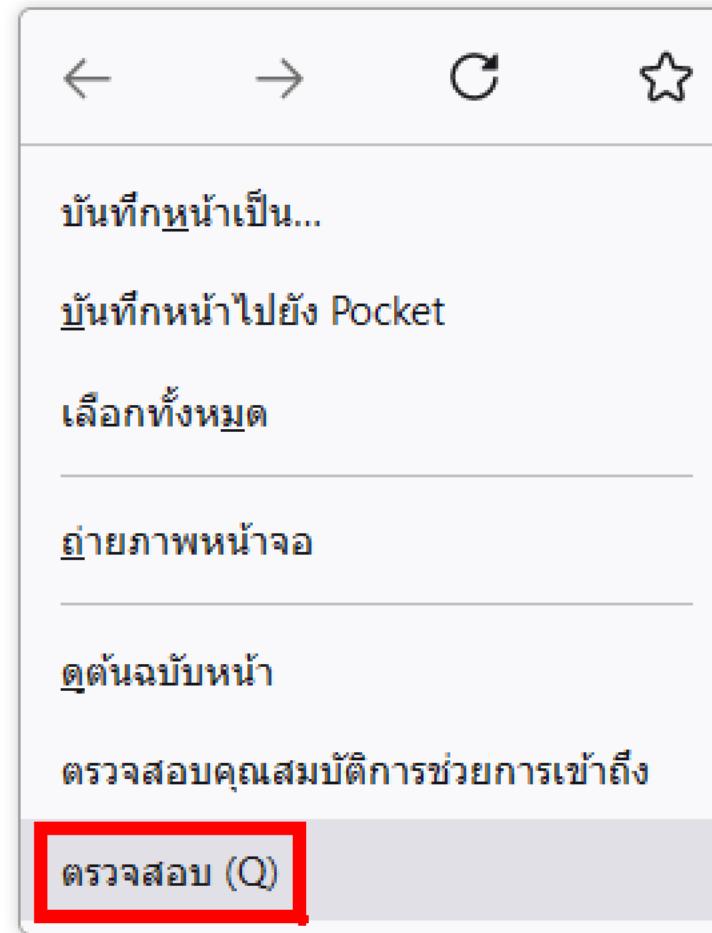
Desktop\IONIC\myapp> `ionic serve`

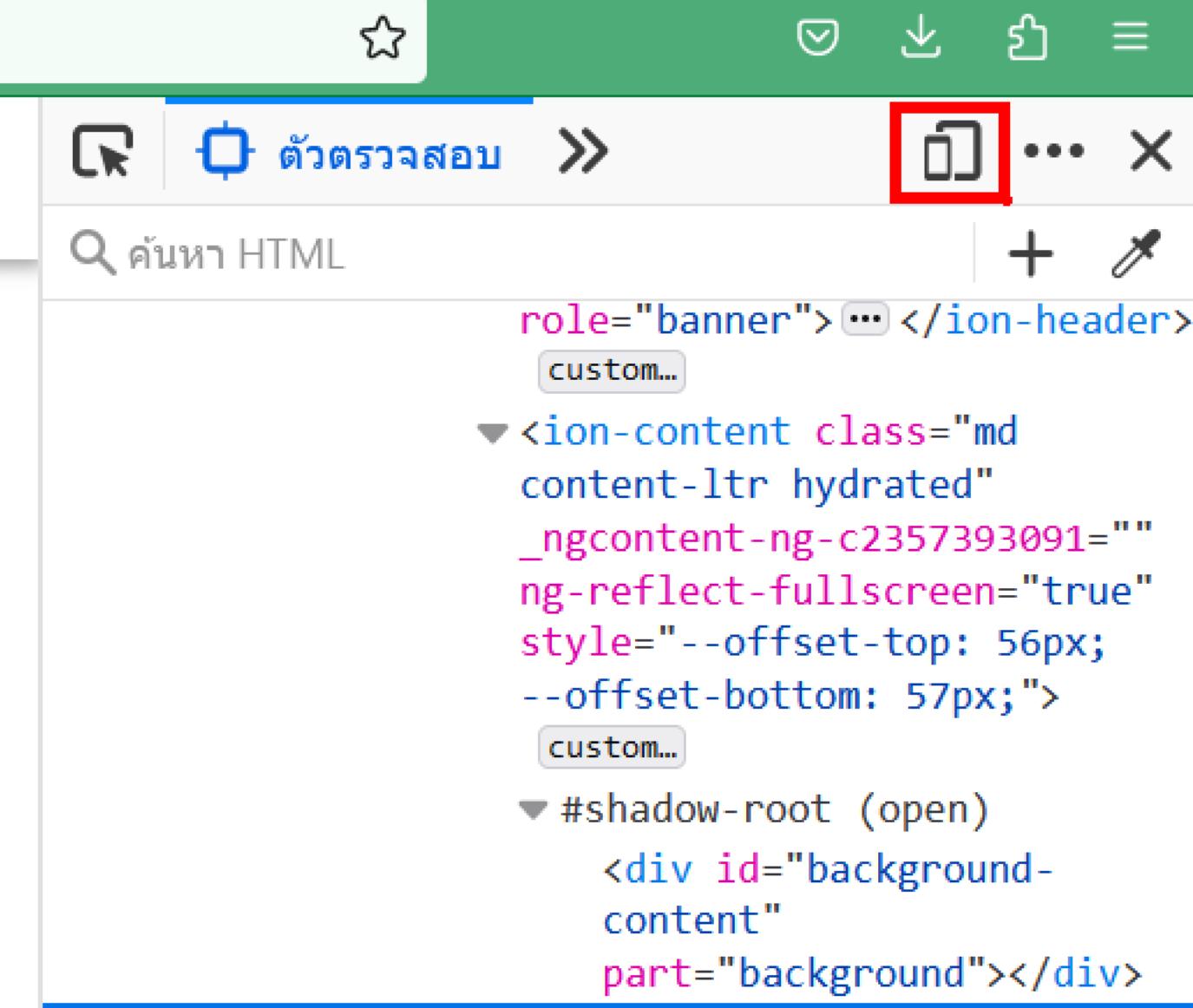




Tab 1 page

Explore UI Components





ตัวตรวจสอบ > **copy**

ค้นหา HTML

```
role="banner">> ... </ion-header>
custom...
```

```
<ion-content class="md content-ltr hydrated"
_ngcontent-ng-c2357393091="" ng-reflect-fullscreen="true"
style="--offset-top: 56px; --offset-bottom: 57px;">
custom...
```

```
#shadow-root (open)
<div id="background-content"
part="background"></div>
```

Firefox Ionic App X +

localhost:8100/tabs/tab1

เข้าสู่ระบบ 383 654 DPR: 1... ไม่มีการควบคุมเบราว์เซอร์ UA: ตัวแทนผู้ใช้ที่กำหนดเอง

ค้นหา HTML

```
role="banner"><...></ion-header>
custom...
<ion-content class="md content-ltr hydrated" _ngcontent-ng-c2357393091="" ng-reflect-fullscreen="true" style="--offset-top: 56px; --offset-bottom: 56px;">
custom...
#shadow-root (open)
<div id="background-content" part="background"></div>
<main class="inner-scroll scroll-y" part="scroll">
<slot name="fixed"></slot>
contents
<ion-header class="md header-md header-collapse-condense hydrated" _ngcontent-ng-c2357393091="" collapse="condense" ng-reflect-collapse="condense" role="banner">...</ion-header>
custom...
<app-explore-container _ngcontent-ng-c2357393091="" name="Tab 1 page" nghost->
```

hydrated > #shadow-root > main.inner-scroll.scroll-y >

กรองลักษณะ :hover .cls องค์ประกอบ Flexbox เลือกตัวเริ่มต้น การเปลี่ยนแปลง

Tab 1

Tab 1 page

Explore UI Components

Tab 1 Tab 2 Tab 3



File Edit Selection View Go Run Terminal Help

← →

New Terminal

Ctrl+Shift+`

Split Terminal

Ctrl+Shift+5

Run Task...

Run Build Task...

Ctrl+Shift+B

Run Active File

Run Selected Text

Show Running Tasks...

Restart Running Task...

Terminate Task...

Configure Tasks...

Configure Default Build Task...





File Edit Selection View Go Run ...

← →



59

PROBLEMS

OUTPUT

TERMINAL

DEBUG CONSOLE

PS C:\Users\UNSCT\Desktop\IONIC\myapp> **ionic g page login**

The screenshot shows the Microsoft Visual Studio Code (VS Code) interface. At the top, there's a search bar with the text "myapp". The left sidebar has icons for files, search, and other tools, with a notifications badge of "66" on the search icon. The main area features a large "X" watermark. Below it, the terminal tab is active, displaying the following command-line session:

```
● PS C:\Users\UNSCT\Desktop\IONIC\myapp> ionic g page login
> ng.cmd generate page login
CREATE src/app/login/login-routing.module.ts (343 bytes)
CREATE src/app/login/login.module.ts (465 bytes)
CREATE src/app/login/login.page.html (300 bytes)
CREATE src/app/login/login.page.spec.ts (446 bytes)
CREATE src/app/login/login.page.ts (252 bytes)
CREATE src/app/login/login.page.scss (0 bytes)
UPDATE src/app/app-routing.module.ts (530 bytes)
[OK] Generated page!
```

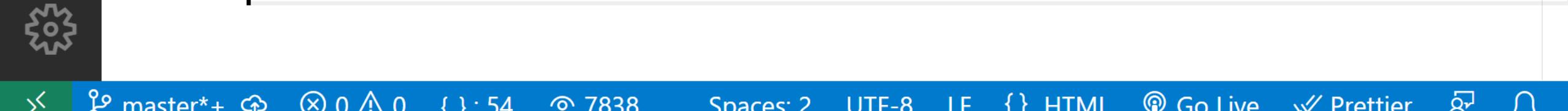
○ PS C:\Users\UNSCT\Desktop\IONIC\myapp> █

The terminal toolbar includes icons for powershell, a plus sign, a minus sign, a trash can, three dots, and a close button (highlighted with a red box). The bottom status bar shows the current branch as "master*+", with other icons for file operations like copy, paste, and search.



login.page.html U X

```
1 <ion-header [translucent]="true">
2   <ion-toolbar>
3     <ion-title>login</ion-title>
4   </ion-toolbar>
5 </ion-header>
6
7 <ion-content [fullscreen]="true">
8   <ion-header collapse="condense">
9     <ion-toolbar>
10    <ion-title size="large">login</ion-title>
11  </ion-toolbar>
12 </ion-header>
13 </ion-content>
14
```





login.page.html U X

```
1 <ion-content>
2   <div style="padding:50px; text-align:center;">
3     <div style="font-size:18pt; margin-bottom:50px;">MEMBER LOGIN</div>
4   </div>
5 </ion-content>
6
7
```

115



ionic DOCS

▼ Icons

ion-icon

▼ Input

ion-input

ion-textarea

▼ Item

ion-item

ion-input

The input component is a wrapper to the HTML styling and additional functionality. It accepts n

```
<!-- Inputs with labels -->
<ion-item>
  <ion-label>Default Label</ion-label>
  <ion-input></ion-input>
</ion-item>

<ion-item>
  <ion-label position="floating">Floating Label</ion-label>
  <ion-input></ion-input>
</ion-item>

<ion-item>
  <ion-label position="fixed">Fixed Label</ion-label>
  <ion-input></ion-input>
</ion-item>

<ion-item>
  <ion-label position="stacked">Stacked Label</ion-label>
  <ion-input></ion-input>
</ion-item>
```

The screenshot shows a code editor interface with the following details:

- Title Bar:** myapp
- Sidebar Icons:** File, Search, Issues (115), Preview, and Help.
- File Tab:** login.page.html
- Code Content:** An Ionic Angular template for a login page. It includes:
 - An ion-content container with a central div for member login.
 - Two ion-item components for Username and Password, each with an ion-label and an ion-input field.
 - An ion-button for logging in, which is disabled if either the username or password is missing.
 - A template named #templateDis which contains a single ion-button labeled "LOGIN".
- Code Lines:** Lines 1 through 20 are visible, with the entire content area highlighted by a red rectangle.
- Status Bar:** Shows the file is on master*, 54 lines, 7838 characters, and the current position is Ln 20, Col 1.
- Bottom Navigation:** Includes links for Go Live, Prettier, and other editor functions.
- Page Footer:** Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่ and ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา

```
TS login.page.ts ×

1 import { Component, OnInit } from '@angular/core';
2 import { Router } from '@angular/router';
3
4 @Component({
5   selector: 'app-login',
6   templateUrl: './login.page.html',
7   styleUrls: ['./login.page.scss'],
8 })
9 export class LoginPage implements OnInit {
10
11   username: any;
12   password: any;
13
14   constructor(private router: Router) { }
15
16   onCheck() {
17     this.router.navigateByUrl('tabs/home');
18   }
19
20   ngOnInit() {
```

myapp

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Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่

ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา



localhost:8100/login

ເຊື້ອຕອນສນອງ

383 x 654



DPR: 1...

ໄມ້ມີກາຣຄວບຄຸມປົ້ມປົ້ມາສັນ

UA: ຕ້າແທນຜູ້ໃຊ້ທີ່ກໍາທັນດອງ



MEMBER LOGIN

Username:

Password:

LOGIN



EXPLORER

...

MYAPP

app

- > explore-container
- > login
- > tab1
- > tab2
- > tab3
- > tabs
- TS app-routing.module.ts M
- SVG app.component.html A
- SCSS app.component.scss A
- TS app.component.spec.... A
- TS app.component.ts A
- TS app.module.ts A
- > assets
- > environments

> OUTLINE

> TIMELINE

66

...

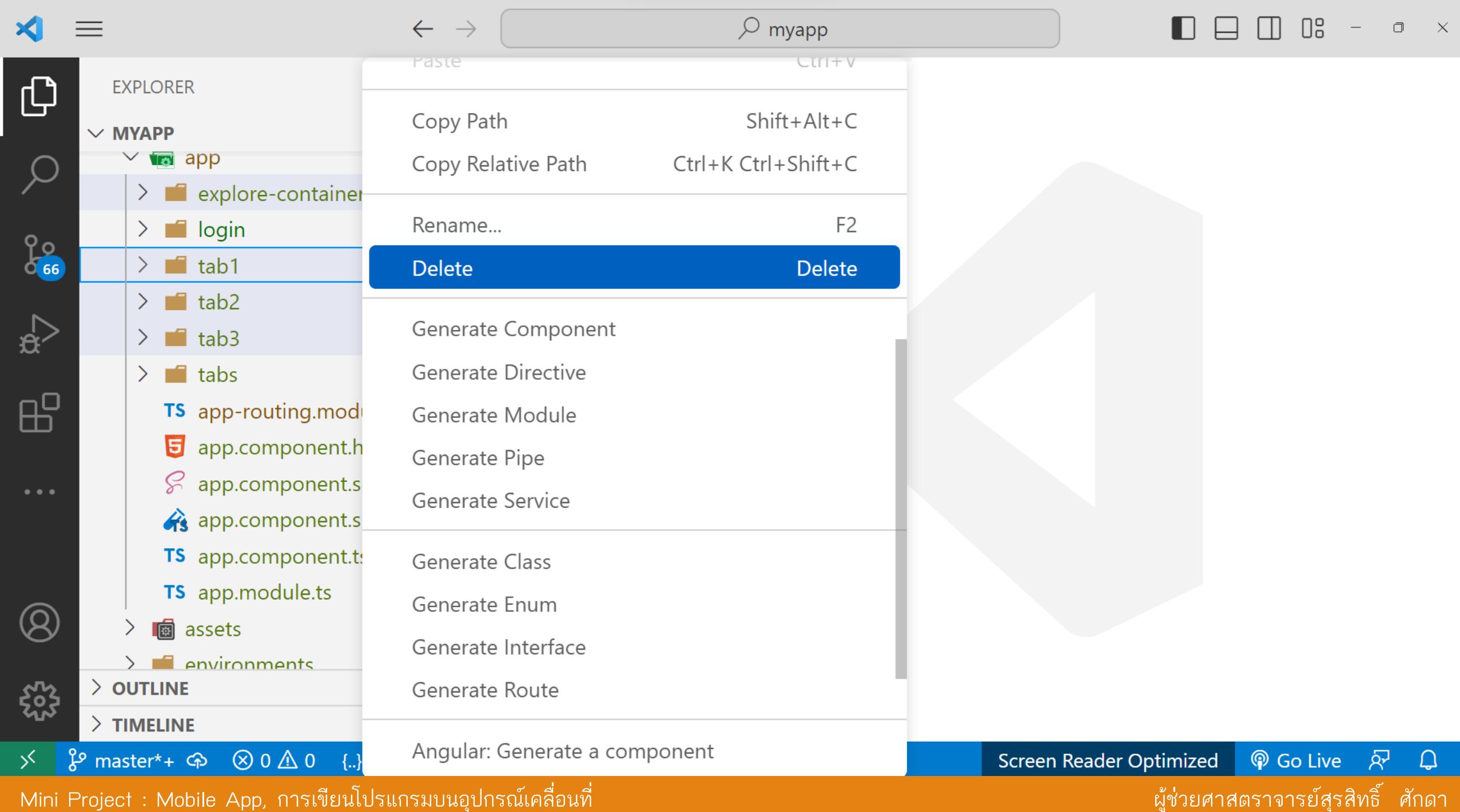
master*+ ↕ ⊗ 0 △ 0 {..} : 42 ⏴ 7838

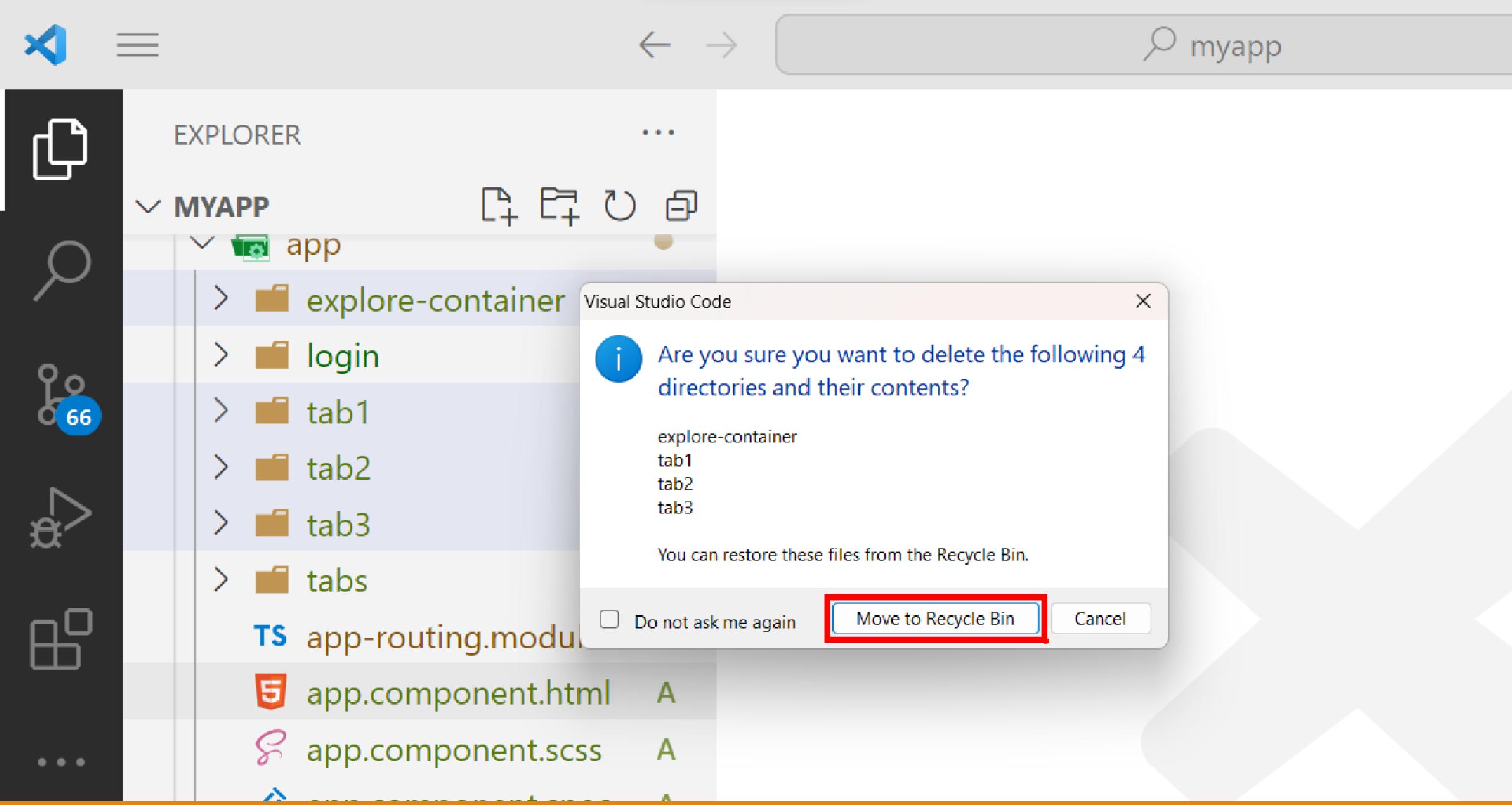
Screen Reader Optimized

Go Live 🔍 📲

ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา

Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่







File Edit Selection View Go Run Terminal Help

← →

New Terminal

Ctrl+Shift+`

Split Terminal

Ctrl+Shift+5

Run Task...

Run Build Task...

Ctrl+Shift+B

Run Active File

Run Selected Text

Show Running Tasks...

Restart Running Task...

Terminate Task...

Configure Tasks...

Configure Default Build Task...



The screenshot shows the Microsoft Visual Studio Code (VS Code) interface. The title bar includes the VS Code logo, a search bar with the text "myapp", and standard window control buttons. The left sidebar has icons for Problems, Output, Terminal (which is underlined), Debug Console, and other development tools, with a notification count of 89. The main area shows a terminal window with the following content:

```
PS C:\Users\UNSCT\Desktop\IONIC\myapp> ionic g page home
```

The terminal has three tabs: "powershell", "+", and "x". On the far right of the terminal area, there are three small preview windows showing different parts of the application. The bottom status bar shows the current branch is "master", with 42 changes, 7838 lines of code, and a screen reader optimized status.

› ⚡ master*+ ⏵ ⚡ 0 ⚡ 0 {..}:42 ⚡ 7838

Screen Reader Optimized

Go Live





PROBLEMS

OUTPUT

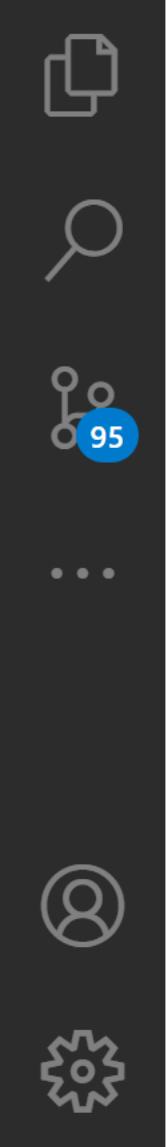
TERMINAL

DEBUG CONSOLE

powershell



```
PS C:\Users\UNSCT\Desktop\IONIC\myapp> ionic g page member
```



master*+ ↗ ⚡ 0 ⚡ 0 {..}:45 ⏴ 7838

Screen Reader Optimized

Go Live



A screenshot of the Microsoft Visual Studio Code (VS Code) interface. The title bar shows the VS Code logo, a search bar with the text "myapp", and standard window control buttons. The left sidebar has icons for Problems (101), Output, Terminal (selected), Debug Console, and other developer tools. The main area is a terminal window displaying the command "PS C:\Users\UNSCT\Desktop\IONIC\myapp> ionic g page project". The status bar at the bottom shows the current branch is "master", with 48 changes and 7838 commits, along with links for "Screen Reader Optimized", "Go Live", and notifications.

› ⚡ master*+ ⏵ ⚡ 0 ⚡ 0 {..}:48 ⚡ 7838

Screen Reader Optimized

Go Live





TS tabs-routing.module.ts 3, A X



```
8   component: TabsPage,
9   children: [
10  {
11    path: 'tab1',
12    loadChildren: () => import('../tab1/tab1.module').then(m => m.Tab1PageModule)
13  },
14  {
15    path: 'tab2',
16    loadChildren: () => import('../tab2/tab2.module').then(m => m.Tab2PageModule)
17  },
18  {
19    path: 'tab3',
20    loadChildren: () => import('../tab3/tab3.module').then(m => m.Tab3PageModule)
21  },
22  {
23    path: ''.
```



107



...



< master*+ ⌂ ⌂ 3 △ 0 {..}: 51 ⌂ 7838

UTF-8 LF {} TypeScript ⌂ Go Live ⌂ Prettier ⌂ ⌂ ⌂

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ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา

The screenshot shows the Microsoft Visual Studio Code interface with the following details:

- Title Bar:** myapp
- Sidebar:** Includes icons for File, Search, Find, and Settings, with a notification badge of 108.
- Active File:** tabs-routing.module.ts (TypeScript)
- Code Content:** A portion of the tabs-routing.module.ts file is shown, defining routes for 'home', 'member', and 'project' paths. The code is highlighted with syntax coloring and a red rectangular selection box around the first three route definitions.

```
8  component: TabsPage,
9  children: [
10 {
11   path: 'home',
12   loadChildren: () => import('../home/home.module').then(m => m.HomePageModule)
13 },
14 {
15   path: 'member',
16   loadChildren: () => import('../member/member.module').then(m => m.MemberPageMod
17 },
18 {
19   path: 'project',
20   loadChildren: () => import('../project/project.module').then(m => m.ProjectPageMod
21 },
22 {
23   path: '',
```

- Bottom Status Bar:** master*, 0 △ 0, {..}: 51, 7838, UTF-8, LF, {}, TypeScript, Go Live, Prettier, and a few other icons.
- Page Footer:** Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่, ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา



TS tabs-routing.module.ts M X

```
25     pathMatch: 'full'
26   }
27 ]
28 },
29 {
30   path: '',
31   redirectTo: '/login',
32   pathMatch: 'full'
33 }
34 ];
35
36 @NgModule({
37   imports: [RouterModule.forChild(routes)],
38 })
39 export class TabsPageRoutingModule {}
```

The code block shows a portion of a TypeScript file for a routing module. A red box highlights the configuration for a wildcard route (path '') that redirects to '/login' with a full path match. The file also includes imports for RouterModule and a class definition for TabsPageRoutingModule.





```
tabs.page.html M X
3 <ion-tab-bar slot="bottom" color="danger" mode="md">
4   <ion-tab-button tab="home">
5     <ion-icon name="home-outline"></ion-icon>
6     <ion-label>หน้าหลัก</ion-label>
7   </ion-tab-button>
8
9   <ion-tab-button tab="member">
10    <ion-icon name="person-outline"></ion-icon>
11    <ion-label>สมาชิก</ion-label>
12  </ion-tab-button>
13
14  <ion-tab-button tab="project">
15    <ion-icon name="apps-outline"></ion-icon>
16    <ion-label>โปรเจค</ion-label>
17  </ion-tab-button>
18 </ion-tab-bar>
```

Ionic App

localhost:8100/tabs/home

เข้าสู่ระบบ | 383 | 654 | DPR: 1.0 | ไม่มีการควบคุมเบราว์เซอร์ | UA: ตัวแทนผู้ใช้ที่กำหนดเอง

home

หน้าหลัก สมาชิก โปรเจค

ค้นหา HTML

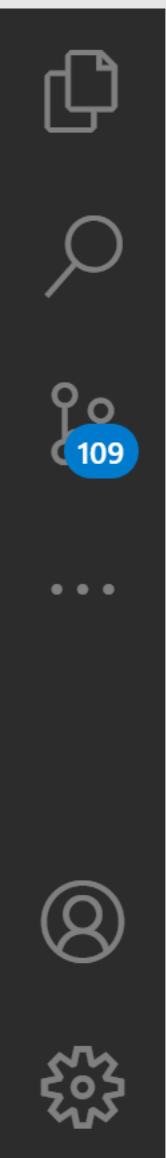
```
<!DOCTYPE html>
<html class="plt-desktop md hydrated" lang="en">
  <head> ... </head>
  <body>
    <app-root _ngc="c750168442="" ng-version="16.2.2"> ... </app-root>
    <script src="runtime.js" type="module"></script>
    <script src="polyfills.js" type="module"></script>
    <script src="styles.js" defer=""></script>
    <script src="vendor.js" type="module"></script>
    <script src="main.js" type="module"></script>
  </body>
</html>
```

html.plt-desktop.md.hydrated > body

กรองลักษณะ เลือก คำนวณ การเปลี่ยนแปลง

:hover .cls ▶ Flexbox

องค์ ▶ เลือกตาราง



5 member.page.html U X

```
1 <ion-header [translucent]="true">
2   <ion-toolbar color="danger" mode="md">
3     <ion-title>สมาชิก</ion-title>
4   </ion-toolbar>
5 </ion-header>
6
7 <ion-content [fullscreen]="true">
8   <div style="height:20px;"></div>
9
10 </ion-content>
11
```





▼ Item

[ion-item](#)[ion-item-divider](#)[ion-item-group](#)[ion-item-sliding](#)[ion-item-options](#)[ion-item-option](#)[ion-label](#)

</ion-item>

Detail Arrows

```
<ion-item detail>
```

```
  <ion-label> Standard Item with Detail Arrow </ion-label>
```

```
</ion-item>
```

```
<ion-item button (click)="buttonClick()" detail>
```

```
  <ion-label> Button Item with Detail Arrow </ion-label>
```

Detail Arrows

Copy

```
<ion-item detail>
  <ion-label> Standard Item with Detail Arrow </ion-label>
</ion-item>
```

```
<ion-item button (click)="buttonClick()" detail>
  <ion-label> Button Item with Detail Arrow </ion-label>
</ion-item>
```

```
<ion-item detail="false" href="https://www.ionicframework.com">
  <ion-label> Anchor Item with no Detail Arrow </ion-label>
</ion-item>
```

List Items

The screenshot shows a code editor interface with the following details:

- Title Bar:** myapp
- Sidebar Icons:** File, Search, Issues (109), User, Settings.
- File:** member.page.html
- Code Content:**

```
5   </ion-header>
6
7   <ion-content [fullscreen]="true">
8     <div style="height:20px;"></div>
9     <ion-item detail>
10    <ion-label>ชื่อสมาชิกคนที่ 1</ion-label>
11  </ion-item>
12  <ion-item detail>
13    <ion-label>ชื่อสมาชิกคนที่ 2</ion-label>
14  </ion-item>
15  <ion-item detail>
16    <ion-label>ชื่อสมาชิกคนที่ 3</ion-label>
17  </ion-item>
18 </ion-content>
19
```
- Red Box:** A red rectangular box highlights the following block of code:

```
<ion-item detail>
<ion-label>ชื่อสมาชิกคนที่ 1</ion-label>
</ion-item>
<ion-item detail>
<ion-label>ชื่อสมาชิกคนที่ 2</ion-label>
</ion-item>
<ion-item detail>
<ion-label>ชื่อสมาชิกคนที่ 3</ion-label>
</ion-item>
```

Firefox Ionic App ion-item | Ionic Documentation + ↻ ⌂ ⌄ ×

localhost:8100/tabs/member

เข้าสู่ระบบ หน้าหลัก สมานาชิก โปรเจค

ไม่มีการควบคุมบิมานา UA: ตัวแทนผู้ใช้ที่กำหนดเอง

ตรวจสอบ

ค้นหา HTML

```
<!DOCTYPE html>
<html class="plt-desktop md hydrated" lang="en">
  <head> ... </head>
  <body>
    <app-root _ngc="c750168442="" ng-version="16.2.2"> ... </app-root>
    <script src="runtime.js" type="module"></script>
    <script src="polyfills.js" type="module"></script>
    <script src="styles.js" defer=""></script>
    <script src="vendor.js" type="module"></script>
    <script src="main.js" type="module"></script>
  </body>
</html>
```

html.plt-desktop.md.hydrated > body

กรองลักษณะ เลือก คำนวณ การเปลี่ยนแปลง

:hover .cls ▶ Flexbox

องค์ ▶ เลือกตาราง

[ion-datetime](#)[ion-picker](#)

▼ Floating Action Button

[ion-fab](#)[ion-fab-button](#)[ion-fab-list](#)

▼ Grid

ion-fab

Fabs are container elements that contain one or more components.

They should be placed in a fixed position that does not scroll with the rest of the page.

Usage

Angular

Javascript

React

Stencil

Vue

Copy

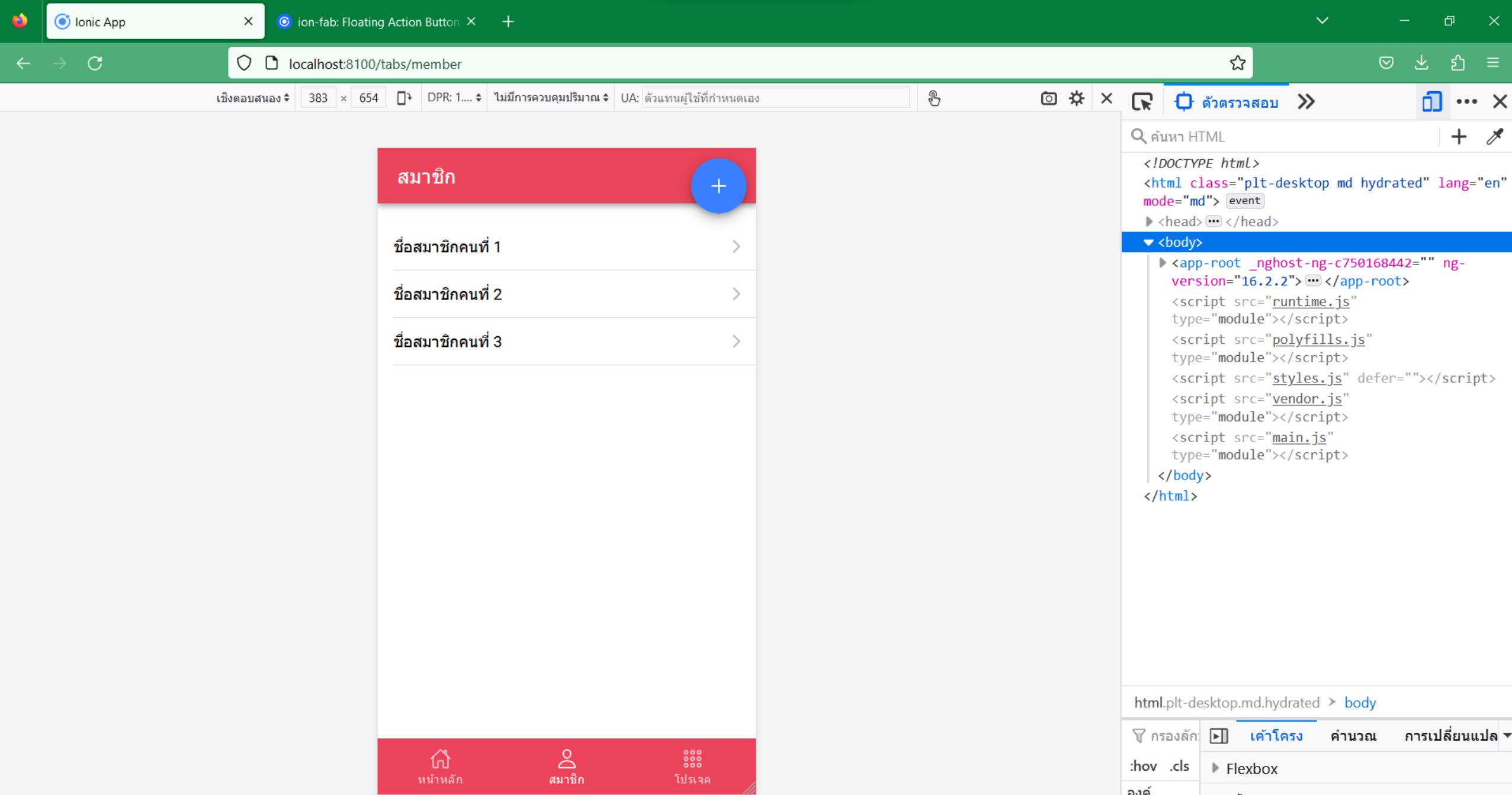
```
<ion-header>
  <ion-toolbar>
    <ion-title>Header</ion-title>
  </ion-toolbar>
</ion-header>

<ion-content>
  <!-- fab placed to the top end -->
  <ion-fab vertical="top" horizontal="end" slot="fixed">
    <ion-fab-button>
      <ion-icon name="add"></ion-icon>
    </ion-fab-button>
  </ion-fab>
```

The screenshot shows a code editor interface with the following details:

- Title Bar:** myapp
- Sidebar:** Includes icons for File (1), Search, Issues (109), and Settings.
- Active File:** member.page.html
- Code Content:** An Ionic framework template for a page named "member". The code includes sections for ion-content, ion-item, ion-label, and an ion-fab button.
- Red Box Selection:** A red rectangular box highlights the following code block:

```
<ion-fab vertical="top" horizontal="end" slot="fixed">
  <ion-fab-button>
    <ion-icon name="add"></ion-icon>
  </ion-fab-button>
</ion-fab>
```





member.page.html U X

```
11 </ion-item>
12 <ion-item detail>
13 | <ion-label>ข้อมูลสมาชิกคนที่ 2</ion-label>
14 </ion-item>
15 <ion-item detail>
16 | <ion-label>ข้อมูลสมาชิกคนที่ 3</ion-label>
17 </ion-item>
18 </ion-content>
19
20 <ion-fab vertical="top" horizontal="end" slot="fixed">
21 | <ion-fab-button routerLink="/member-add">
22 | | <ion-icon name="add"></ion-icon>
23 | </ion-fab-button>
24 </ion-fab>
25
26
```

master*+ ↕ ⚡ 0 ⚡ 0 {..}: 50 ⏴ 1176 Spaces: 2 UTF-8 LF {} HTML ⏹ Go Live ✓ Prettier ⏹ ⏹



TS app.module.ts M X

```
9
10 | import { HttpClientModule } from '@angular/common/http';
11 |
12 @NgModule({
13   declarations: [AppComponent],
14   imports: [BrowserModule,
15             IonicModule.forRoot(),
16             AppRoutingModule,
17             HttpClientModule],
18   providers: [{  
19     provide: RouteReuseStrategy,  
20     useClass: IonicRouteStrategy  
21   }],
22   bootstrap: [AppComponent],
23 })
24 export class AppModule { }
```





File Edit Selection View Go Run Terminal Help

← →

New Terminal

Ctrl+Shift+`

Split Terminal

Ctrl+Shift+5

Run Task...

Run Build Task...

Ctrl+Shift+B

Run Active File

Run Selected Text

Show Running Tasks...

Restart Running Task...

Terminate Task...

Configure Tasks...

Configure Default Build Task...





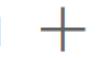
PROBLEMS

OUTPUT

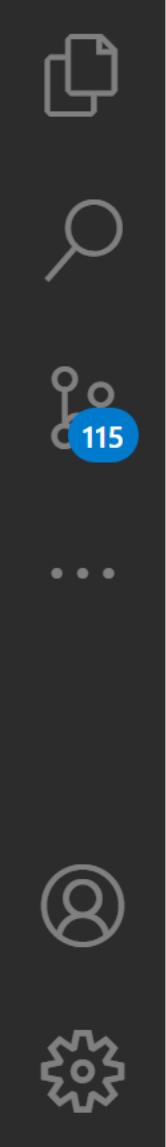
TERMINAL

DEBUG CONSOLE

powershell



```
PS C:\Users\UNSCT\Desktop\IONIC\myapp> ionic g service services/member
```



master*+ ↗ 0 ⚠ 0 {..}:42 ⏴ 1176

Screen Reader Optimized

Go Live



The screenshot shows the Visual Studio Code interface with the following details:

- Title Bar:** myapp
- Sidebar:** Includes icons for File, Search, Problems (136), and Preview.
- Code Editor:** The file `member.service.ts` is open. The code is as follows:

```
1 import { Injectable } from '@angular/core';
2 import { HttpClient } from '@angular/common/http';
3
4 @Injectable({
5   providedIn: 'root'
6 })
7 export class MemberService {
8   private apiURL = "http://127.0.0.1:8080/member/";
9
10 constructor(private httpClient: HttpClient) { }
11
12 }
13
14
```

Lines 2 and 8 are highlighted with red boxes.

The screenshot shows the Visual Studio Code interface with the following details:

- Title Bar:** myapp
- Sidebar:** Includes icons for File, Search, Problems (136), Preview, and Settings.
- Code Editor:** The file `member.service.ts` is open. The code defines a `MemberService` class with an `insert` method. A red rectangle highlights the `insert` method's body.

```
1 import { Injectable } from '@angular/core';
2 import { HttpClient } from '@angular/common/http';
3
4 @Injectable({
5   providedIn: 'root'
6 })
7 export class MemberService {
8   private apiURL = "http://127.0.0.1:8080/member/";
9
10 constructor(private httpClient: HttpClient) { }
11
12 insert(data: any) {
13   return this.httpClient.post(this.apiURL + 'insert.php', JSON.stringify(data))
14 }
15
16 }
17
18
```
- Bottom Status Bar:** master*+ 0△0 {..}: 57 7853 | Ln 18, Col 1 | Spaces: 2 | UTF-8 | LF | {} TypeScript | Go Live | Prettier | 🔍 | 📰 | ⏱



File Edit Selection View Go Run Terminal Help

← →

New Terminal

Ctrl+Shift+`

Split Terminal

Ctrl+Shift+5

Run Task...

Run Build Task...

Ctrl+Shift+B

Run Active File

Run Selected Text

Show Running Tasks...

Restart Running Task...

Terminate Task...

Configure Tasks...

Configure Default Build Task...



The screenshot shows the Microsoft Visual Studio Code (VS Code) interface. The title bar includes the VS Code logo, a search bar with the text "myapp", and standard window control buttons. The left sidebar has icons for Problems, Output, Terminal, Debug Console, and other development tools, with a notification badge "109" on the terminal icon. The main menu bar has tabs for PROBLEMS, OUTPUT, TERMINAL (which is underlined), and DEBUG CONSOLE. Below the menu is a toolbar with icons for powershell, a plus sign, a dropdown arrow, a close button, and a trash can. The central workspace shows a terminal window with a history of commands. The first command listed is "PS C:\Users\UNSCT\Desktop\IONIC\myapp> ionic g page memberAdd". To the right of the terminal, there is a vertical scroll bar and a panel containing four small terminal preview windows, each showing a single character ">".

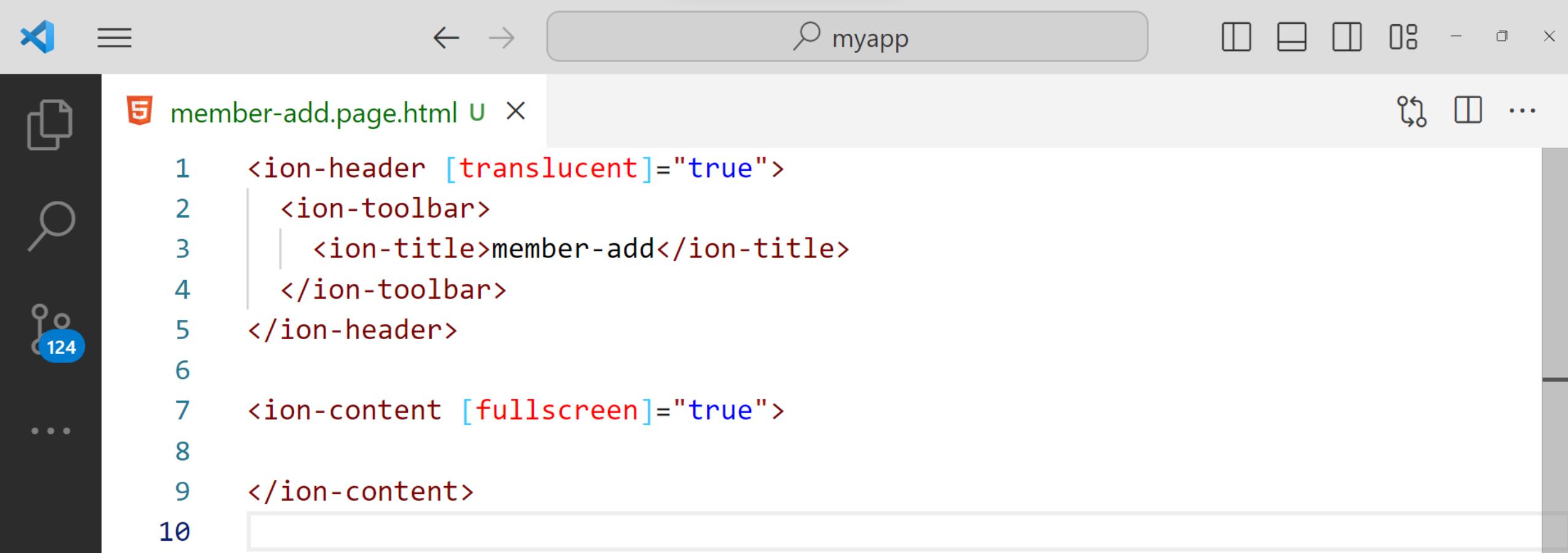
```
PS C:\Users\UNSCT\Desktop\IONIC\myapp> ionic g page memberAdd
```

master*+ ↗ ⚡ 0 ⚡ 0 {..}: 51 ⏴ 7838

Screen Reader Optimized

Go Live





The screenshot shows a code editor interface with the following details:

- Title Bar:** The title bar includes a back arrow, forward arrow, a search bar containing "myapp", and window control buttons (minimize, maximize, close).
- Sidebar:** On the left, there are several icons: a file icon, a magnifying glass icon, a circular icon with "124" (likely notifications), three dots, a user icon, and a gear icon.
- File Tab:** The active tab is "member-add.page.html" with a small "U" icon indicating it's untracked or dirty.
- Code Area:** The main area displays the following Ionic code:

```
1 <ion-header [translucent]="true">
2   <ion-toolbar>
3     <ion-title>member-add</ion-title>
4   </ion-toolbar>
5 </ion-header>
6
7 <ion-content [fullscreen]="true">
8
9 </ion-content>
10
```
- Bottom Bar:** The bottom bar shows the current branch ("master*+"), file count (0), error count (0), line numbers (51), character count (7841), and various file format and live preview options.



The screenshot shows a code editor interface with the following details:

- Title Bar:** The title bar includes a back arrow, forward arrow, a search bar containing "myapp", and window control buttons (minimize, maximize, close).
- Sidebar:** On the left, there are several icons: a file icon, a magnifying glass icon, a circular icon with "124" (likely notifications), three dots, a user icon, and a gear icon.
- File Tab:** The active tab is "member-add.page.html" with a small "U" icon indicating it's untracked or dirty.
- Code Area:** The main area displays the following Ionic code:

```
1 <ion-header [translucent]="true">
2   <ion-toolbar>
3     <ion-title>member-add</ion-title>
4   </ion-toolbar>
5 </ion-header>
6
7 <ion-content [fullscreen]="true">
8
9 </ion-content>
10
```
- Bottom Bar:** The bottom bar shows the current branch ("master*+"), file count (0), error count (0), line numbers (51), character count (7841), and various file format and live preview options.

▼ Toast

[ion-toast](#)

▼ Toggle

[ion-toggle](#)

▼ Toolbar

[ion-toolbar](#)[ion-header](#)[ion-footer](#)[ion-title](#)

ion-toolbar

Toolbars are positioned above or below content

in an `<ion-header>` it will appear fixed at the top

it is in an `<ion-footer>` it will appear fixed at the bottom

content will scroll behind a toolbar in a header

Usage

Angular Javascript React Stencil Vue

Copy

```
<ion-toolbar>
  <ion-title>Title Only</ion-title>
</ion-toolbar>

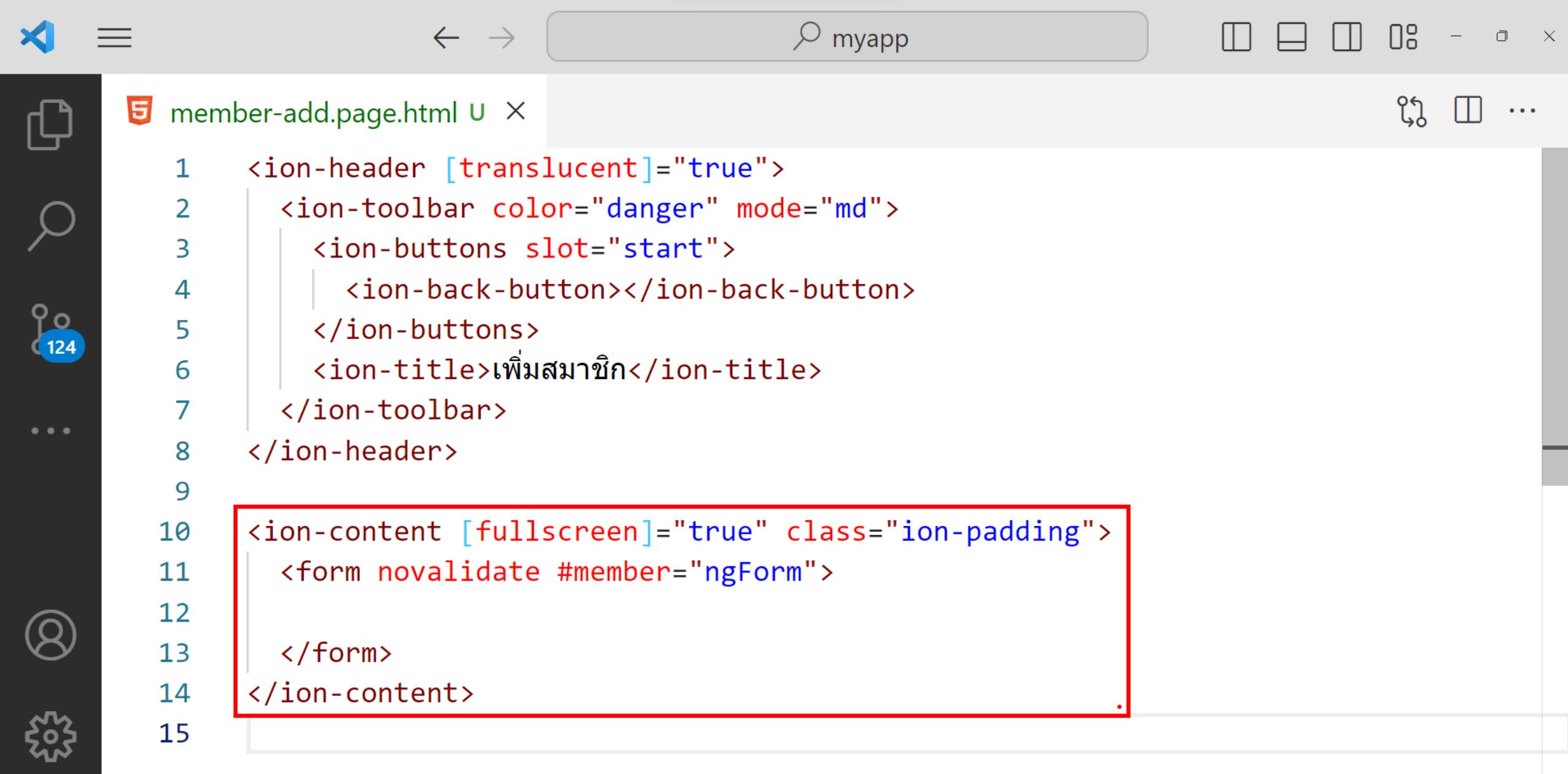
<ion-toolbar>
  <ion-buttons slot="start">
    <ion-back-button></ion-back-button>
  </ion-buttons>
  <ion-title>Back Button</ion-title>
</ion-toolbar>
```

```
<ion-toolbar>
  <ion-title size="small">Small Title above a Default Title</ion-title>
</ion-toolbar>
```



member-add.page.html

```
1 <ion-header [translucent]="true">
2   <ion-toolbar color="danger" mode="md">
3     <ion-buttons slot="start">
4       <ion-back-button></ion-back-button>
5     </ion-buttons>
6     <ion-title>เพิ่มสมาชิก</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content [fullscreen]="true">
11
12 </ion-content>
```

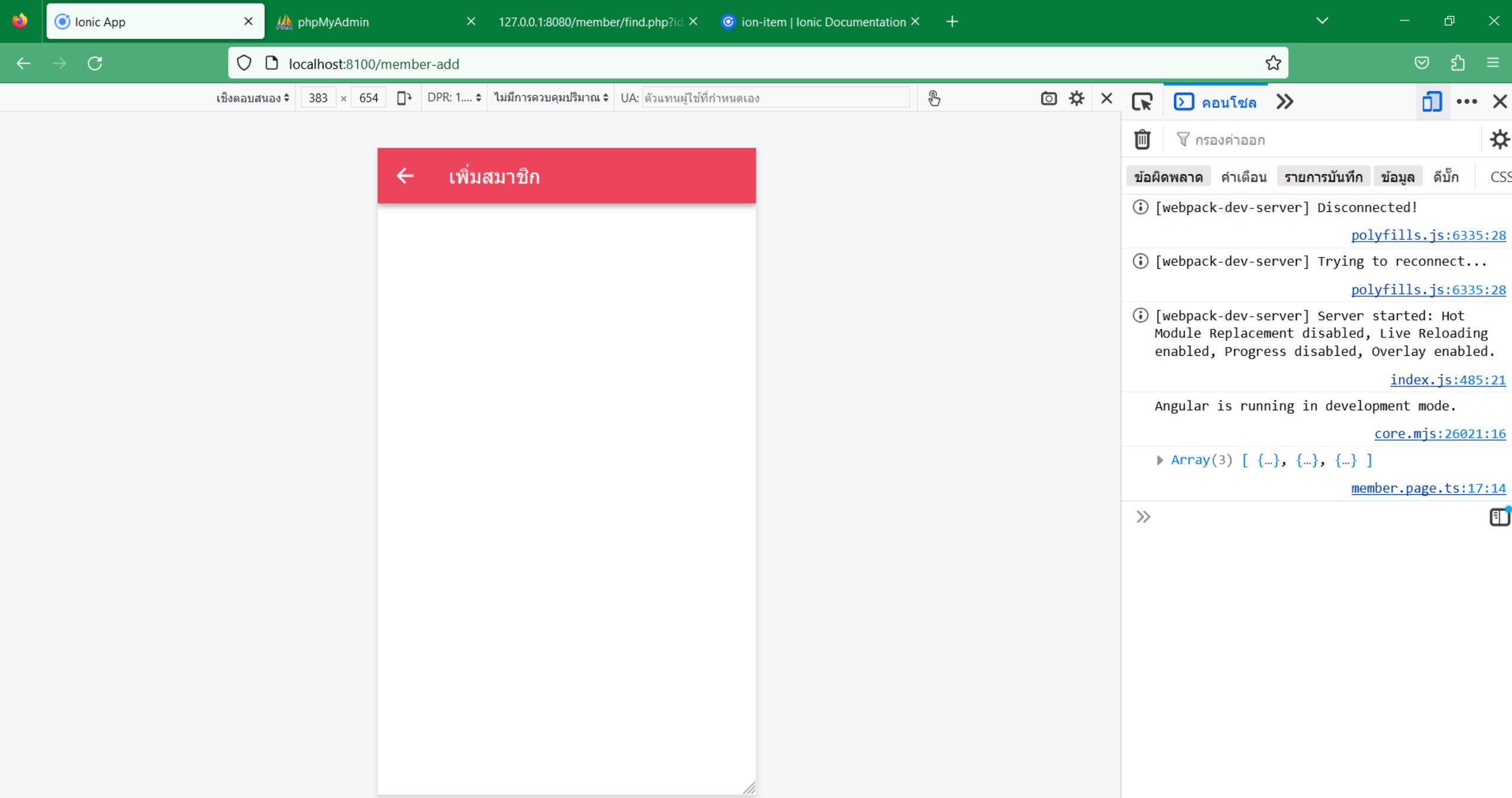


The screenshot shows a code editor window with the following details:

- Title Bar:** myapp
- Sidebar Icons:** File, Search, Recent (124), Help.
- File List:** member-add.page.html
- Code Content:** member-add.page.html

```
1 <ion-header [translucent]="true">
2   <ion-toolbar color="danger" mode="md">
3     <ion-buttons slot="start">
4       <ion-back-button></ion-back-button>
5     </ion-buttons>
6     <ion-title>เพิ่มสมาชิก</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content [fullscreen]="true" class="ion-padding">
11   <form novalidate #member="ngForm">
12
13   </form>
14 </ion-content>
15
```

The code is written in Ionic framework HTML. It defines an ion-header with a translucent toolbar containing a back button and a title "เพิ่มสมาชิก". The main content area is defined by an ion-content element with fullscreen="true" and ion-padding. Inside the ion-content, there is a form with the id "member" and attribute novalidate.





ionic DOCS

▼ Icons

ion-icon

▼ Input

ion-input

ion-textarea

▼ Item

ion-item

ion-input

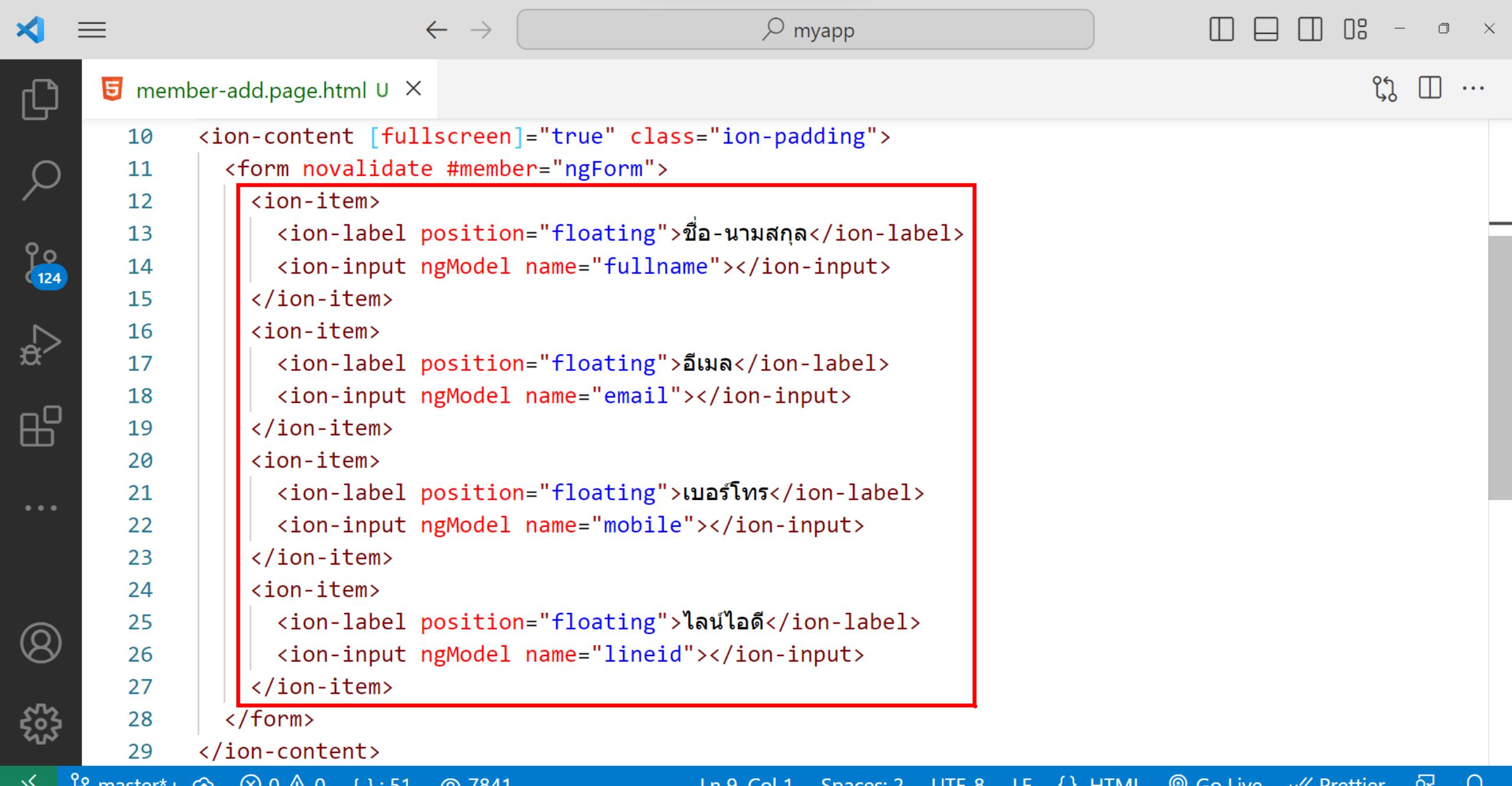
The input component is a wrapper to the HTML styling and additional functionality. It accepts n

```
<!-- Inputs with labels -->
<ion-item>
  <ion-label>Default Label</ion-label>
  <ion-input></ion-input>
</ion-item>

<ion-item>
  <ion-label position="floating">Floating Label</ion-label>
  <ion-input></ion-input>
</ion-item>

<ion-item>
  <ion-label position="fixed">Fixed Label</ion-label>
  <ion-input></ion-input>
</ion-item>

<ion-item>
  <ion-label position="stacked">Stacked Label</ion-label>
  <ion-input></ion-input>
</ion-item>
```





ionic DOCS

▼ Icons

[ion-icon](#) ↗

▼ Input

[ion-input](#)

[ion-textarea](#)

▼ Item

[ion-item](#)

Guide

Components

CLI

Native

Ionic v7.0.0 Upgrade Guide ↗

ion-textarea

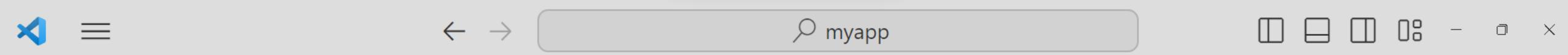
The [textarea component](#) is used for multi-line text input. The `ion-textarea` element is rendered inside of the component.

```
<!-- Textarea in an item with a placeholder -->
<ion-item>
  <ion-textarea placeholder="Enter more information here..."></ion-textarea>
</ion-item>

<!-- Textarea in an item with a floating label -->
<ion-item>
  <ion-label position="floating">Description</ion-label>
  <ion-textarea></ion-textarea>
</ion-item>

<!-- Disabled and readonly textarea in an item with a stacked label -->
<ion-item>
  <ion-label position="stacked">Summary</ion-label>
  <ion-textarea disabled readonly value="Ionic enables developers to build performant, high-quality mobile apps using standard web technologies like HTML, CSS and JS."></ion-textarea>
</ion-item>

<!-- Textarea that clears the value on edit -->
<ion-item>
  <ion-label>Clears on edit</ion-label>
  <ion-textarea clearInput></ion-textarea>
</ion-item>
```



member-add.page.html U X

```
15 </ion-item>
16 <ion-item>
17   <ion-label position="floating">อีเมล</ion-label>
18   <ion-input ngModel name="email"></ion-input>
19 </ion-item>
20 <ion-item>
21   <ion-label position="floating">เบอร์โทรศัพท์</ion-label>
22   <ion-input ngModel name="mobile"></ion-input>
23 </ion-item>
24 <ion-item>
25   <ion-label position="floating">ไลน์ไอดี</ion-label>
26   <ion-input ngModel name="lineid"></ion-input>
27 </ion-item>
28 <ion-item>
29   <ion-label position="floating">เพิ่มเติม</ion-label>
30   <ion-textarea ngModel name="detail"></ion-textarea>
31 </ion-item>
32 </form>
33 </ion-content>
34
```



▼ Button

[ion-button](#)[ion-ripple-effect](#)

▼ Card

[ion-card](#)[ion-card-content](#)[ion-card-header](#)

ion-button

Buttons provide a **clickable element**, which can be placed anywhere that needs simple, standard button functionality.

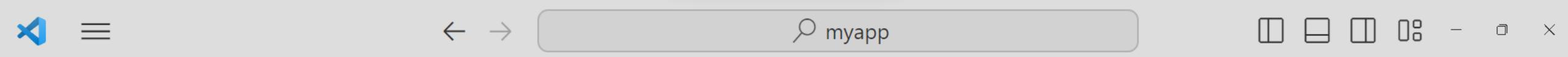


```
<ion-button color="success">Success</ion-button>
<ion-button color="warning">Warning</ion-button>
<ion-button color="danger">Danger</ion-button>
<ion-button color="light">Light</ion-button>
<ion-button color="medium">Medium</ion-button>
<ion-button color="dark">Dark</ion-button>

<!-- Expand -->
<ion-button expand="full">Full Button</ion-button>
<ion-button expand="block">Block Button</ion-button>

<!-- Round -->
<ion-button shape="round">Round Button</ion-button>

<!-- Fill -->
<ion-button expand="full" fill="outline">Outline + Full</ion-button>
<ion-button expand="block" fill="outline">Outline + Block</ion-button>
```



5 member-add.page.html U >

```
18     <ion-input ngModel name="email"></ion-input>
19   </ion-item>
20   <ion-item>
21     <ion-label position="floating">เบอร์โทรศัพท์</ion-label>
22     <ion-input ngModel name="mobile"></ion-input>
23   </ion-item>
24   <ion-item>
25     <ion-label position="floating">ไลน์ไอดี</ion-label>
26     <ion-input ngModel name="lineid"></ion-input>
27   </ion-item>
28   <ion-item>
29     <ion-label position="floating">เพิ่มเติม</ion-label>
30     <ion-textarea ngModel name="detail"></ion-textarea>
31   </ion-item>
32   <ion-button (click)="insert(member.value)" class="submit" expand="full">
33     <ion-icon class="save" name="save-outline"></ion-icon>&ampnbspบันทึกข้อมูล
34   </ion-button>
35 </form>
36 </ion-content>
37
```

X g master*+ ↗ ⊖ 0 ⚠ 0 {..}:51 ⏺ 7

Ln 16, Col 15 Spaces: 2 UTF-8 LF {} HTML G

✓ Prettier  

myapp

TS member-add.page.ts U X

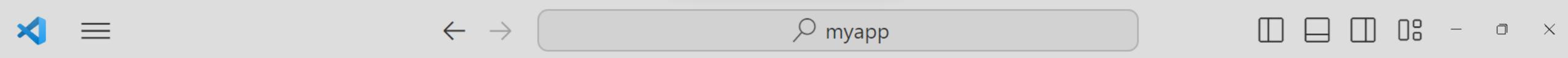
```
1 import { MemberService } from './services/member.service';
2 import { Component, OnInit } from '@angular/core';
3
4 export interface IMember {
5     fullname: string;
6     email: string;
7     mobile: string;
8     lineid: string;
9     detail: string;
10}
11
12 @Component({
13     selector: 'app-member-add',
14     templateUrl: './member-add.page.html',
15     styleUrls: ['./member-add.page.scss'],
16 })
17 export class MemberAddPage implements OnInit {
18
19     member: IMember = <IMember>{};
20 }
```

118

Ln 34, Col 1 Spaces: 2 UTF-8 LF {} TypeScript Go Live Prettier

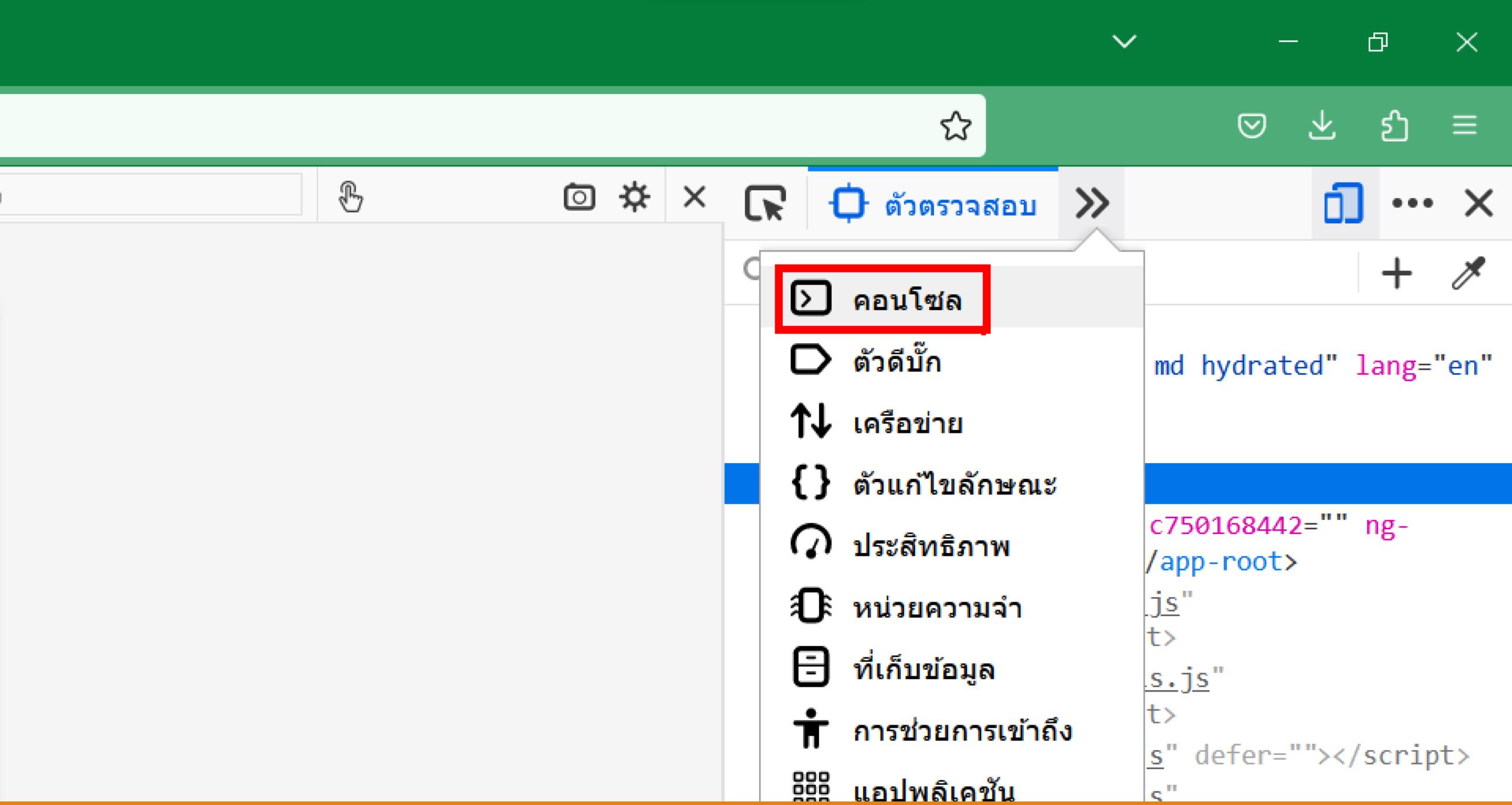
Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่ ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา

```
TS member-add.page.ts ×
17  export class MemberAddPage implements OnInit {
18
19    member: IMember = <IMember>{};
20
21    constructor(public service: MemberService) { }
22
23    insert(member: any){
24      console.log(member)
25      this.service.insert(member).subscribe(() => {
26        console.log('Post created successfully!');
27      })
28    }
29
30    ngOnInit() {
31    }
32
33  }
34
```



member-add.page.scss

```
1 ion-button {  
2   font-size: 13pt;  
3   margin-top: 20px;  
4   height: 50px;  
5 }  
6  
7 ion-input {  
8   font-size: 13pt;  
9 }  
10
```



← เพิ่มสมาชิก

ชื่อ-นามสกุล

อีเมล

เบอร์โทร

ไลน์ไอดี

เพิ่มเติม

บันทึกข้อมูล

ข้อผิดพลาด คำเตือน (10) รายการบันทึก ข้อมูล ตีบัก

● [webpack-dev-server] Disconnected! [polyfills.js:6335:28](#)

● [webpack-dev-server] Trying to reconnect... [polyfills.js:6335:28](#)

● [webpack-dev-server] Server started: Hot Module Replacement disabled, Live Reloading enabled, Progress disabled, Overlay enabled. [index.js:485:21](#)

Angular is running in development mode. [core.mjs:26021:16](#)

▶ Array(3) [..., ..., ...] [member.page.ts:17:14](#)



← → C



127.0.0.1/phpMyAdmin/index.php?token=af4eb913159e2f2e234d6bb9ba

phpMyAdmin



Recent Favorites

Type to filter these, Enter to search all



1 ▾

> >>



New

+ #mysql50#-tslabv61

+ #mysql50#-tslabv62

+ #mysql50#-tslabv63

+ #mysql50#-tslabv64

+ #mysql50#Copy of pisanwit

+ #mysql50#final2_58



Server: localhost

Databases

SQL

Status

User accounts

Export

General settings

Change password

Server connection collation ? : utf8mb4_unicode_ci



Appearance settings

Language ? : English



Theme: pmahomme



← → C



127.0.0.1/phpMyAdmin/server_databases.php?server=1&token=af4eb913

phpMyAdmin



Recent Favorites

Type to filter these, Enter to search all



1 ▾

> >>

- New
- #mysql50#-tslabv61
- #mysql50#-tslabv62
- #mysql50#-tslabv63
- #mysql50#-tslabv64
- #mysql50#Copy of pisanwit
- #mysql50#final2_58

Databases

Create database

mobile166

utf8_general_ci

Create

Page number: 1 ▾ > >>

Database	Collation	Action
#mysql50#-tslabv61	utf8_general_ci	

X



127.0.0.1 / localhost / mobile166 X

+



127.0.0.1/phpMyAdmin/db_structure.php?db=mobile166&token=af4eb913159e2f2e234d6bb9bad2ff2



Server: localhost » Database: mobile166



Structure



SQL



Search



Query



Export



Import



Operations



Pr



No tables found in database.



Create table

Name: member

Number of columns:

6



anwit



Operations

Privileges

Routines

Events

Triggers

Designer

Go



127.0.0.1 / localhost / mobile166 X +

127.0.0.1/phpMyAdmin/db_structure.php?db=mobile166&token=4df20e39c96a378f08434b3471b0bd11 133% ⭐

Server: localhost » Database: mobile166 » Table: member

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Table name: member

1

Name	Type	Length/Values
mem_id	INT	5
mem_fullname	VARCHAR	30
mem_email	VARCHAR	30
mem_mobile	VARCHAR	20
mem_lineid	VARCHAR	20
mem_detail	TEXT	

2

Null	Index	A_I	Comments
<input type="checkbox"/>	PRIMARY	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	---	<input type="checkbox"/>	
<input type="checkbox"/>	---	<input type="checkbox"/>	
<input type="checkbox"/>	---	<input type="checkbox"/>	
<input type="checkbox"/>	---	<input type="checkbox"/>	
<input type="checkbox"/>	---	<input type="checkbox"/>	
<input type="checkbox"/>	---	<input type="checkbox"/>	

3

Add index

Index name: PRIMARY
Index choice: PRIMARY

+ Options

Column	Size
mem_id [int]	

Go Cancel

Table comments:

Collation:

Storage Engine: InnoDB

PARTITION definition: Console

Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่

ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา

Ionic App

127.0.0.1 / localhost / mobile166

Server: localhost » Database: mobile166 » Table: member

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Table name: member Add 1 column(s) Go

mem_lineid VARCHAR 20 None

mem_detail TEXT None

Table comments: Collation: Storage Engine: InnoDB

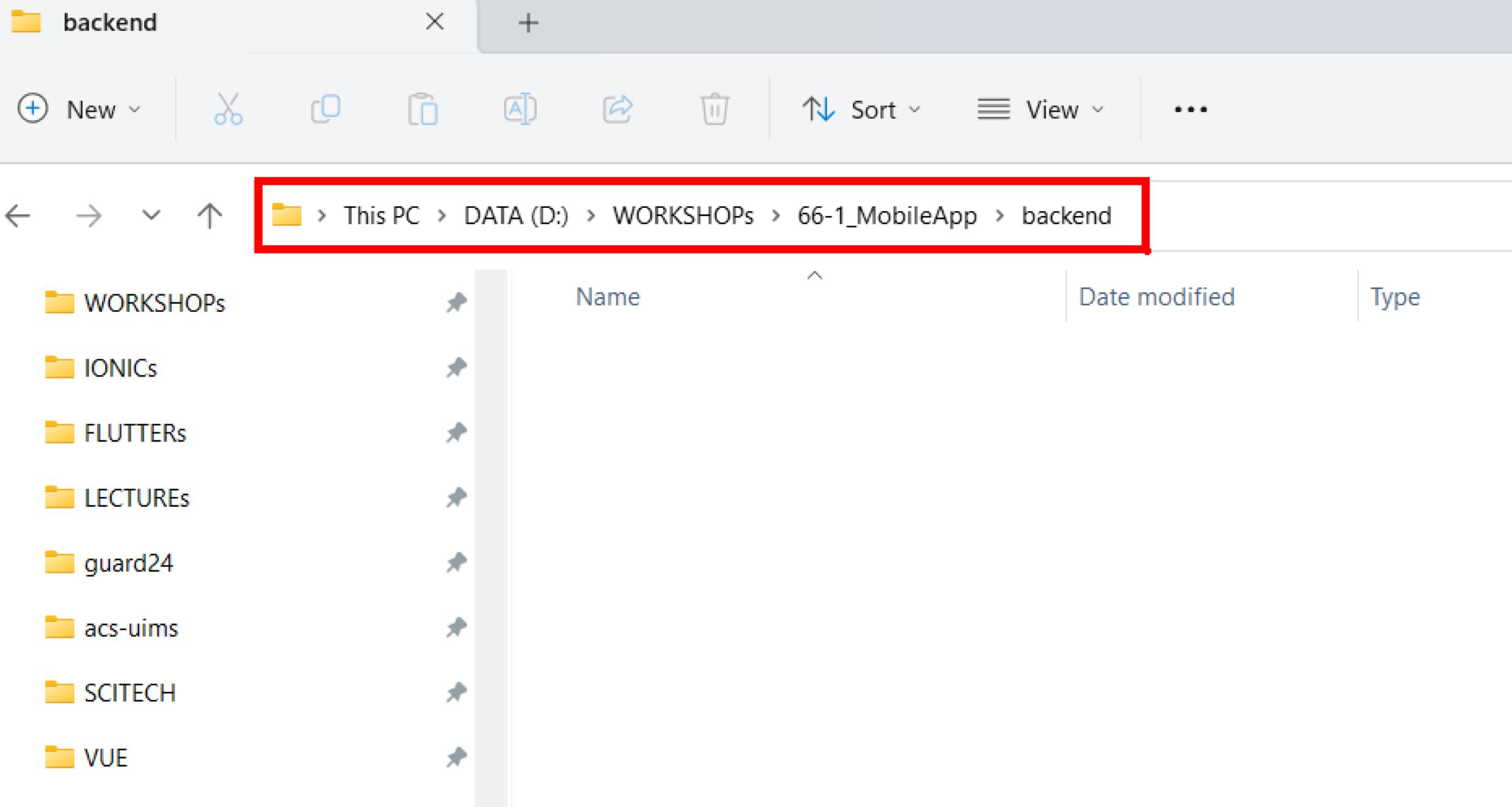
PARTITION definition:

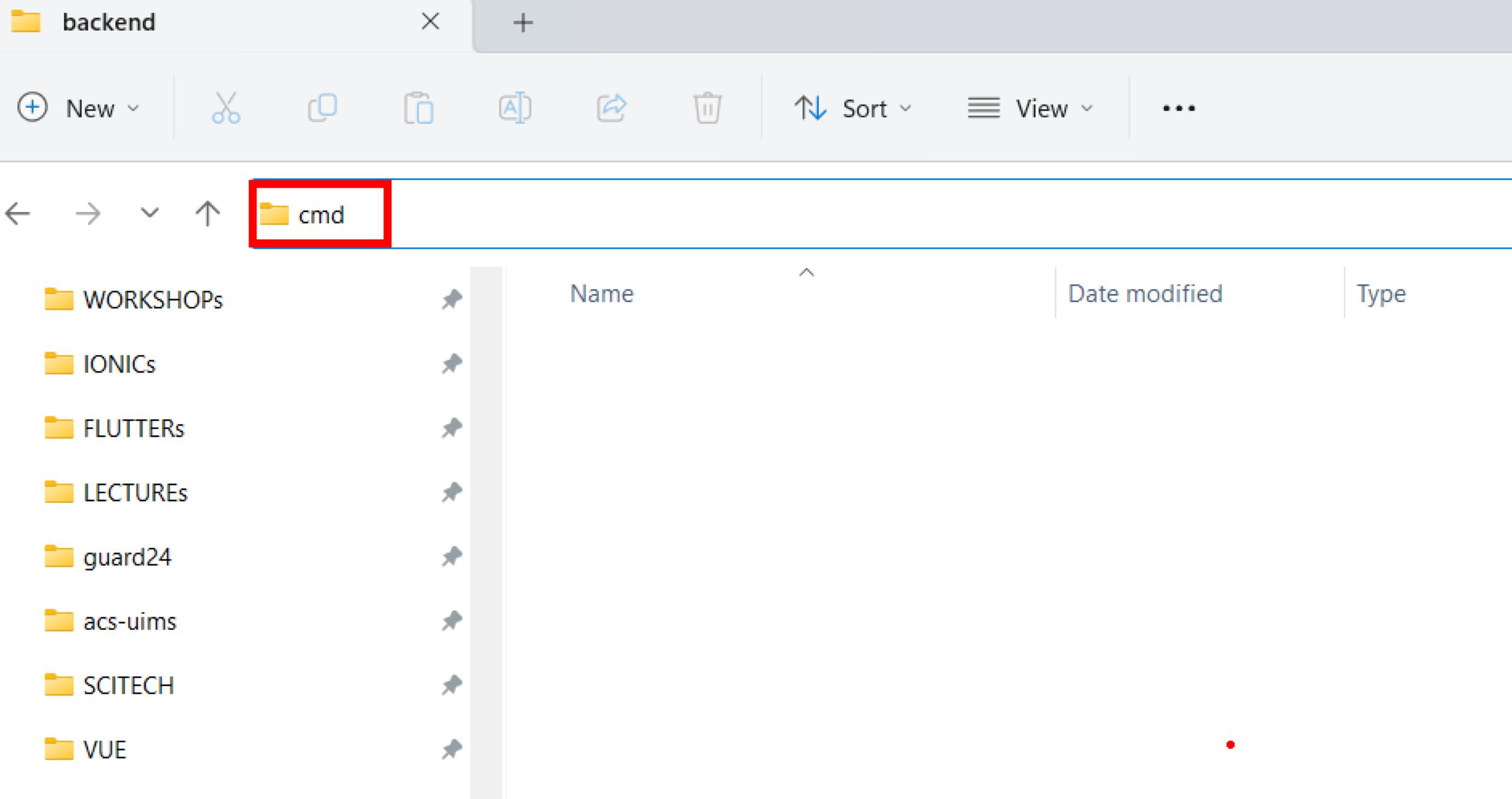
Partition by: (Expression or column list)

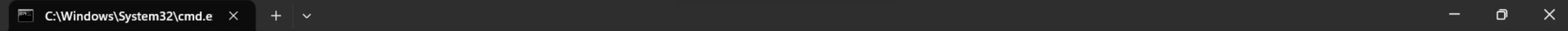
Partitions:

Preview SQL Save

Console





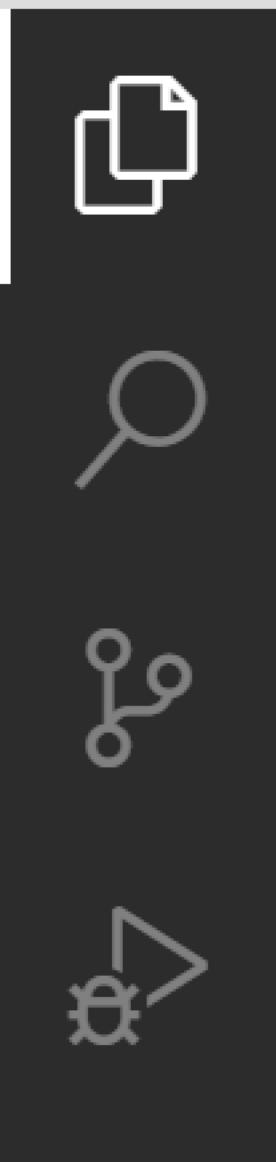


Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

D:\WORKSHOPS\66-1_MobileApp\backend>code .

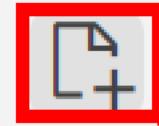


← →

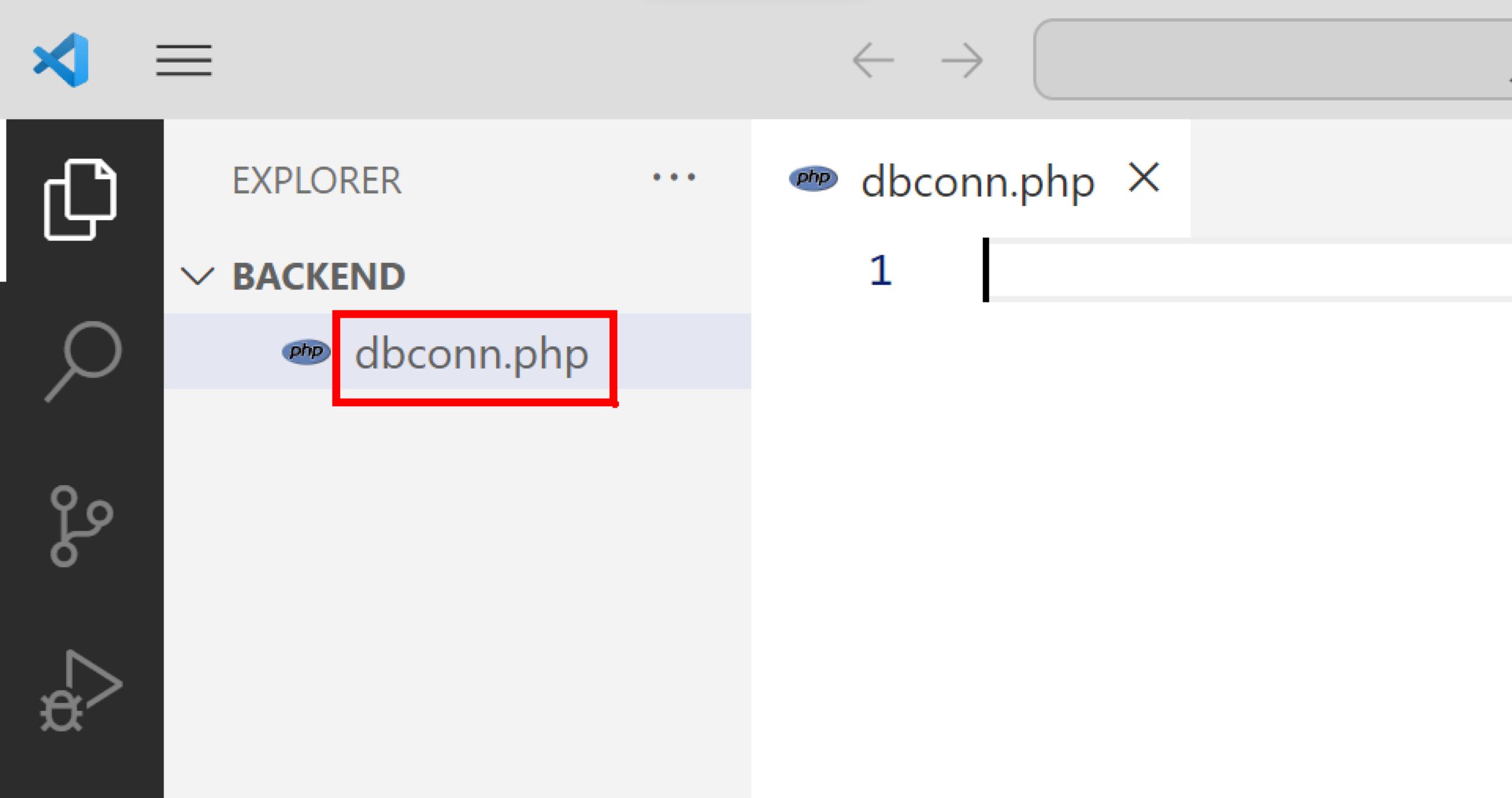


EXPLORER

BACKEND



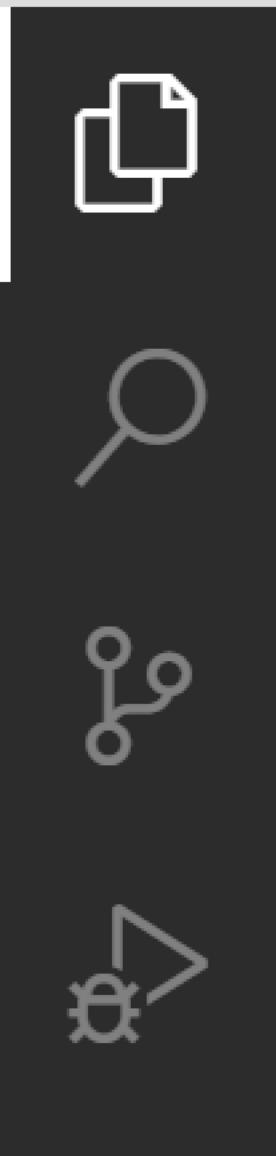
...



The screenshot shows a Microsoft Visual Studio Code interface. The left sidebar has icons for Explorer, Search, Problems, and Timeline. The Explorer section shows a project folder named 'BACKEND' containing a file 'dbconn.php'. The main editor area displays the following PHP code:

```
1 <?php
2 $host_name = "localhost";
3 $user_name = "root";
4 $pass_word = "root";
5 $db_name = "mobile166";
6
7 $conn = new mysqli($host_name, $user_name, $pass_word, $db_name);
8 mysqli_set_charset($conn, "utf8");
9
10 if ($conn->connect_error) {
11     die("Connection failed: " . $conn->connect_error);
12 }
13
14 date_default_timezone_set("Asia/Bangkok");
15
```

The status bar at the bottom shows the following information: Screen Reader Optimized, Ln 15, Col 1, Spaces: 2, UTF-8, CRLF, PHP, Go Live, Prettier, and a few other icons.



EXPLORER

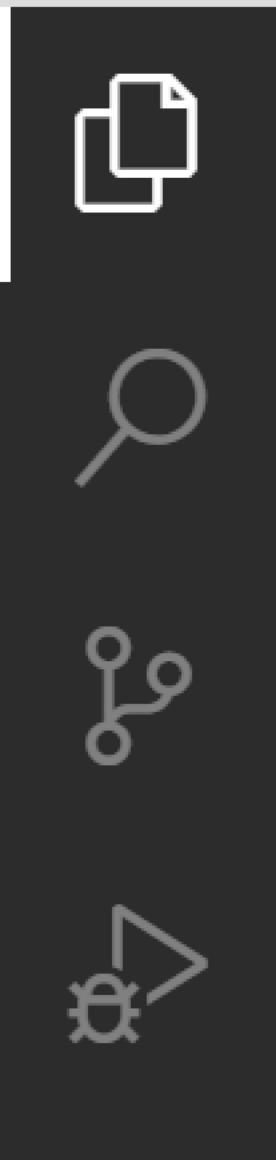
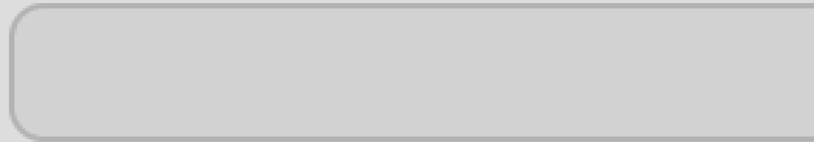
BACKEND



...



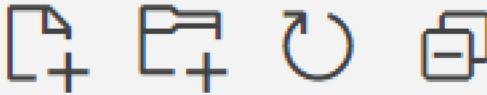
dbconn.php



EXPLORER

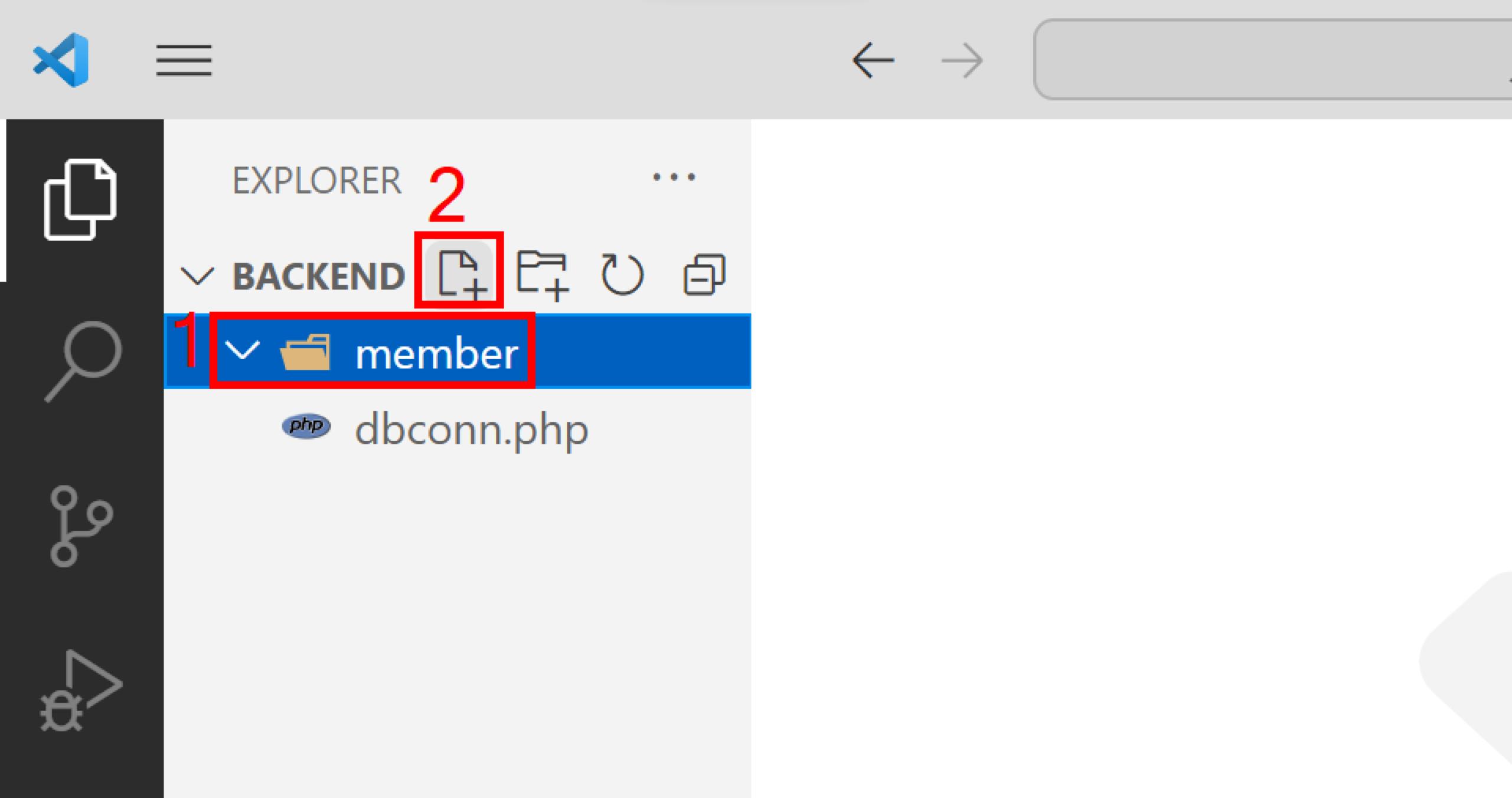
...

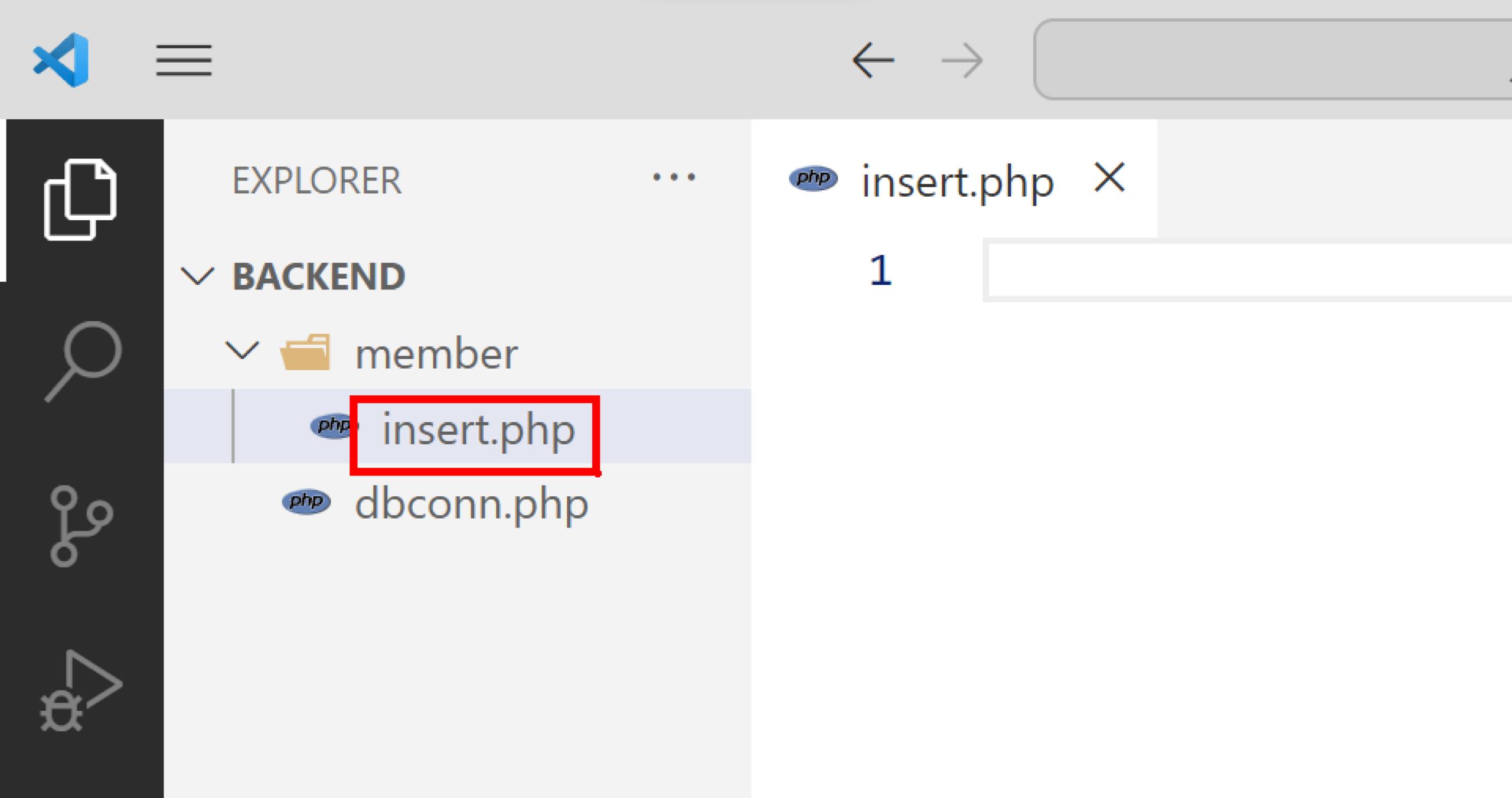
BACKEND

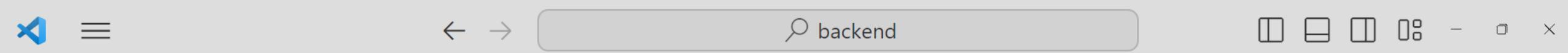


> **member**

php dbconn.php

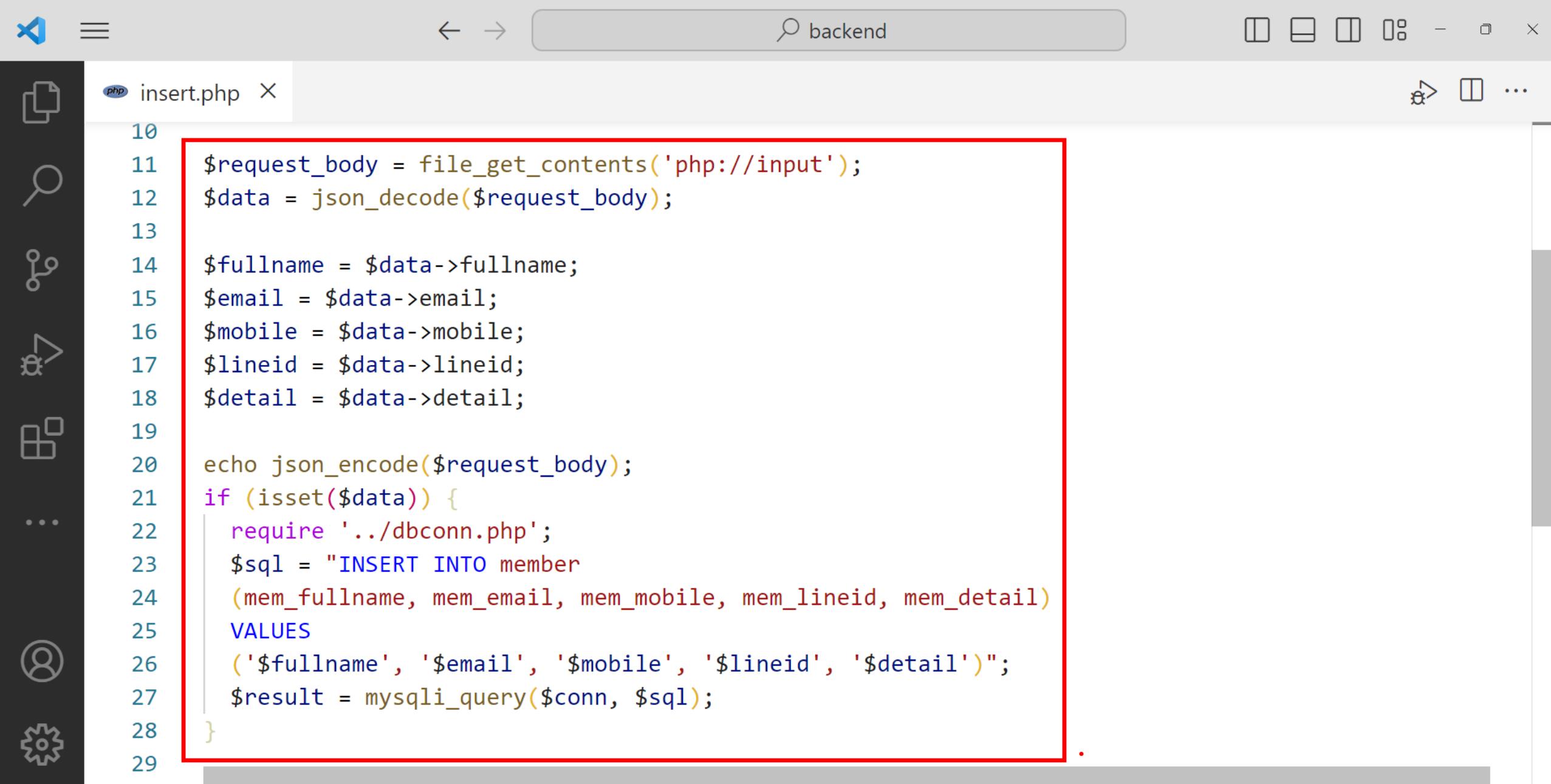






```
insert.php X
1 <?php
2 header("Access-Control-Allow-Origin: *");
3 header('Access-Control-Allow-Credentials: true');
4 header('Access-Control-Allow-Methods: GET, POST, PATCH, PUT, DELETE, OPTIONS');
5 header('Content-Type: application/json');
6 header('Access-Control-Allow-Headers: Access-Control-Allow-Headers');
7 header('Access-Control-Allow-Headers: Content-Type,Access-Control-Allow-Methods, Authorization');
8 header('Access-Control-Allow-Headers: X-Requested-With');
9 header('Access-Control-Max-Age: 86400');
10
11
12
13
14
15
16
17
18
19
20
```

Screen Reader Optimized Ln 26, Col 1 Spaces: 2 UTF-8 LF PHP ⚡ Go Live ⚡ Prettier ⚡ 🔍 🔔



The screenshot shows a Microsoft Edge browser window with a tab titled "insert.php". The page content is a PHP script for inserting data into a MySQL database. The code is highlighted with a red border.

```
10
11 $request_body = file_get_contents('php://input');
12 $data = json_decode($request_body);
13
14 $fullname = $data->fullname;
15 $email = $data->email;
16 $mobile = $data->mobile;
17 $lineid = $data->lineid;
18 $detail = $data->detail;
19
20 echo json_encode($request_body);
21 if (isset($data)) {
22     require '../dbconn.php';
23     $sql = "INSERT INTO member
24         (mem_fullname, mem_email, mem_mobile, mem_lineid, mem_detail)
25     VALUES
26         ('$fullname', '$email', '$mobile', '$lineid', '$detail')";
27     $result = mysqli_query($conn, $sql);
28 }
29
```

�� 0 ⚠ 0

Screen Reader Optimized

Ln 1, Col 6

Spaces: 2

UTF-8

LF

PHP

Go Live

Prettier





backend

```
insert.php X
```

```
11 $data = json_decode($request_body);
12
13 $fullname = $data->fullname;
14 $email = $data->email;
15 $mobile = $data->mobile;
16 $lineid = $data->lineid;
17 $detail = $data->detail;
18
19 echo json_encode($request_body);
20
21 if (isset($data)) {
22     require '../dbconn.php';
23     $sql = "INSERT INTO member
24         (mem_fullname, mem_email, mem_mobile, mem_lineid, mem_detail)
25     VALUES
26         ('$fullname', '$email', '$mobile', '$lineid', '$detail')";
27     $result = mysqli_query($conn, $sql);
28 }
29
```

✖ 0 ⚠ 0

Screen Reader Optimized

Ln 29, Col 1

Spaces: 2

UTF-8

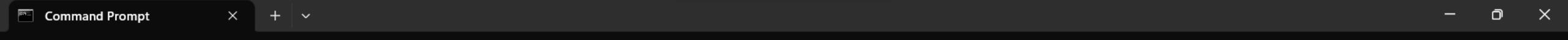
CRLF

PHP

Go Live

Prettier





```
C:\Users\UNSCT>php -S 127.0.0.1:8080 -t D:/WORKSH0Ps/66-1_MobileApp/backend
```

```
C:\Users\UNSCT>php -S 127.0.0.1:8080 -t D:/WORKSHOPS/66-1_MobileApp/backend
PHP 5.6.26 Development Server started at Wed Aug 30 11:09:17 2023
Listening on http://127.0.0.1:8080
Document root is D:\WORKSHOPS\66-1_MobileApp\backend
Press Ctrl-C to quit.
```



127.0.0.1/phpMyAdmin/sql.php?db=mobile166&token=81fb84d5b48f344732a7e6098241aca9&goto=db_structure.php&table=member&pos=133%



Server: localhost » Database: mobile166 » Table: member



Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0008 seconds.)

SELECT * FROM `member`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

mem_id mem_fullname mem_email mem_mobile mem_lineid mem_detail

Query results operations

Create view



Console

Firefox 127.0.0.1 / localhost / mobile16 X 127.0.0.1:8080/member/find.php?id X ion-item | Ionic Documentation X +

← → C localhost:8100/member-add ☆

เข้าสู่ระบบ X 383 X 654 X DPR: 1... ไม่มีการควบคุมเบราว์เซอร์ X UA: ตัวแทนผู้ใช้ที่กำหนดเอง

← เพิ่มสมาชิก

ชื่อ-นามสกุล
สุรศิทธิ์ ศักดา

อีเมล
surasit.s@rmutsv.ac.th

เบอร์โทรศัพท์
0817194220

ไลน์ไอดี
amigozei

เพิ่มเติม
Lecturer

บันทึกข้อมูล

ข้อผิดพลาด คำเตือน (5) รายการบันทึก ข้อมูล ดีบัก

ลบ กรองค่าออก

▼ Object { fullname: "สุรศิทธิ์ ศักดา", email: "surasit.s@rmutsv.ac.th", mobile: "0817194220", lineid: "amigozei", detail: "Lecturer" }
detail: "Lecturer"
email: "surasit.s@rmutsv.ac.th"
fullname: "สุรศิทธิ์ ศักดา"
lineid: "amigozei"
mobile: "0817194220"
► <prototype>: Object { ... }

member-add.page.ts:28:12 Post created successfully!

member-add.page.ts:30:14

บันทึกข้อมูล

127.0.0.1/phpMyAdmin/sql.php?db=mobile166&table=member&token=81fb84d5b48f344732a7e6098241aca9&pos=0 133%

Server: localhost » Database: mobile166 » Table: member

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 0 (1 total, Query took 0.0019 seconds.)

```
SELECT * FROM `member`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

mem_id	mem_fullname	mem_email	mem_mobile	mem_lineid	mem_detail
1	สุรศิทธิ์ ศักดา	surasit.s@rmutsv.ac.th	0817194220	amigozei	Lecturer

Edit Copy Delete

Check all With selected: Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table

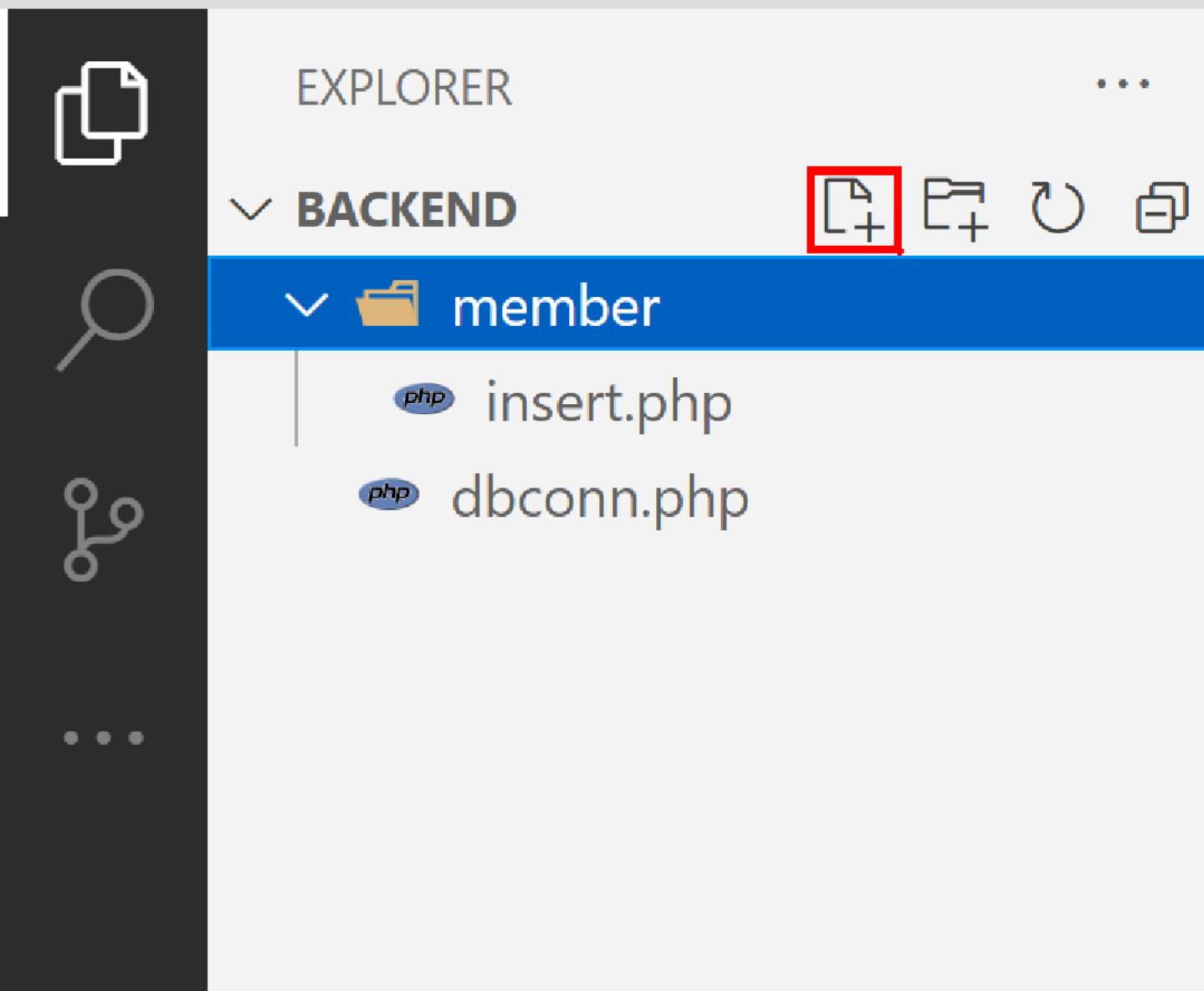
Query results operations

Print Copy to clipboard Export Display chart Create view

Console



backend





backend

EXPLORER

...

BACKEND

member

insert.php

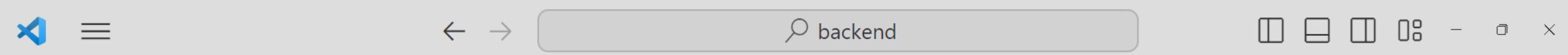
read.php

dbconn.php

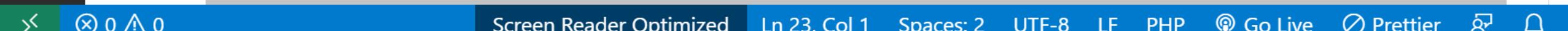
read.php

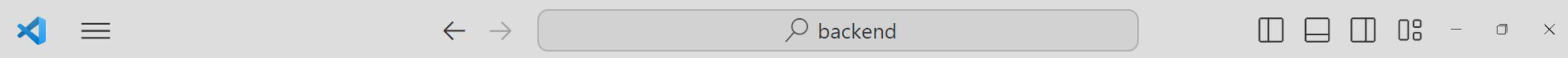
1

The screenshot shows the Visual Studio Code interface. On the left is the Explorer sidebar with a tree view of files. The 'BACKEND' folder is expanded, showing a 'member' folder containing 'insert.php' and 'read.php', and a 'dbconn.php' file. The 'read.php' file under 'member' is highlighted with a red border. The main workspace on the right displays the content of the 'read.php' file, which starts with the number '1'. The status bar at the bottom indicates the file is a PHP file.



```
1 <?php
2 header("Access-Control-Allow-Origin: *");
3 header('Access-Control-Allow-Credentials: true');
4 header('Access-Control-Allow-Methods: GET, POST, PATCH, PUT, DELETE, OPTIONS');
5 header('Content-Type: application/json');
6 header('Access-Control-Allow-Headers: Access-Control-Allow-Headers');
7 header('Access-Control-Allow-Headers: Content-Type,Access-Control-Allow-Methods, Authorization');
8 header('Access-Control-Allow-Headers: X-Requested-With');
9 header('Access-Control-Max-Age: 86400');
10
11
12
13
14
15
16
17
18
19
20
```





read.php X

```
8 header('Access-Control-Allow-Headers: X-Requested-With');
9 header('Access-Control-Max-Age: 86400');

10
11 require '../dbconn.php';
12 $sql = "SELECT * FROM member";
13 $result = mysqli_query($conn, $sql);

14
15 $data = array();
16 while ($row = mysqli_fetch_array($result)) {
17     $data[] = $row;
18 }

19
20 echo json_encode($data);
21
```





TS member-add.page.ts U X

```
1 import { MemberService } from './services/member.service';
2 import { Component, OnInit } from '@angular/core';
3 import { Router } from '@angular/router';
4
5 export interface IMember {
6   fullname: string;
7   email: string;
8   mobile: string;
9   lineid: string;
10  detail: string;
11 }
12
13 @Component({
14   selector: 'app-member-add',
15   templateUrl: './member-add.page.html',
16   styleUrls: ['./member-add.page.scss'],

```



TS member-add.page.ts U X

```
18 export class MemberAddPage implements OnInit {  
19  
20     member: IMember = <IMember>{};  
21  
22     constructor(  
23         public service: MemberService,  
24         private router: Router  
25     ) { }  
26  
27     insert(member: any){  
28         console.log(member)  
29         this.service.insert(member).subscribe(() => {  
30             // console.log('Post created successfully!');  
31             this.router.navigateByUrl('member')  
32         })  
33     }  
}
```



myapp

```
1 import { Injectable } from '@angular/core';
2 import { HttpClient } from '@angular/common/http';
3
4 @Injectable({
5   providedIn: 'root'
6 })
7 export class MemberService {
8   private apiURL = "http://127.0.0.1:8080/member/";
9
10 constructor(private httpClient: HttpClient) { }
11
12 insert(data: any) {
13   return this.httpClient.post(this.apiURL + 'insert.php', JSON.stringify(data))
14 }
15
16 read() {
17   return this.httpClient.get(this.apiURL + 'read.php')
18 }
19
20 }
```

136

master*+ 57 7853

Ln 22, Col 1 Spaces: 2 UTF-8 LF {} TypeScript Go Live Prettier

Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่

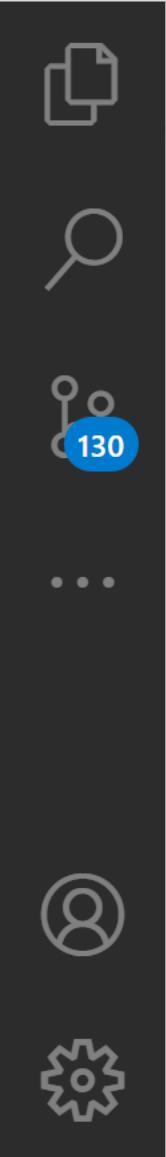
ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา



TS member.page.ts U X

```
1 import { Component, OnInit } from '@angular/core';
2 import { MemberService } from './../../../services/member.service';
3
4 @Component({
5   selector: 'app-member',
6   templateUrl: './member.page.html',
7   styleUrls: ['./member.page.scss'],
8 })
9 export class MemberPage implements OnInit {
10
11   constructor(public service: MemberService) { }
12
13   ngOnInit() {
14   }
15
16 }
```

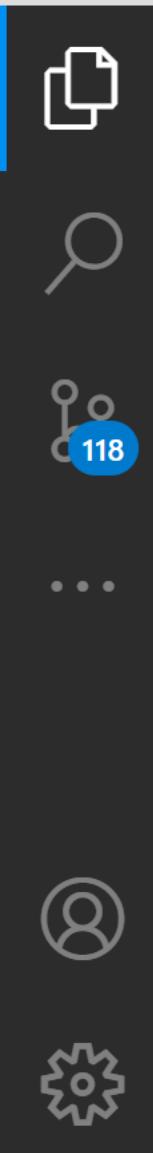
master*+ ⏵ ⏵ 0 △ 0 {..}:47 ⏴ 7841 UTF-8 LF {} TypeScript Go Live Prettier



TS member.page.ts U X

✖️ ⏪ ⏴ ⏵ ⋮

```
9  export class MemberPage implements OnInit {  
10  
11    members: any;  
12    constructor(public service: MemberService) { }  
13  
14    ngOnInit(): void {  
15      this.service.read().subscribe(data) => {  
16        this.members = data;  
17        console.log(this.members)  
18      })  
19    }  
20  
21    ionViewDidEnter() {  
22      this.ngOnInit()  
23    }  
24
```



5 member.page.html U X

```
6
7 <ion-content [fullscreen]="true">
8   <div style="height:20px;"></div>
9   <ion-item detail>
10  <ion-label>ข้อมูลสมาชิกคนที่ 1</ion-label>
11 </ion-item>
12 <ion-item detail>
13  <ion-label>ข้อมูลสมาชิกคนที่ 2</ion-label>
14 </ion-item>
15 <ion-item detail>
16  <ion-label>ข้อมูลสมาชิกคนที่ 3</ion-label>
17 </ion-item>
18 </ion-content>
19
20 <ion-fab vertical="top" horizontal="end" slot="fixed">
21   <ion-fab-button routerLink="/member-add">
```



master*+ ⏪ ⏴ 0 ⚠ 0 {..}:47 ⏴ 7841 Spaces: 2 UTF-8 LF {} HTML ⏴ Go Live ✓ Prettier ⏴ ⏴

The screenshot shows a code editor window in Visual Studio Code. The title bar displays "myapp". The left sidebar has icons for file, search, and other development tools, with a notification badge "124" on the search icon. The main editor area shows the file "member.page.html". The code uses Angular and Ionic components. A red box highlights the following section of code:

```
6
7  <ion-content [fullscreen]="true">
8    <div style="height:20px;"></div>
9    <ion-item detail *ngFor="let member of members"
10      [routerLink]=["/member-detail/", member.mem_id]>
11        <ion-label>{{ member.mem_fullname }}</ion-label>
12    </ion-item>
13  </ion-content>
14
15  <ion-fab vertical="top" horizontal="end" slot="fixed">
16    <ion-fab-button routerLink="/member-add">
17      <ion-icon name="add"></ion-icon>
18    </ion-fab-button>
19  </ion-fab>
20
21
```

The screenshot shows a mobile application running in a browser window. The title bar indicates it's an Ionic App at 127.0.0.1 / localhost / mobile16. The main content is titled "สมาชิก" (Member) and displays a list of three items: "สุรศิทธิ์ ศักดา", "วีระพงษ์ จันมณี", and "ปันธุตา เมืองเพชร". A red box highlights the first item. A blue circular button with a plus sign is located in the top right corner of the list area. The developer tools sidebar on the right shows logs from the webpack-dev-server and core.js, and a expanded array object containing three members with their names and email addresses.

```
Array(3) [ {0: "1", 1: "สุรศิทธิ์ ศักดา", 2: "surasit.s@rmutsv.ac.th"}, {0: "2", 1: "วีระพงษ์ จันมณี", 2: "weerapong.j@gmail.com"}, {0: "3", 1: "ปันธุตา เมืองเพชร", 2: "panatta.m@gmail.com"} ]
```



backend

EXPLORER

...

BACKEND

...

member

insert.php

read.php

dbconn.php

File +

Folder +

...

...



backend

EXPLORER

...

BACKEND

member

find.php

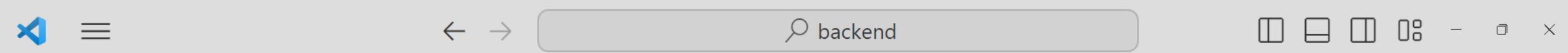
insert.php

read.php

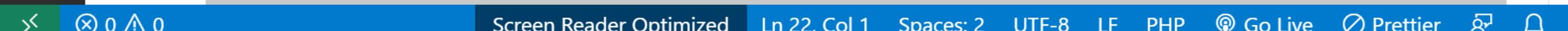
dbconn.php

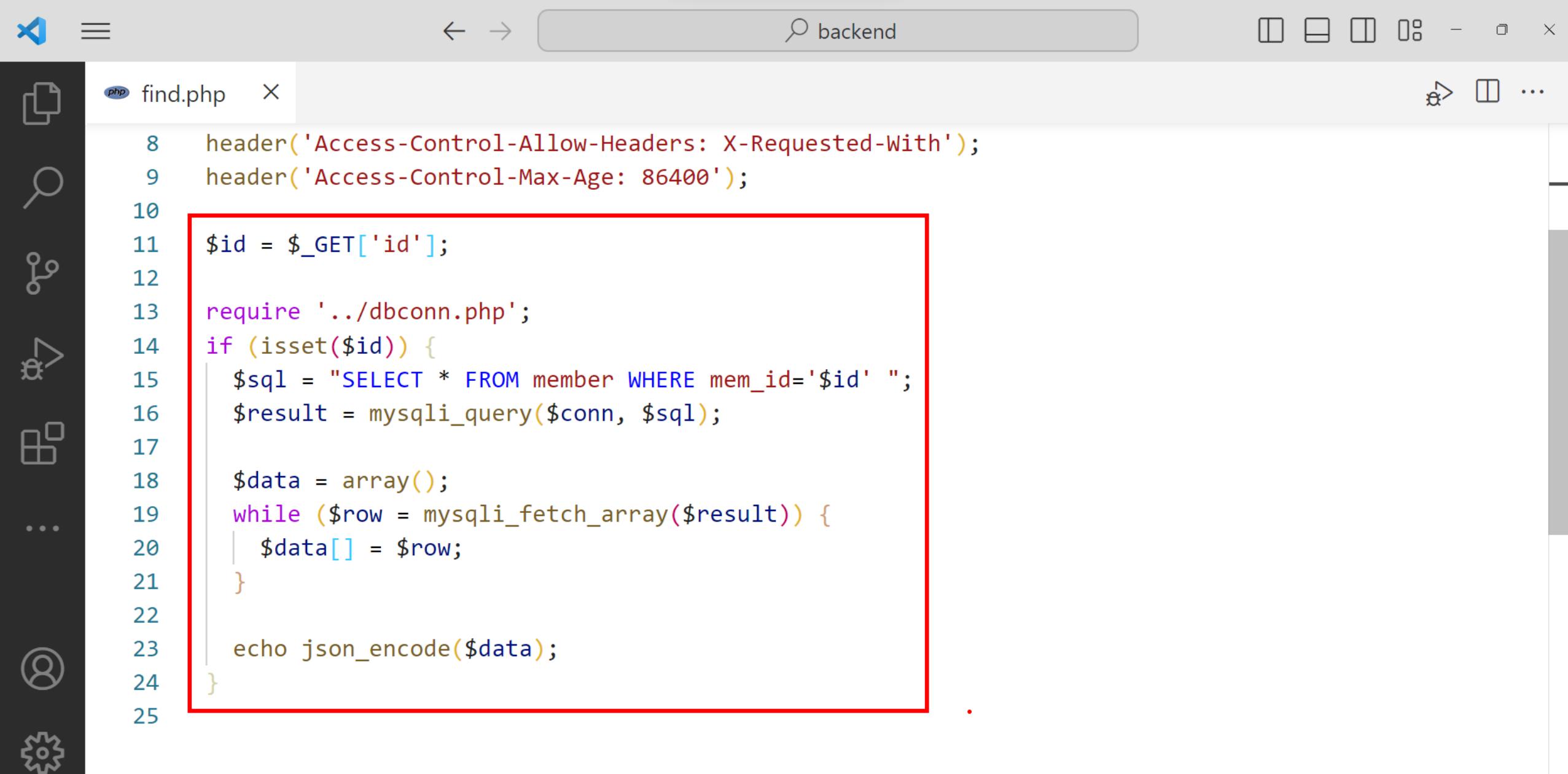
php find.php

1



```
1 <?php
2 header("Access-Control-Allow-Origin: *");
3 header('Access-Control-Allow-Credentials: true');
4 header('Access-Control-Allow-Methods: GET, POST, PATCH, PUT, DELETE, OPTIONS');
5 header('Content-Type: application/json');
6 header('Access-Control-Allow-Headers: Access-Control-Allow-Headers');
7 header('Access-Control-Allow-Headers: Content-Type,Access-Control-Allow-Methods, Authorization');
8 header('Access-Control-Allow-Headers: X-Requested-With');
9 header('Access-Control-Max-Age: 86400');
10
11
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17
18
19
20
```





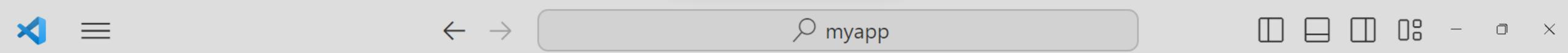
```
8 header('Access-Control-Allow-Headers: X-Requested-With');
9 header('Access-Control-Max-Age: 86400');

10
11 $id = $_GET['id'];

12
13 require '../dbconn.php';
14 if (isset($id)) {
15     $sql = "SELECT * FROM member WHERE mem_id='$id' ";
16     $result = mysqli_query($conn, $sql);

17
18     $data = array();
19     while ($row = mysqli_fetch_array($result)) {
20         $data[] = $row;
21     }

22
23     echo json_encode($data);
24 }
25
```



TS member.service.ts U X

```
5 |     providedIn: 'root'
6 | }
7 | export class MemberService {
8 |     private apiURL = "http://127.0.0.1:8080/member/";
9 |
10| constructor(private httpClient: HttpClient) { }
11|
12| insert(data: any) {
13|     return this.httpClient.post(this.apiURL + 'insert.php', JSON.stringify(data))
14| }
15|
16| read() {
17|     return this.httpClient.get(this.apiURL + 'read.php')
18| }
19|
20| find(id: number) {
21|     return this.httpClient.get(this.apiURL + 'find.php?id=' + id)
22| }
23|
24| }
```

�� master*+ 🕒 0 ⚡ 0 {..} : 57 ⏴ 7853 Ln 26, Col 1 Spaces: 2 UTF-8 LF .{} TypeScript ⏹ Go Live ✅ Prettier ⏷ 🔔



File Edit Selection View Go Run Terminal Help

← →

New Terminal

Ctrl+Shift+`

Split Terminal

Ctrl+Shift+5

Run Task...

Run Build Task...

Ctrl+Shift+B

Run Active File

Run Selected Text

Show Running Tasks...

Restart Running Task...

Terminate Task...

Configure Tasks...

Configure Default Build Task...





PROBLEMS

OUTPUT

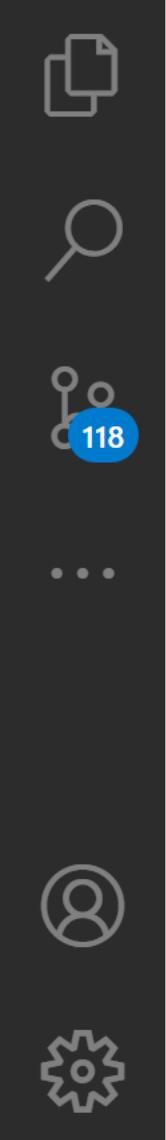
TERMINAL

DEBUG CONSOLE

powershell



```
PS D:\WORKSHOPS\66-1_MobileApp\refer\myapp> ionic g page memberDetail
```



master*+ ↗ 0 ⚠ 0 {..}:47 ⏴ 7841

Screen Reader Optimized

Go Live





TS app-routing.module.ts M X

```
25  {
26    path: 'member-add',
27    loadChildren: () => import('./member-add/member-add.module').then( m => m.MemberAddModule)
28  },
29  {
30    path: 'member-detail/:id',
31    loadChildren: () => import('./member-detail/member-detail.module').then( m => m.MemberDetailModule)
32  }
33];
34 @NgModule({
35   imports: [
36     RouterModule.forRoot(routes, { preloadingStrategy: PreloadAllModules })
37   ],
38   exports: [RouterModule]
39 })
40 export class AppRoutingModule {}
```





TS member-detail.page.ts U X

```
1 import { Component, OnInit } from '@angular/core';
2 import { MemberService } from './../../../services/member.service';
3 import { ActivatedRoute, Router } from '@angular/router';
4
5 @Component({
6   selector: 'app-member-detail',
7   templateUrl: './member-detail.page.html',
8   styleUrls: ['./member-detail.page.scss'],
9 })
10 export class MemberDetailPage implements OnInit {
11
12   constructor(
13     public service: MemberService,
14     private route: ActivatedRoute,
15     private router: Router
16   ) { }
```

master*+ ⏵ ⏵ 0 △ 0 {..}: 57 ⏴ 7853 UTF-8 LF {} TypeScript Go Live Prettier



TS member-detail.page.ts U X

```
10  export class MemberDetailPage implements OnInit {  
11  
12    id!: number;  
13    fullname: any;  
14    email: any;  
15    mobile: any;  
16    lineid: any;  
17    detail: any;  
18  
19    constructor(  
20      public service: MemberService,  
21      private route: ActivatedRoute,  
22      private router: Router  
23    ) {}  
24  
25    ngOnInit(): void {
```



The screenshot shows a Microsoft Visual Studio Code interface with the following details:

- Title Bar:** myapp
- File Explorer (Left):** Shows icons for File, Search, Problems (130), and others.
- Code Editor (Main Area):** Displays a TypeScript file named `member-detail.page.ts`. The code defines a constructor and an `ngOnInit` method. The `ngOnInit` method uses the `ActivatedRoute` to get the member ID and then calls a `find` method on the `MemberService` to retrieve the member's full name, email, mobile number, LINE ID, and detail. The entire `ngOnInit` block is highlighted with a red rectangle.
- Bottom Status Bar:** Shows the file path as `master*+ ↗ 0 ⚠ 0 {..}: 57 ↘ 7853`, encoding as `UTF-8`, line separator as `LF`, file type as `{}`, language as `TypeScript`, and status icons for Go Live, Prettier, and others.



member-detail.page.html

```
1 <ion-header [translucent]="true">
2   ...
3 </ion-header>
4
5 <ion-content [fullscreen]="true" class="ion-padding">
6   <div style="height: 20px;"></div>
7
8 </ion-content>
```

▼ Toast

ion-toast

▼ Toggle

ion-toggle

▼ Toolbar

ion-toolbar

ion-header

ion-footer

ion-title

ion-toolbar

Toolbars are positioned above or below content

in an `<ion-header>` it will appear fixed at the top

it is in an `<ion-footer>` it will appear fixed at the bottom

content will scroll behind a toolbar in a header

Usage

Angular Javascript React Stencil Vue

Copy

```
<ion-toolbar>
  <ion-title>Title Only</ion-title>
</ion-toolbar>

<ion-toolbar>
  <ion-buttons slot="start">
    <ion-back-button></ion-back-button>
  </ion-buttons>
  <ion-title>Back Button</ion-title>
</ion-toolbar>
```

```
<ion-toolbar>
  <ion-title size="small">Small Title above a Default Title</ion-title>
</ion-toolbar>
```

The screenshot shows a Microsoft Edge browser window with the address bar containing 'myapp'. The main content area displays the code for 'member-detail.page.html'. A red box highlights the header section of the code:

```
1 <ion-header [translucent]="true">
2   <ion-toolbar color="danger" mode="md">
3     <ion-buttons slot="start">
4       <ion-back-button></ion-back-button>
5     </ion-buttons>
6     <ion-title>ข้อมูลสมาชิก</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content [fullscreen]="true" class="ion-padding">
11   <div style="height: 20px;"></div>
12
13 </ion-content>
14
```



member-detail.page.html U X

```
1 <ion-header [translucent]="true">
2   <ion-toolbar color="danger" mode="md">
3     <ion-buttons slot="start">
4       <ion-back-button></ion-back-button>
5     </ion-buttons>
6     <ion-title>ข้อมูลสมาชิก</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content fullscreen="true" class="ion-padding">
11   <div style="height: 20px;"></div>
12   <div style="text-align: center;font-size: 17pt;">{{ fullname }}</div>
13   <div style="height: 20px;"></div>
14
15 </ion-content>
16
```





← → C



https://ionicframework.com/docs/v5/api/item



Guide

Components

CLI

Native

Ionic v7.0.0 Upgrade Guide →

▼ Item

ion-item

ion-item-divider

ion-item-group

ion-item-sliding

ion-item-options

ion-item-option

ion-label

ion-item

Items are elements that can contain text, icons, any other native or custom elements. Generally

```
<ion-item>
  <ion-icon name="information-circle" size="small" slot="end"></ion-icon>
</ion-item>
```

```
<ion-item>
  <ion-icon name="star" slot="start"></ion-icon>
  <ion-label> Icon Start </ion-label>
</ion-item>
```

```
<ion-item>
  <ion-label> Two Icons End </ion-label>
  <ion-icon name="checkmark-circle" slot="end"></ion-icon>
  <ion-icon name="shuffle" slot="end"></ion-icon>
</ion-item>
```

Item Inputs

The screenshot shows a code editor interface with the following details:

- Title Bar:** myapp
- Sidebar:** Includes icons for file operations (New, Open, Save, etc.), search, and navigation.
- Status Bar:** Shows the current branch (master*+), file count (0), error count (0), line count (51), character count (7841), encoding (UTF-8), line endings (LF), file type (HTML), and live preview status.
- Code Area:** The file `member-detail.page.html` contains the following code:

```
9
10 <ion-content [fullscreen]="true" class="ion-padding">
11   <div style="height: 20px;"></div>
12   <div style="text-align: center;font-size: 17pt;">{{ fullname }}</div>
13   <div style="height: 20px;"></div>
14   <ion-item>
15     <ion-icon name="star" slot="start"></ion-icon>
16     <ion-label> Icon Start </ion-label>
17   </ion-item>
18
19 </ion-content>
20
```

A red rectangular box highlights the following block of code:

```
<ion-item>
<ion-icon name="star" slot="start"></ion-icon>
<ion-label> Icon Start </ion-label>
</ion-item>
```



member-detail.page.html U X

```
14 <ion-item>
15   <ion-icon name="start" slot="start"></ion-icon>
16   <ion-label>{{ email }}</ion-label>
17 </ion-item>
18 <ion-item>
19   <ion-icon name="start" slot="start"></ion-icon>
20   <ion-label>{{ mobile }}</ion-label>
21 </ion-item>
22 <ion-item>
23   <ion-icon name="start" slot="start"></ion-icon>
24   <ion-label>{{ lineid }}</ion-label>
25 </ion-item>
26 <ion-item>
27   <ion-icon name="start" slot="start"></ion-icon>
28   <ion-label>{{ detail }}</ion-label>
29 </ion-item>
```



← → C



https://ionicframework.com/docs/v5/api/avatar



Guide

Components

CLI

Native

Ionic v7.0.0 Upgrade Guide →

▼ Media

ion-avatar

ion-icon

ion-img

ion-thumbnail

▼ Menu

ion-menu

ion-menu-button

slot to start or end , respectively.

Usage

Angular

Javascript

React

Stencil

Vue

```
<ion-avatar>
  
</ion-avatar>
```

https://ionic.io/ionicons/?_gl=1*19ncm1j*_ga*Mjl0OTQ1ODI3LjE2ODkyMzcyNDg.*_ga_REH9TJF6KF*MTY5MzU0OTU2MC4xNS4xLjE2OTM1NTAxNjYuMC4wLjA. ⭐

ionicons

7.1.0

Icons Usage GitHub [Designer pack](#)

Search icons...

App icons

Outline Filled Sharp

👤	+	➕	✈️	⌚	📁	❗	❗
🏈	〰️	🎯	_Grid	⬇️	⬅️	⬅️	⬇️
⬇️	➡️	➡️	➡️	⟳	↶	↶	↑
⬆️	@	@	📎	✖️	🛍	🛍	✓
🛍	➖	🎈	🚫	💊	📊	🏋️	⠇

mail-outline

WEB COMPONENT CODE

```
<ion-icon name="mail-outline"></ion-icon>
```

USAGE

✉️ [SVG](#)



member-detail.page.html U X

```
14 <ion-item>
15   <ion-icon name="mail-outline" slot="start"></ion-icon>
16   <ion-label>{{ email }}</ion-label>
17 </ion-item>
18 <ion-item>
19   <ion-icon name="call" slot="start"></ion-icon>
20   <ion-label>{{ mobile }}</ion-label>
21 </ion-item>
22 <ion-item>
23   <ion-icon name="chatbox-ellipses-outline" slot="start"></ion-icon>
24   <ion-label>{{ lineid }}</ion-label>
25 </ion-item>
26 <ion-item>
27   <ion-icon name="receipt" slot="start"></ion-icon>
28   <ion-label>{{ detail }}</ion-label>
29 </ion-item>
```

master*+ ↗ 0 △ 0 {..}: 51 ⏴ 7841 Spaces: 2 UTF-8 LF {} HTML ⏹ Go Live ✓ Prettier 🔍 🔔

Firefox Ionic App phpMyAdmin 127.0.0.1:8080/member/find.php?id ion-item | Ionic Documentation

localhost:8100/member-detail/1

← → C ⌂ ⌂ 383 x 654 DPR: 1... ไม่มีการควบคุมเบราว์เซอร์ UA: ตัวแทนผู้ใช้ที่กำหนดเอง

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💬 amigozei

📝 Lecturer

ถอนช่อง กรองค่าอອກ ข้อผิดพลาด คำเตือน รายการบันทึก ข้อมูล ดีนัก CSS

[webpack-dev-server] Disconnected! polyfills.js:6335:28

[webpack-dev-server] Trying to reconnect... polyfills.js:6335:28

[webpack-dev-server] Server started: Hot Module Replacement disabled, Live Reloading enabled, Progress disabled, Overlay enabled. index.js:485:21

Angular is running in development mode. core.mjs:26021:16

▶ Array(3) [..., ..., ...] member.page.ts:17:14

»

← → C<https://ionicframework.com/docs/v5/api/grid>GuideComponentsCLINativeIonic v7.0.0 Upgrade Guide →▼ Gridion-gridion-colion-row▼ Infinite Scrollion-infinite-scroll

ion-grid

The grid is a powerful mobile-first flexbox system for creating responsive layouts.

Usage

Angular

Javascript

React

Stencil

Vue

Cop

```
<ion-grid>
  <ion-row>
    <ion-col> ion-col </ion-col>
    <ion-col> ion-col </ion-col>
    <ion-col> ion-col </ion-col>
    <ion-col> ion-col </ion-col>
  </ion-row>

  <ion-row>
    <ion-col size="6"> ion-col [size="6"] </ion-col>
    <ion-col> ion-col </ion-col>
    <ion-col> ion-col </ion-col>
  </ion-row>
```



130



member-detail.page.html



```
26 <ion-item>
27   <ion-icon name="receipt" slot="start"></ion-icon>
28   <ion-label>{{ detail }}</ion-label>
29 </ion-item>
30 <div style="height: 20px;"></div>
31 <ion-row>
32   <ion-col>
33
34   </ion-col>
35   <ion-col>
36
37   </ion-col>
38 </ion-row>
39 </ion-content>
40
```



ma



⊗ 0 !

{..} :

7 Ⓢ 7853

Spaces: 2

UTF-8

LF



HTML



Go Live





▼ Button

[ion-button](#)[ion-ripple-effect](#)

▼ Card

[ion-card](#)[ion-card-content](#)[ion-card-header](#)

ion-button

Buttons provide a **clickable element**, which can be placed anywhere that needs simple, standard button functionality.



```
<ion-button color="success">Success</ion-button>
<ion-button color="warning">Warning</ion-button>
<ion-button color="danger">Danger</ion-button>
<ion-button color="light">Light</ion-button>
<ion-button color="medium">Medium</ion-button>
<ion-button color="dark">Dark</ion-button>

<!-- Expand -->
<ion-button expand="full">Full Button</ion-button>
<ion-button expand="block">Block Button</ion-button>

<!-- Round -->
<ion-button shape="round">Round Button</ion-button>

<!-- Fill -->
<ion-button expand="full" fill="outline">Outline + Full</ion-button>
<ion-button expand="block" fill="outline">Outline + Block</ion-button>
```



member-detail.page.html

```
30 <div style="height: 20px;"></div>
31 <ion-row>
32   <ion-col>
33     <ion-button expand="full" color="success"
34       [routerLink]=["/member-edit/", id]>
35       <ion-icon class="btn" name="create-outline"></ion-icon>&ampnbspแก้ไข
36     </ion-button>
37   </ion-col>
38   <ion-col>
39     <ion-button expand="full" color="warning">
40       <ion-icon class="btn" name="trash-outline"></ion-icon>&ampnbspลบ
41     </ion-button>
42   </ion-col>
43 </ion-row>
44 </ion-content>
45
```

master*+ ↻ ⏪ 0 ⏴ 0 {..}: 57 ⏵ 7853 Spaces: 2 UTF-8 LF {} HTML ⏹ Go Live ✓ Prettier ⏹ ⏹

Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่ ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา

The screenshot shows a code editor interface with the following details:

- Title Bar:** The title bar displays the file name "member-detail.page.scss" and a search bar containing the text "myapp".
- Sidebar:** On the left side, there is a vertical sidebar with several icons: a file icon, a magnifying glass icon, a circular icon with "124" (likely notifications), three dots, a user icon, and a gear icon.
- Code Area:** The main area contains the following SCSS code:

```
1 ion-button {  
2   font-size: 13pt;  
3   margin-top: 20px;  
4   height: 50px;  
5 }  
6
```
- Bottom Bar:** The bottom bar includes navigation icons for back, forward, and search, along with project information ("master*+", 0 changes, 51 files, 7841 commits), file encoding ("Spaces: 2"), line endings ("CRLF"), and styling options ("SCSS", "Go Live", "Prettier").
- Page Footer:** The footer contains the text "Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่" and "ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา".

Firefox 127.0.0.1 / localhost / mobile16 X 127.0.0.1:8080/member/find.php?id X ion-button | Ionic Documentation X Ionicons: Premium Open Source X +

localhost:8100/member-detail/1

← → C ⌂ 383 x 654 DPR: 1... ไม่มีการควบคุมเบราว์เซอร์ UA: ตัวแทนผู้ใช้ที่กำหนดเอง

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[webpack-dev-server] Disconnected! polyfills.js:6335:28

[webpack-dev-server] Trying to reconnect... polyfills.js:6335:28

[webpack-dev-server] Server started: Hot Module Replacement disabled, Live Reloading enabled, Progress disabled, Overlay enabled. index.js:485:21

Angular is running in development mode. core.mjs:26021:16

▶ Array(3) [..., ..., ...] member.page.ts:17:14



File Edit Selection View Go Run Terminal Help

← →

New Terminal

Ctrl+Shift+`

Split Terminal

Ctrl+Shift+5

Run Task...

Run Build Task...

Ctrl+Shift+B

Run Active File

Run Selected Text

Show Running Tasks...

Restart Running Task...

Terminate Task...

Configure Tasks...

Configure Default Build Task...





PROBLEMS

OUTPUT

TERMINAL

DEBUG CONSOLE

powershell



```
PS D:\WORKSHOPS\66-1_MobileApp\refer\myapp> ionic g page memberEdit
```



master*+ ↗ 0 ⚠ 0 {..}: 51 ⏴ 7841

Spaces: 2

UTF-8

LF

{ } HTML



Go Live

✓ Prettier

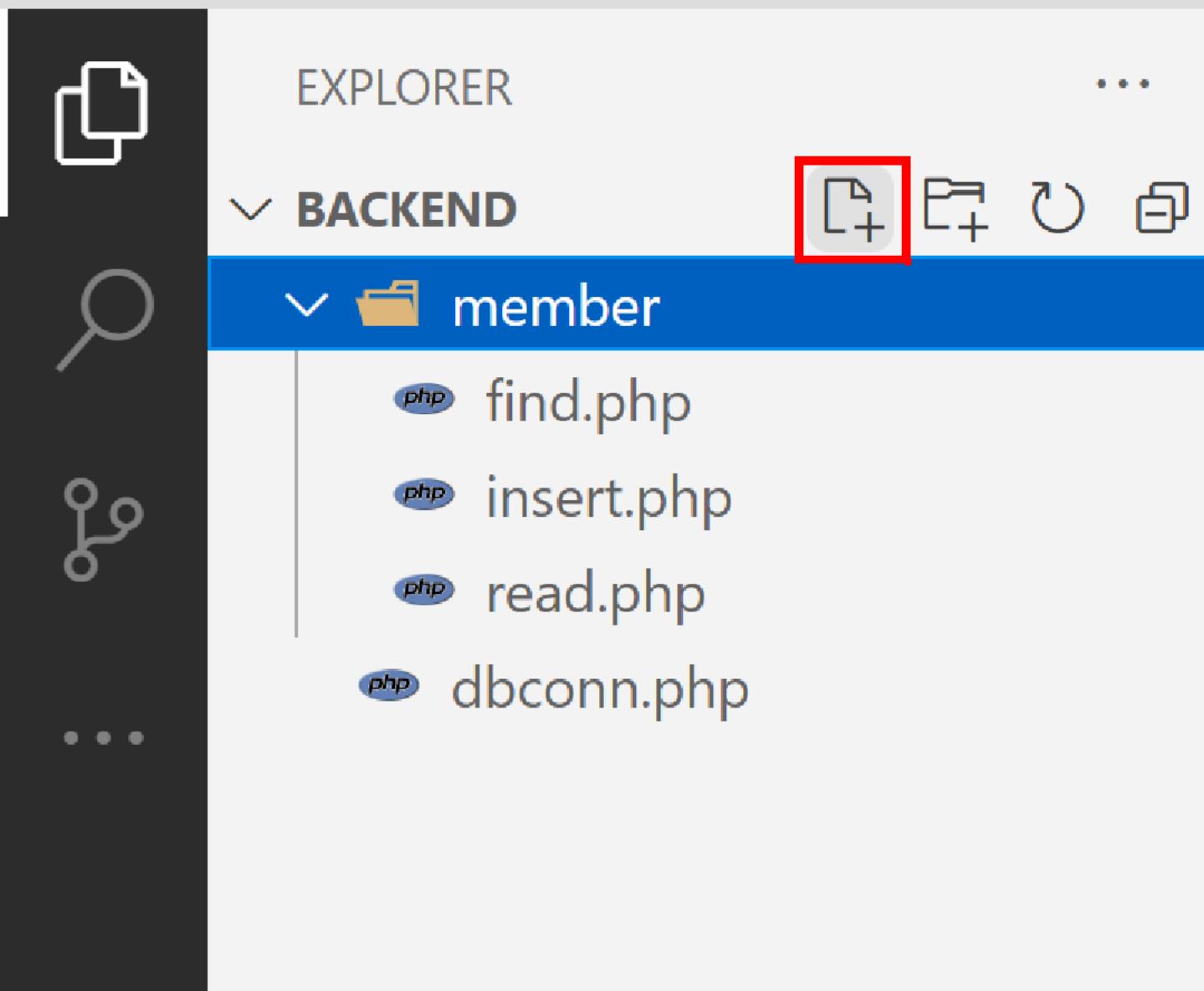


The screenshot shows the Microsoft Visual Studio Code interface with the following details:

- Title Bar:** myapp
- Left Sidebar:** Includes icons for File, Search, Problems (136), and Help.
- Code Editor:** The file `app-routing.module.ts` is open. The code defines a routing module with four routes:
 - `'member-add'`: Loads the `member-add.module`.
 - `'member-detail/:id'`: Loads the `member-detail.module`.
 - `'member-edit/:id'`: Loads the `member-edit.module`. The `:/id` part is highlighted with a red rectangle.
 - `'member-delete'`: Loads the `member-delete.module`.
- Bottom Status Bar:** Shows the file path `master*+ app-routing.module.ts`, line count `57`, character count `7853`, encoding `UTF-8`, line separator `LF`, file type `TypeScript`, and status icons for Go Live, Prettier, and other extensions.
- Bottom Footer:** Text in Thai: "Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่" and "ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา".



backend





backend

EXPLORER

...

BACKEND

member

- find.php
- insert.php
- read.php
- update.php

dbconn.php

update.php

1 |

The screenshot shows the Visual Studio Code interface. On the left is the Explorer sidebar with a dark theme. It lists a 'BACKEND' folder containing a 'member' folder and several PHP files: 'find.php', 'insert.php', 'read.php', 'update.php', and 'dbconn.php'. The 'update.php' file is currently selected, indicated by a red rectangular highlight around its name in the file list. In the main editor area, the file 'update.php' is open, showing a single digit '1' followed by a cursor. The status bar at the bottom of the code editor is visible.

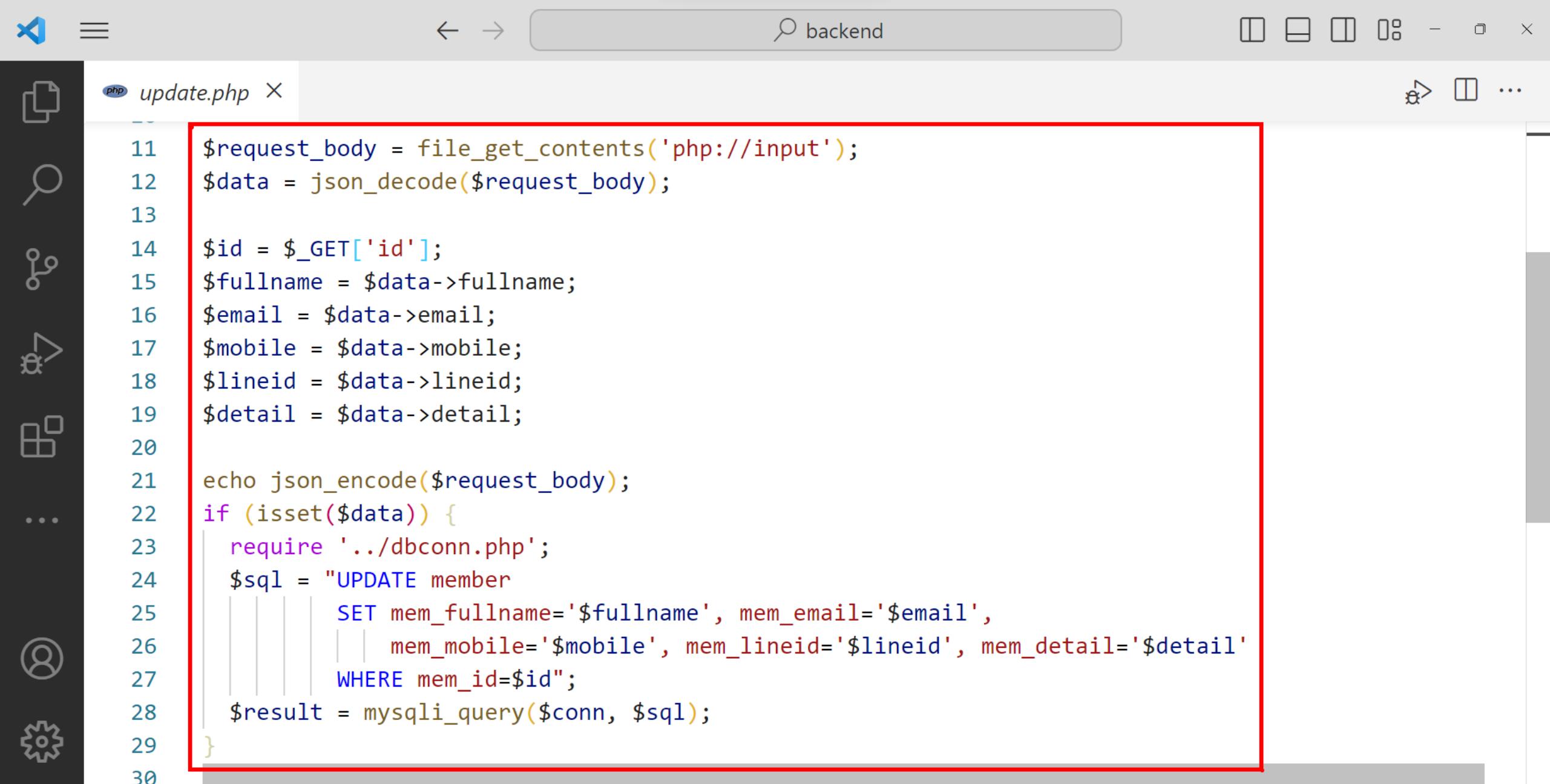
A screenshot of a code editor interface, likely Microsoft Visual Studio Code, displaying a file named "update.php". The code implements CORS (Cross-Origin Resource Sharing) headers. The editor has a dark theme with light-colored syntax highlighting. The sidebar on the left contains icons for file operations like Open, Save, Find, and Settings. The top bar includes navigation icons, a search bar with the text "backend", and window control buttons. The status bar at the bottom shows file statistics and various tool icons.

```
1 <?php
2 header("Access-Control-Allow-Origin: *");
3 header('Access-Control-Allow-Credentials: true');
4 header('Access-Control-Allow-Methods: GET, POST, PATCH, PUT, DELETE, OPTIONS');
5 header('Content-Type: application/json');
6 header('Access-Control-Allow-Headers: Access-Control-Allow-Headers');
7 header('Access-Control-Allow-Headers: Content-Type,Access-Control-Allow-Methods, Authorization');
8 header('Access-Control-Allow-Headers: X-Requested-With');
9 header('Access-Control-Max-Age: 86400');
10
11
12
13
14
15
16
17
18
19
20
```

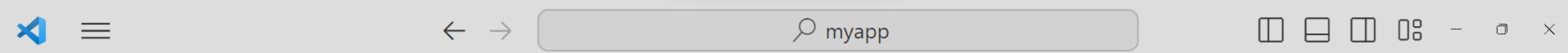
Screen Reader Optimized Ln 23, Col 1 Spaces: 2 UTF-8 LF PHP Go Live Prettier

Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่

ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา



ដំឡើងសាស្ត្រាជារយៈស្ថាបនីទិន្នន័យ



TS member.service.ts U X

```
10  constructor(private httpClient: HttpClient) { }

11
12  insert(data: any) {
13    return this.httpClient.post(this.apiURL + 'insert.php', JSON.stringify(data))
14  }

15
16  read() {
17    return this.httpClient.get(this.apiURL + 'read.php')
18  }

19
20  find(id: number) {
21    return this.httpClient.get(this.apiURL + 'find.php?id=' + id)
22  }

23
24  update(id: number, data: any) {
25    return this.httpClient.put(this.apiURL + 'update.php?id=' + id, JSON.stringify(data))
26  }

27
28 }
```

master*+ ↗ 0 ⚠ 0 {..}: 57 ⏴ 7853 Ln 30, Col 1 Spaces: 2 UTF-8 LF {} TypeScript ⏹ Go Live ✅ Prettier ⏷ 🔍 🔔



TS member-edit.page.ts U X

```
1 import { Component, OnInit } from '@angular/core';
2 import { MemberService } from './../../../services/member.service';
3 import { ActivatedRoute, Router } from '@angular/router';
4
5 @Component({
6   selector: 'app-member-edit',
7   templateUrl: './member-edit.page.html',
8   styleUrls: ['./member-edit.page.scss'],
9 })
10 export class MemberEditPage implements OnInit {
11
12   constructor(
13     public service: MemberService,
14     private route: ActivatedRoute,
15     private router: Router
16   ) { }
```



TS member-edit.page.ts U X

```
10  export class MemberEditPage implements OnInit {
11
12    id!: number;
13    fullname: any;
14    email: any;
15    mobile: any;
16    lineid: any;
17    detail: any;
18
19    constructor(
20      public service: MemberService,
21      private route: ActivatedRoute,
22      private router: Router
23    ) { }
24
25    ngOnInit(): void {
```



The screenshot shows a Microsoft Visual Studio Code interface. The title bar includes icons for file, edit, search, and close, followed by a search bar containing 'myapp'. The main editor area displays a TypeScript file named 'member-edit.page.ts'. The code is highlighted with syntax coloring, showing variables like 'this.id', 'this.service', and 'data[0]' in blue, and methods like 'subscribe' and 'find' in orange. A red rectangular box highlights the following code block:

```
25  ngOnInit(): void {  
26      this.id = this.route.snapshot.params['id'];  
27      this.service.find(this.id).subscribe((data: any) => {  
28          this.fullname = data[0].mem_fullname;  
29          this.email = data[0].mem_email;  
30          this.mobile = data[0].mem_mobile;  
31          this.lineid = data[0].mem_lineid;  
32          this.detail = data[0].mem_detail;  
33      });  
34  }  
35  
36 }  
37
```

The code performs an asynchronous operation to fetch a member record from a service based on the provided ID, then updates local properties with the fetched data.



member-edit.page.html U X

```
1 <ion-header [translucent]="true">
2   <ion-toolbar color="danger" mode="md">
3     <ion-buttons slot="start">
4       <ion-back-button></ion-back-button>
5     </ion-buttons>
6     <ion-title>แก้ไขข้อมูลสมาชิก</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content [fullscreen]="true" class="ion-padding">
11
12 </ion-content>
13
```

master*+ ↗ 0 ⚠ 0 {..}: 57 ⏴ 7853 Spaces: 2 UTF-8 LF {} HTML ⏹ Go Live ✅ Prettier 🔍 🔔

The screenshot shows a code editor interface with the following details:

- Title Bar:** myapp
- Sidebar Icons:** File, Search, Recent (136), Help.
- File Tab:** member-edit.page.html
- Code Content:**

```
10  <ion-content [fullscreen]="true" class="ion-padding">
11    <form novalidate #member="ngForm">
12    </form>
13  </ion-content>
14
15
```
- Annotations:** A red rectangular box highlights the entire content of the `<form novalidate #member="ngForm">` tag.
- Bottom Status Bar:** master*, 0 △ 0, {..}: 57, 7853, Spaces: 2, UTF-8, LF, {}, HTML, Go Live, Prettier, Help, Notifications.

The screenshot shows a code editor interface with the following details:

- Title Bar:** myapp
- Sidebar Icons:** File, Search, Undo (136), Redo, Grid View (3), and Help.
- Code Editor Area:** The file is member-edit.page.html. A red box highlights the first five `<ion-item>` blocks, which define input fields for fullname, email, mobile, lineid, and detail.
- Code Content:**

```
12 <ion-item>
13   <ion-label position="floating">ชื่อ-นามสกุล</ion-label>
14   <ion-input [(ngModel)]="fullname" name="fullname"></ion-input>
15 </ion-item>
16 <ion-item>
17   <ion-label position="floating">อีเมล</ion-label>
18   <ion-input [(ngModel)]="email" name="email"></ion-input>
19 </ion-item>
20 <ion-item>
21   <ion-label position="floating">เบอร์โทรศัพท์</ion-label>
22   <ion-input [(ngModel)]="mobile" name="mobile"></ion-input>
23 </ion-item>
24 <ion-item>
25   <ion-label position="floating">ไวน์ไอดี</ion-label>
26   <ion-input [(ngModel)]="lineid" name="lineid"></ion-input>
27 </ion-item>
28 <ion-item>
29   <ion-label position="floating">เพิมเติม</ion-label>
30   <ion-textarea [(ngModel)]="detail" name="detail"></ion-textarea>
31 </ion-item>
```
- Bottom Status Bar:** master*+, 0 △ 0, {..}: 57, 7853, Ln 35, Col 1, Spaces: 2, UTF-8, LF, {}, HTML, Go Live, Prettier, and a few icons.
- Page Footer:** Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่, ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา



member-edit.page.html

```
24 <ion-item>
25   <ion-label position="floating">ໄລ້ໄອດີ</ion-label>
26   <ion-input [(ngModel)]="lineid" name="lineid"></ion-input>
27 </ion-item>
28 <ion-item>
29   <ion-label position="floating">ເພີ່ມເຕີມ</ion-label>
30   <ion-textarea [(ngModel)]="detail" name="detail"></ion-textarea>
31 </ion-item>
32 <ion-button expand="full">
33   <ion-icon name="save-outline"></ion-icon>&ampnbspອັບເດຕຂໍ້ມູນ
34 </ion-button>
35 </form>
36 </ion-content>
37
```



TS member-edit.page.ts U X

```
24  ngOnInit(): void {
25      this.id = this.route.snapshot.params['id'];
26      this.service.find(this.id).subscribe((data: any) => {
27          this.fullname = data[0].mem_fullname;
28          this.email = data[0].mem_email;
29          this.mobile = data[0].mem_mobile;
30          this.lineid = data[0].mem_lineid;
31          this.detail = data[0].mem_detail;
32      });
33  }
34
35  update(data: any) {
36
37  }
38
39 }
```





member-edit.page.html

```
24 <ion-item>
25   <ion-label position="floating">ໄລ່ນໍາໂຄດີ</ion-label>
26   <ion-input [(ngModel)]="lineid" name="lineid"></ion-input>
27 </ion-item>
28 <ion-item>
29   <ion-label position="floating">ເພີ່ມເຕີມ</ion-label>
30   <ion-textarea [(ngModel)]="detail" name="detail"></ion-textarea>
31 </ion-item>
32   <ion-button (click)="update(member.value)" expand="full">
33     <ion-icon name="save-outline"></ion-icon>&ampnbspອັບເດຕຂ້ອມລູ
34   </ion-button>
35 </form>
36 </ion-content>
37
```

master*+ ↕ ⚡ 0 ⚡ 0 {..}: 57 ⌂ 7853 Spaces: 2 UTF-8 LF {} HTML ⌂ Go Live ✓ Prettier ⌂ ⌂

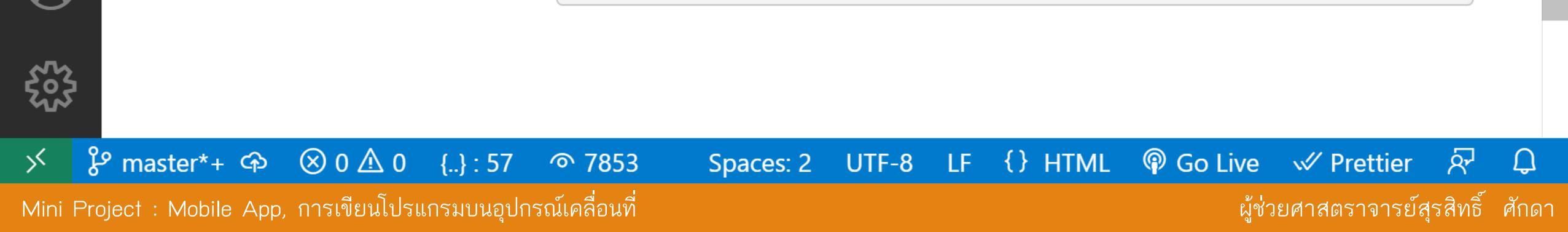


member-edit.page.html

```
27 </ion-content>
28
29 <ion-item>
30   <ion-label position="floating">เพิ่มเติม</ion-label>
31   <ion-textarea [(ngModel)]="detail" name="detail"></ion-textarea>
32 <ion-button ngIf="update(member.value)" expand="full">
33   <ion-icon name="add"></ion-icon>
34 </ion-button>
35 </form>
36 </ion-content>
37
```

The code editor shows a dropdown menu with suggestions for the 'ngIf' directive. The suggestion 'a-ngIfElse' is highlighted with a red box.

Suggestion	Description
ngSwitch	
a-ngIf	
a-ngIfElse	ngIfElse
[ngSwitch]	
@matCardImage	attribute directive card image
@matCardImageLarge	attribute directive card image lar...
@matCardImageSmall	attribute directive card image sm...





member-edit.page.html

```
</ion-content>
</ion-page>
</ion-view>
</ion-content>
</ion-page>
</ion-view>
</ion-app>
```

28 <ion-item>
29 <ion-label position="floating">เพิ่มเติม</ion-label>
30 <ion-textarea [(ngModel)]="detail" name="detail"></ion-textarea>
31 </ion-item>
32 <ion-button *ngIf="fullname && email && mobile && lineid; else disBTN" (click)
33 <ion-icon name="save-outline"></ion-icon>&nbspอัปเดตข้อมูล
34 </ion-button>
35 <ng-template #disBTN>
36 </ng-template>
37 </ng-template>
38 </form>
39 </ion-content>
40

The screenshot shows a code editor window with the following details:

- Title Bar:** myapp
- Sidebar Icons:** File, Search, Undo, Redo, Save, and a gear icon labeled "136".
- Code Editor Area:** The file "member-edit.page.html" is open. The code uses the Ionic framework (HTML, CSS, and JS).

```
</ion-content>
<ion-item>
  <ion-label position="floating">เพิ่มเติม</ion-label>
  <ion-textarea [(ngModel)]="detail" name="detail"></ion-textarea>
</ion-item>
<ion-button *ngIf="fullname && email && mobile && lineid; else disBTN" (click)
  <ion-icon name="save-outline"></ion-icon>&ampnbspอัปเดตข้อมูล
</ion-button>
<ng-template #disBTN>
  <ion-button disabled expand="full">
    <ion-icon name="save-outline"></ion-icon>&ampnbspอัปเดตข้อมูล
  </ion-button>
</ng-template>
</form>
</ion-content>
```
- Code Editor Status:** The code block from line 36 to 38 is highlighted with a red border.
- Bottom Bar:** Includes tabs for master*, up, down, 0 errors, 0 warnings, 57 lines, 7853 characters, Spaces: 2, UTF-8, LF, HTML, Go Live, Prettier, and a few other icons.

The screenshot shows a Microsoft Visual Studio Code interface. The title bar includes icons for file, edit, search, and close, followed by a search bar containing 'myapp'. The main workspace shows a file named 'member-edit.page.ts' with the following code:

```
update(data: any) {
    this.service.update(this.id, data).subscribe(() => {
        console.log('Updated successfully!');
        this.router.navigateByUrl('member');
    })
}
```

A red rectangular box highlights the block of code from line 37 to line 40. The status bar at the bottom displays the file path 'master*+', line counts (0△0), character count (57), and word count (7853), along with encoding (UTF-8), line endings (LF), and language (TypeScript). It also features 'Go Live', 'Prettier', and notifications icons.

The screenshot shows a code editor interface with the following details:

- Title Bar:** The title bar displays "myapp" in a search bar.
- Sidebar:** On the left side, there are several icons: a file icon, a magnifying glass icon, a circular icon with "130" (likely notifications), three dots, a user icon, and a gear icon.
- Code Area:** The main area contains SCSS code for a component named "member-edit.page.scss".

```
1 ion-button {  
2   font-size: 13pt;  
3   margin-top: 20px;  
4   height: 50px;  
5 }  
6  
7 ion-input {  
8   font-size: 13pt;  
9 }  
10
```
- Annotations:** The first two CSS rules (ion-button) are highlighted with a red rectangular box.
- Bottom Bar:** The bottom bar includes navigation icons (back, forward, search, etc.), repository information ("master*+"), file status ("0 0 0 57 7853"), encoding ("Spaces: 2"), line endings ("CRLF"), file type ("SCSS"), and live preview ("Go Live"). It also features "Prettier" and "Format" buttons.
- Page Footer:** The footer contains the text "Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่" and "ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา".

Firefox Ionic App UI Components | User Interface

localhost:8100/member-edit/1

เข้าสู่ระบบ | 383 x 654 | DPR: 1... | ไม่มีการควบคุมเบราว์เซอร์ | UA: ตัวแทนผู้ใช้ที่กำหนดเอง

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ถอน

กรองค่าออก

ข้อผิดพลาด ค่าเดือน รายการบันทึก ข้อมูล

ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา



backend

EXPLORER

...

BACKEND

...

member

find.php

insert.php

read.php

update.php

dbconn.php

delete.php

The 'member' folder and its contents are highlighted with a blue selection bar.

A red box highlights the 'New Item' button (a file icon with a plus sign) located in the toolbar above the file list.



backend



EXPLORER

...

BACKEND

member

delete.php

find.php

insert.php

read.php

update.php

dbconn.php

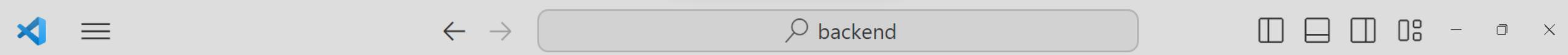
delete.php



delete.php



1



```
delete.php X ↗ ⓘ ...  
1 <?php  
2 header("Access-Control-Allow-Origin: *");  
3 header('Access-Control-Allow-Credentials: true');  
4 header('Access-Control-Allow-Methods: GET, POST, PATCH, PUT, DELETE, OPTIONS');  
5 header('Content-Type: application/json');  
6 header('Access-Control-Allow-Headers: Access-Control-Allow-Headers');  
7 header('Access-Control-Allow-Headers: Content-Type,Access-Control-Allow-Methods, Authorization');  
8 header('Access-Control-Allow-Headers: X-Requested-With');  
9 header('Access-Control-Max-Age: 86400');  
10  
11 $id = $_GET['id'];  
12  
13 require '../dbconn.php';  
14 $sql = "DELETE FROM member WHERE mem_id='$id' ";  
15 $result = mysqli_query($conn, $sql);  
16
```

myapp

TS member.service.ts U X

15
16 read() {
17 | return this.httpClient.get(this.apiURL + 'read.php')
18 }
19
20 find(id: number) {
21 | return this.httpClient.get(this.apiURL + 'find.php?id=' + id)
22 }
23
24 update(id: number, data: any) {
25 | return this.httpClient.put(this.apiURL + 'update.php?id=' + id, JSON.stringify(data))
26 }
27
28 delete(id: number){
29 | return this.httpClient.delete(this.apiURL + 'delete.php?id=' + id)
30 }
31
32 }
33
34

136

master*+ ↕ ⊗ 0 △ 0 {..}: 57 ⏴ 7853 Ln 34, Col 1 Spaces: 2 UTF-8 LF {} TypeScript ⏹ Go Live ✓ Prettier ⏷ 🔔

Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่ ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา



TS member-detail.page.ts U X

```
24  ngOnInit(): void {
25      this.id = this.route.snapshot.params['id'];
26      this.service.find(this.id).subscribe((data: any) => {
27          this.fullname = data[0].mem_fullname;
28          this.email = data[0].mem_email;
29          this.mobile = data[0].mem_mobile;
30          this.lineid = data[0].mem_lineid;
31          this.detail = data[0].mem_detail;
32      });
33  }
34
35  delete() {
36
37  }
38
39 }
```



member-detail.page.html U X

```
30 <div style="height: 20px;"></div>
31 <ion-row>
32   <ion-col>
33     <ion-button expand="full" color="success"
34       [routerLink]=["/member-edit/", id]>
35       <ion-icon class="btn" name="create-outline"></ion-icon>&ampnbspแก้ไข
36     </ion-button>
37   </ion-col>
38   <ion-col>
39     <ion-button expand="full" color="warning" (click)="delete(id)">
40       <ion-icon class="btn" name="trash-outline"></ion-icon>&ampnbspลบ
41     </ion-button>
42   </ion-col>
43 </ion-row>
44 </ion-content>
45
```

master*+ ↻ ⏪ 0 ⏴ 0 {..}: 57 ⏵ 7853 Spaces: 2 UTF-8 LF {} HTML ⏹ Go Live ✓ Prettier ⏹ ⏹

Mini Project : Mobile App, การเขียนโปรแกรมบนอุปกรณ์เคลื่อนที่ ผู้ช่วยศาสตราจารย์สุรศิทธิ์ ศักดา



myapp

member-detail.page.ts

```
36 delete(id: number) {  
37     this.service.delete(id).subscribe(() => {  
38         this.router.navigateByUrl('member');  
39     })  
40 }  
41  
42 }  
43
```

master*+ ⏵ ⚡ 0 ⚡ 0 {..}: 57 ⏴ 7853

UTF-8 LF {} TypeScript ⏴ Go Live ✓ Prettier ⏵ ⏵

Firefox Ionic App Ion-Grid: Display Grids to Build Ionicons: Premium Open Source +

localhost:8100/member

เข้าสู่ระบบ 383 x 654 DPR: 1... ไม่มีการควบคุมเบราว์เซอร์UA: ตัวแทนผู้ใช้ที่กำหนดเอง

สมัขิก +

สุรศิทธิ์ ศักดา >

วีระพงษ์ จันมณี >

ปณัชดา เมืองเพชร > (highlighted)

ลบ กรองค่าอุปกรณ์ ข้อผิดพลาด คำเตือน (5) รายการบันทึก ข้อมูล

[webpack-dev-server] Disconnected! polyfills.js:6335:28

[webpack-dev-server] Trying to reconnect... polyfills.js:6335:28

[webpack-dev-server] Server started: Hot Module Replacement disabled, Live Reloading enabled, Progress disabled, Overlay enabled. index.js:485:21

Angular is running in development mode. core.mjs:26021:16

▶ Array(3) [..., ..., ...] member.page.ts:17:14

»

Firefox Ionic App Ion-Grid: Display Grids to Build Ionicons: Premium Open Source +

← → C localhost:8100/member-detail/3 ⌂ 383 x 654 DPR: 1... ไม่มีการควบคุมเบราว์เซอร์UA: ตัวแทนผู้ใช้ที่กำหนดเอง

← ข้อมูลสมาชิก

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Student

แก้ไข ลบ

trash can icon

ข้อผิดพลาด ค่าเดือน (5) รายการบันทึก ข้อมูล

[webpack-dev-server] Disconnected! polyfills.js:6335:28

[webpack-dev-server] Trying to reconnect... polyfills.js:6335:28

[webpack-dev-server] Server started: Hot Module Replacement disabled, Live Reloading enabled, Progress disabled, Overlay enabled. index.js:485:21

Angular is running in development mode. core.mjs:26021:16

▶ Array(3) [..., ..., ...] member.page.ts:17:14

»

Firefox Ionic App Ion-Grid: Display Grids to Build Ionicons: Premium Open Source +

localhost:8100/member

เข้าสู่ระบบ 383 x 654 DPR: 1... ไม่มีการควบคุมเบราว์เซอร์UA: ตัวแทนผู้ใช้ที่กำหนดเอง

สมัขิก +

สุรศิทธิ์ ศักดา >

วีระพงษ์ จันมณี >

ลบ กรองค่าอุปกรณ์ ข้อผิดพลาด ค่าเดือน รายการบันทึก ข้อมูล

[webpack-dev-server] Disconnected! polyfills.js:6335:28

[webpack-dev-server] Trying to reconnect... polyfills.js:6335:28

[webpack-dev-server] Server started: Hot Module Replacement disabled, Live Reloading enabled, Progress disabled, Overlay enabled. index.js:485:21

Angular is running in development mode. core.mjs:26021:16

▶ Array [..., ...] member.page.ts:17:14

»