

How to use Bootstrap4 Dialog in Angular 8

by *Shuichi Ohtsu*



Full source code

<https://github.com/Ohtsu/ng8-bootstrap4-dialog>

Video commentary (Japanese)



Video commentary (English)



About creating a project

Here, I will introduce how to use Bootstrap4 Dialog in Angular 8.

As for how to set Bootstrap4 from the project creation stage, please see the *How to set Bootstrap4 environment in Angular8* <https://youtu.be/gFxuSi4IZjM>, which I have already published.

This time, we are going to download such a pre-set project from GitHub, and then proceed with incorporating Dialog into it.

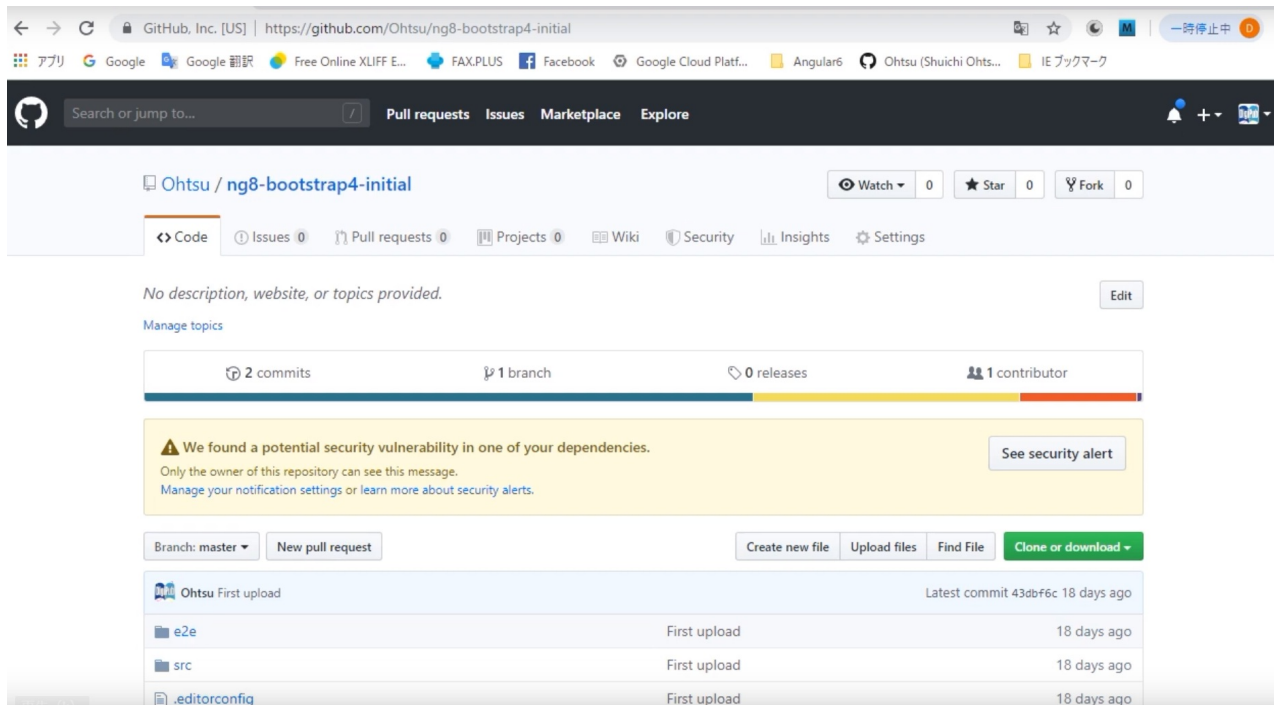
For the contents of the project, please see the full source code.

Download Project Source with Bootstrap 4 from GitHub

First, download the full source code of the project incorporating Bootstrap4 from GitHub.

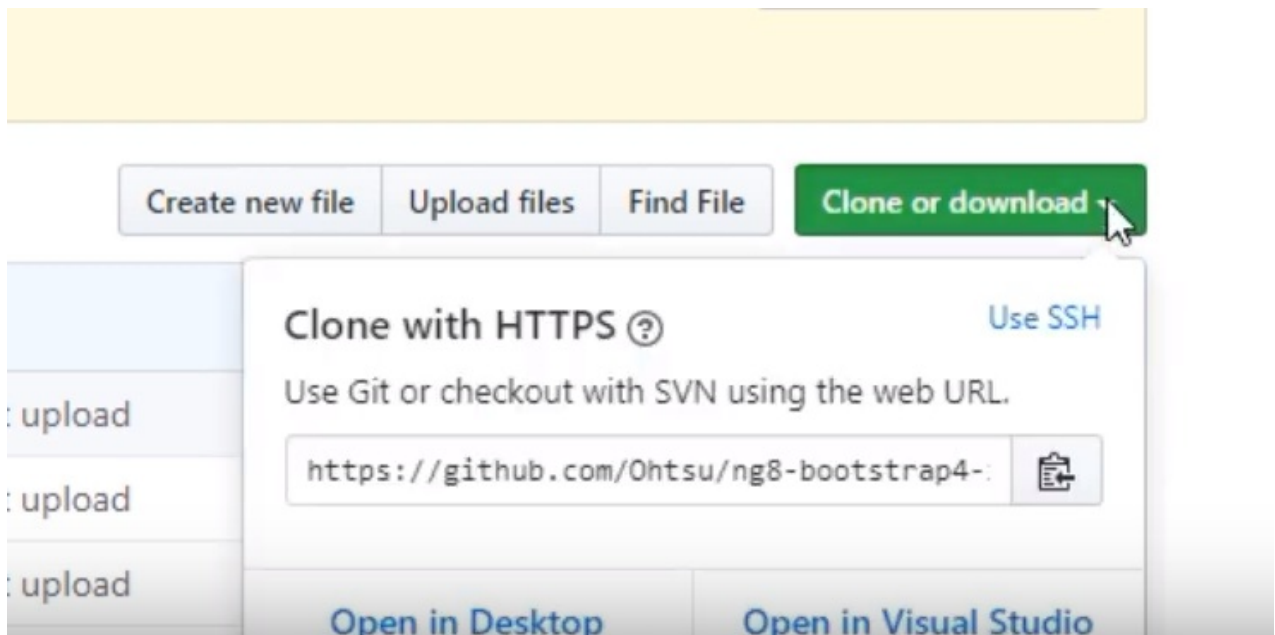
The URL is

`https://github.com/Ohtsu/ng8-bootstrap4-initial.`



When the page is displayed, click the green *Clone or download* button on the right.

Then the download address will be displayed, so click the copy icon on the right and copy the address.



Generate a project

Open a command prompt, move to a suitable directory, and paste the copied address in that directory,

following `git clone`. Type

```
git clone https://github.com/Ohtsu/ng8-bootstrap4-initial.git.
```

Then the download will start.

```
ohtsu@Tiger64: /mnt/c/_myprg/_test/_git$ git clone https://github.com/Ohtsu/ng8-bootstrap4-initial.git
Cloning into 'ng8-bootstrap4-initial'...
```

Launch Visual Studio Code

Next, enter the directory of the generated project,

```
cd ng8-bootstrap4-initial
```

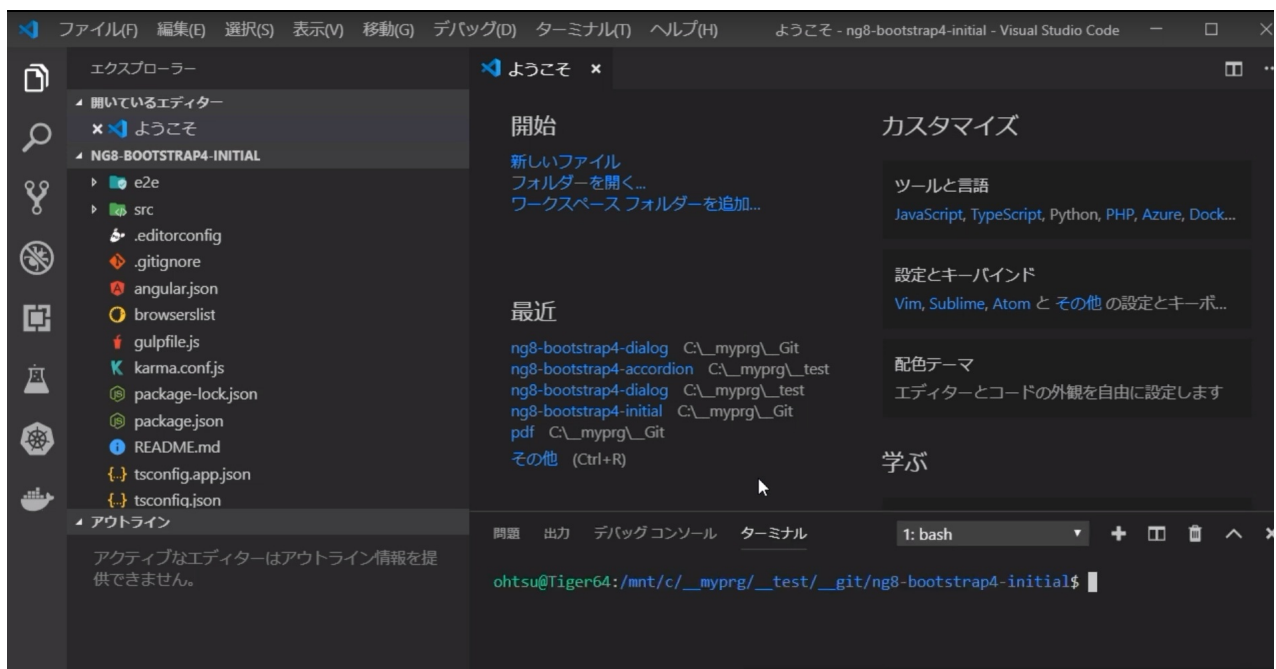
Start Visual Studio Code. Type

```
code .
```

```
$ cd ng8-bootstrap4-initial
/ng8-bootstrap4-initial$ code .
```

Once VSCode starts up,

Press `ctrl + `` to open a terminal window.

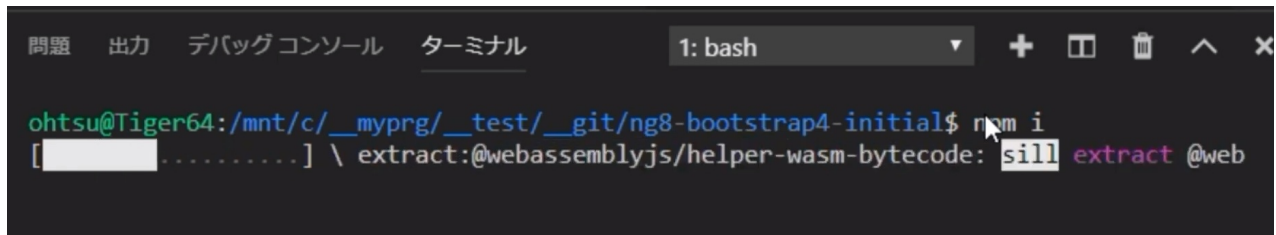


And type

`npm i`

to install the required libraries for the project.

This process takes some time.

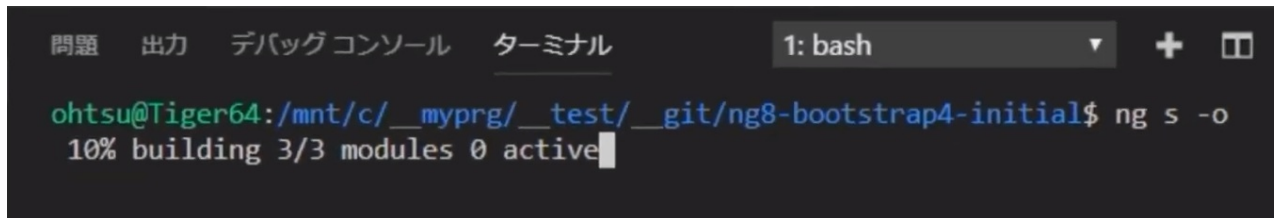
A terminal window with a dark background. The title bar shows tabs for '問題', '出力', 'デバッグコンソール', and 'ターミナル', with 'ターミナル' selected. The terminal text shows a user 'ohtsu' at 'Tiger64' in a directory path. They have entered the command 'npm i'. The output shows a progress bar and a message about extracting a file from a web source.

```
ohtsu@Tiger64:/mnt/c/_myprg/_test/_git/ng8-bootstrap4-initial$ npm i
[.....] \ extract:@webassemblyjs/helper-wasm-bytecode: sill extract @web
```

Confirming Project Launch

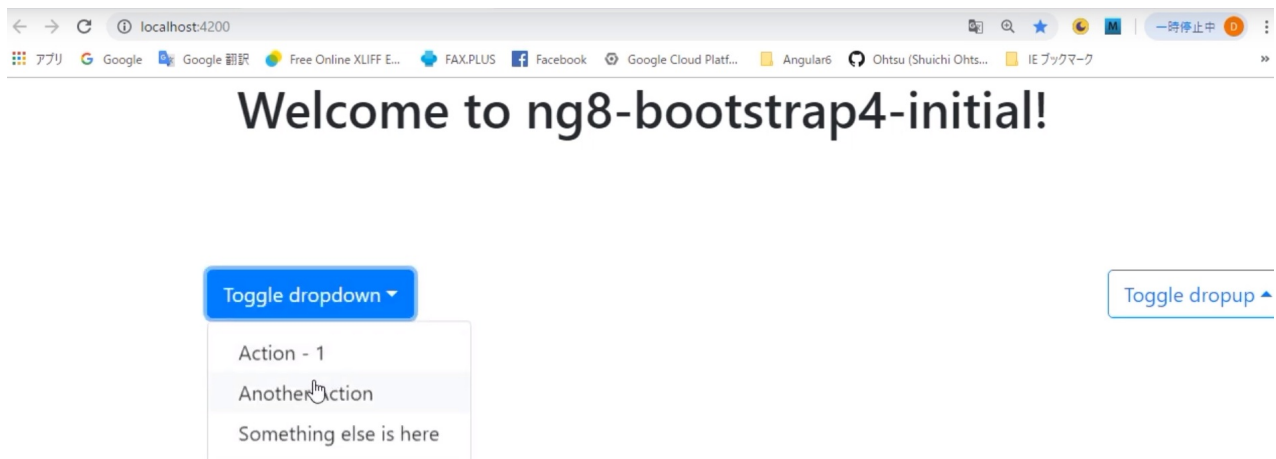
Next, check if the project can be launched. Type

`ng s -o.`

A terminal window similar to the one above. The user has entered the command 'ng s -o'. The output shows '10% building 3/3 modules 0 active' with a progress bar.

```
ohtsu@Tiger64:/mnt/c/_myprg/_test/_git/ng8-bootstrap4-initial$ ng s -o
10% building 3/3 modules 0 active
```

The browser will open automatically, with drop-downs and drop-ups.



OK.

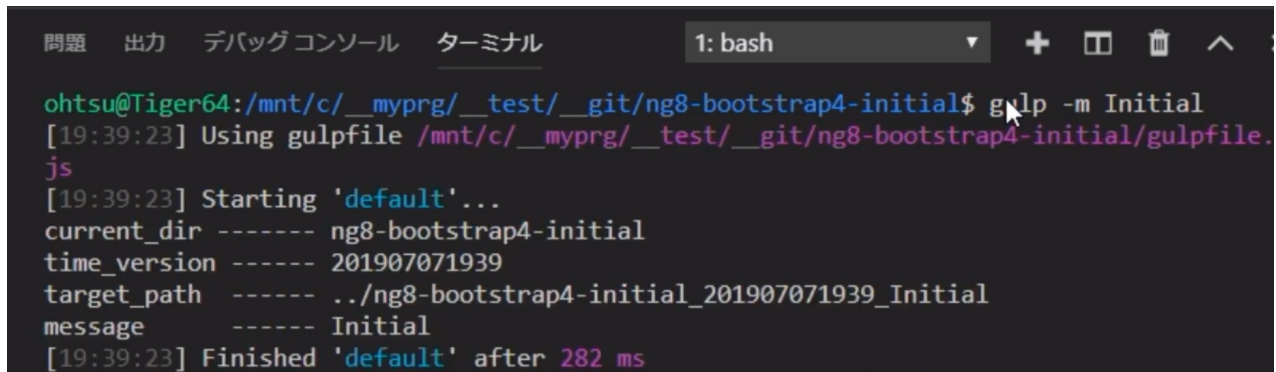
Create backup with Gulp

At this stage, make a backup of the source before change. However, since it is not necessary to back up related libraries, we are going to exclude files under `node_modules`.

Since I have already included `gulpfile.js` for such backup, we are going to execute it. Type

```
gulp -m Initial.
```

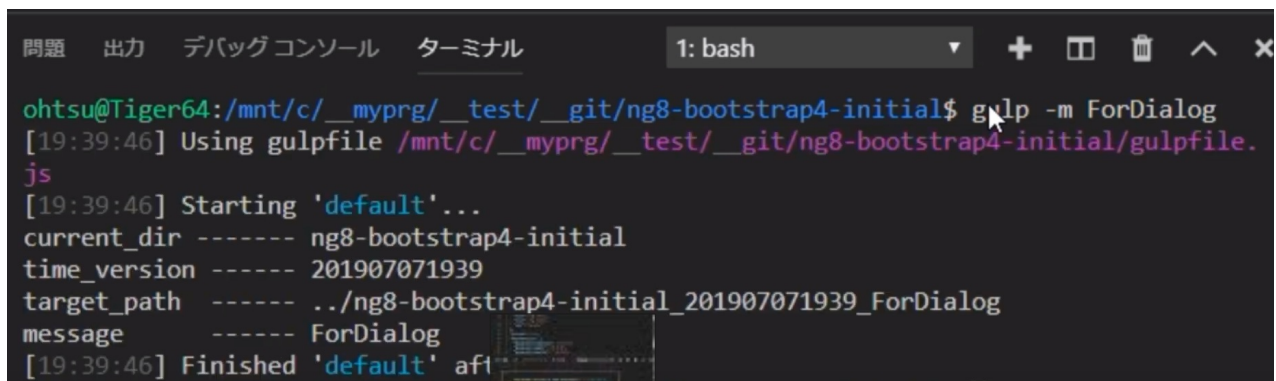
The `-m` option is the string to be added to the created project name.



```
ohtsu@Tiger64:/mnt/c/_myprg/_test/_git/ng8-bootstrap4-initial$ gulp -m Initial
[19:39:23] Using gulpfile /mnt/c/_myprg/_test/_git/ng8-bootstrap4-initial/gulpfile.js
[19:39:23] Starting 'default'...
current_dir ----- ng8-bootstrap4-initial
time_version ----- 201907071939
target_path ----- ../ng8-bootstrap4-initial_201907071939_Initial
message ----- Initial
[19:39:23] Finished 'default' after 282 ms
```

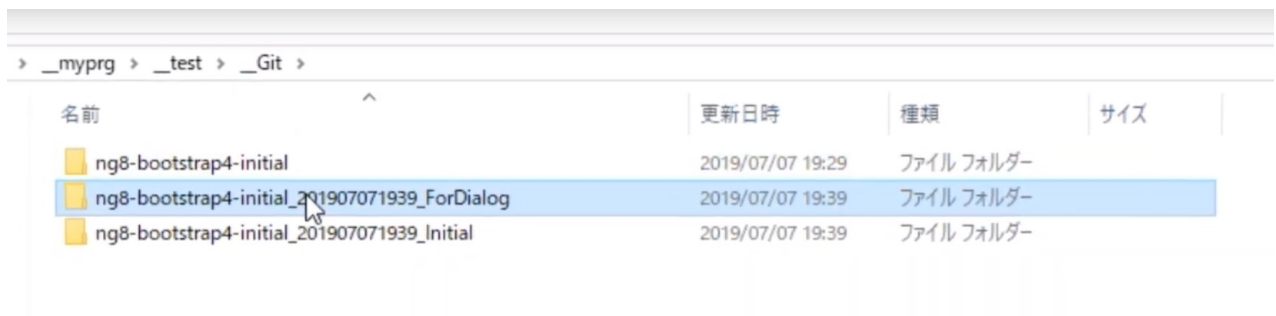
Next, create a project for Dialog test. Type

```
gulp -m ForDialog.
```



```
ohtsu@Tiger64:/mnt/c/_myprg/_test/_git/ng8-bootstrap4-initial$ gulp -m ForDialog
[19:39:46] Using gulpfile /mnt/c/_myprg/_test/_git/ng8-bootstrap4-initial/gulpfile.js
[19:39:46] Starting 'default'...
current_dir ----- ng8-bootstrap4-initial
time_version ----- 201907071939
target_path ----- ../ng8-bootstrap4-initial_201907071939_ForDialog
message ----- ForDialog
[19:39:46] Finished 'default' aft
```

Next, open the file explorer, copy the created Dialog test project together with the directory, and paste it into the appropriate directory.



And change the directory name to `ng8-bootstrap4-dialog`.

ng8-bootstrap4-accordion	2019/07/06 19:30	ファイル フォルダー
ng8-bootstrap4-fontawesome	2019/07/04 9:40	ファイル フォルダー
ng8-bootstrap4-fontawesome_201907040937_BeforeAddF...	2019/07/04 9:37	ファイル フォルダー
ng8-bootstrap4-dialog	2019/07/07 19:39	ファイル フォルダー

Then open a command prompt and change to this directory.

And type

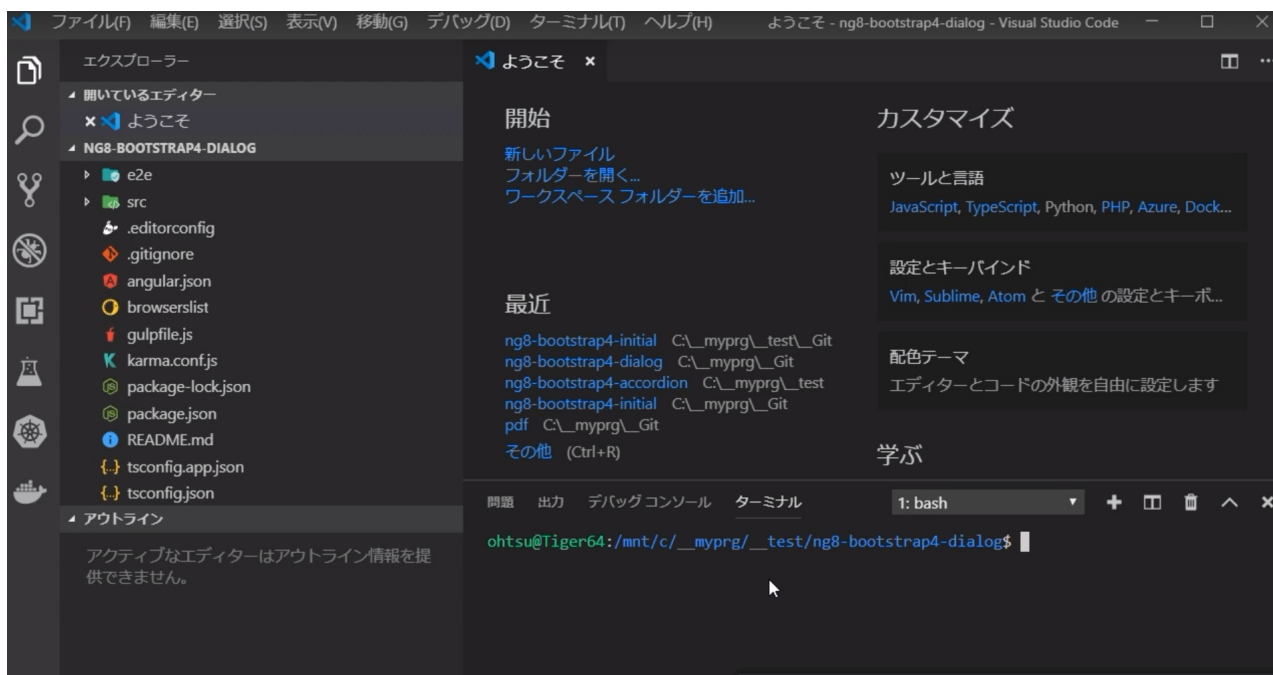
code .

to open VSCode.

```
$ cd ng8-bootstrap4-dialog
/ng8-bootstrap4-dialog$ code .
```

Once VSCode starts up,

Press `ctrl + `` to open a terminal window.



Change project name

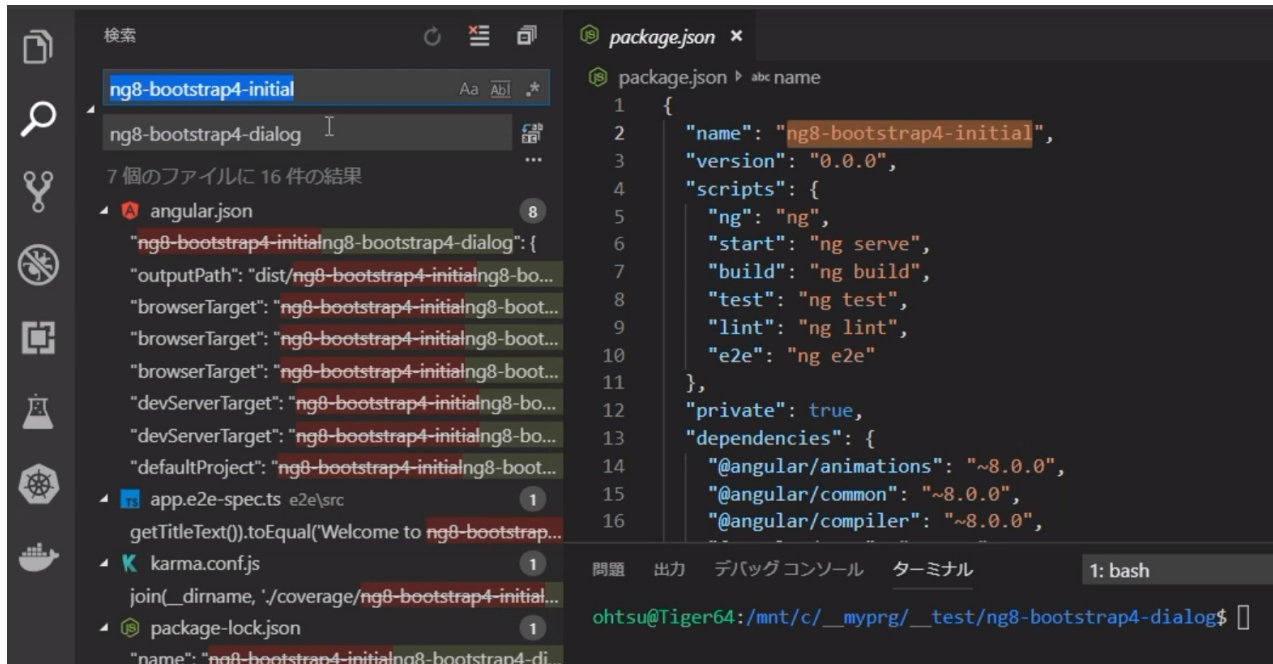
Next, we are going to change the contents of the project.

First, change the project name.

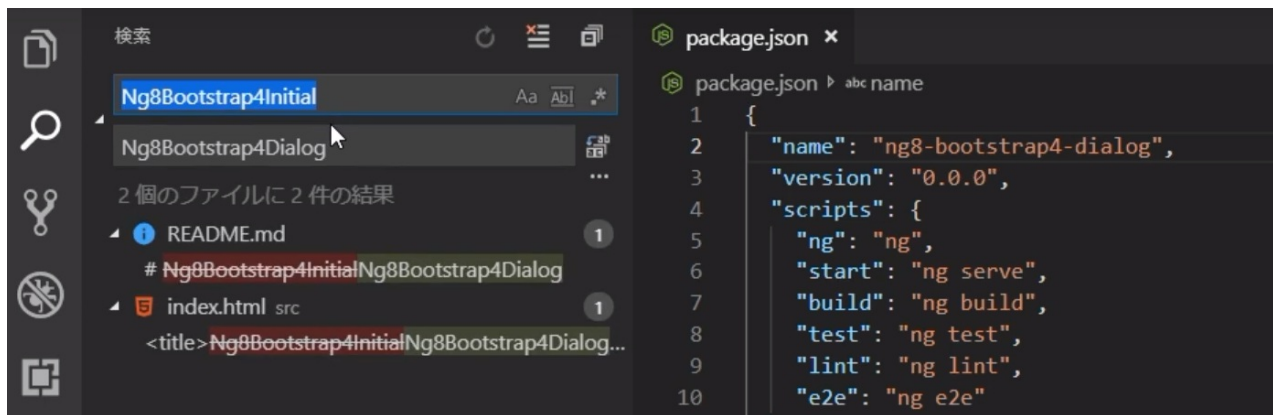
If you open the *package.json* file, you can see that the project name is `ng8-bootstrap4-initial`.

Change this to ng8-bootstrap4-dialog.

Click the search icon on the left to replace the source of the entire project.



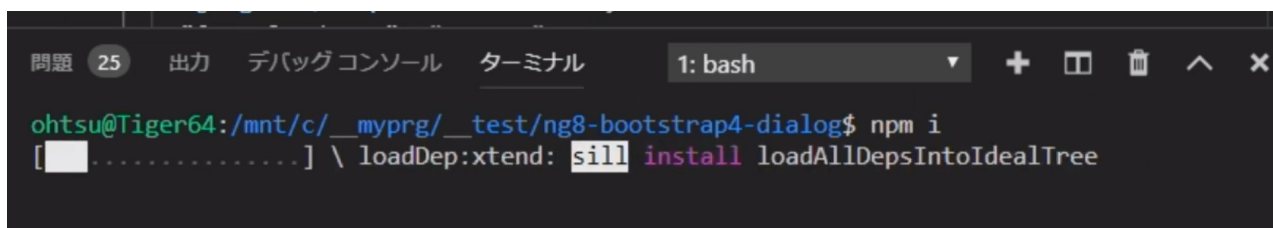
Next, there are Pascal cases, that is, they are separated by capital letters, not -, so change Ng8Bootstrap4Initial to Ng8Bootstrap4Dialog.



Next type

`npm i`

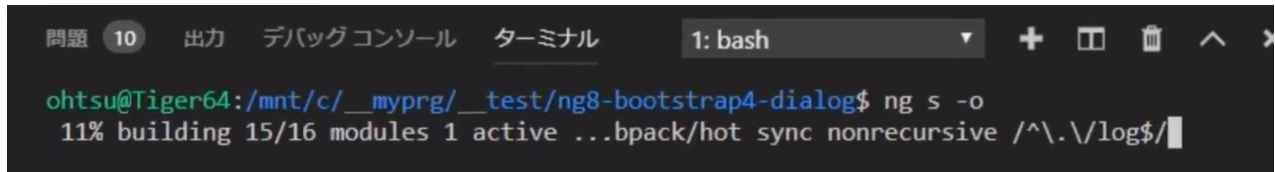
to install the library again.



This process takes some time.

Also check if the project can be launched. Type

```
ng s -o.
```



```
問題 10 出力 デバッグ コンソール ターミナル 1: bash
ohtsu@Tiger64:/mnt/c/___myprg/___test/ng8-bootstrap4-dialog$ ng s -o
11% building 15/16 modules 1 active ...bpack/hot sync nonrecursive /^\\.\\log$/
```

The browser will open automatically, with drop-downs and drop-ups.



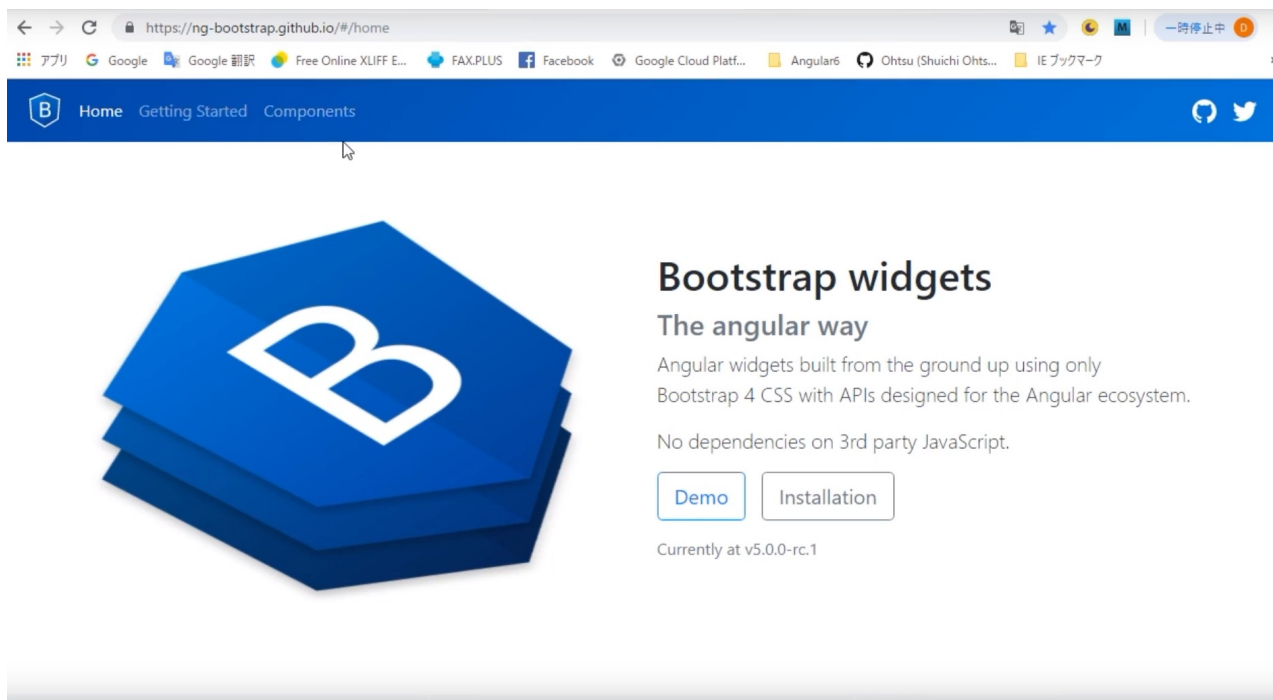
OK.

Add dialog

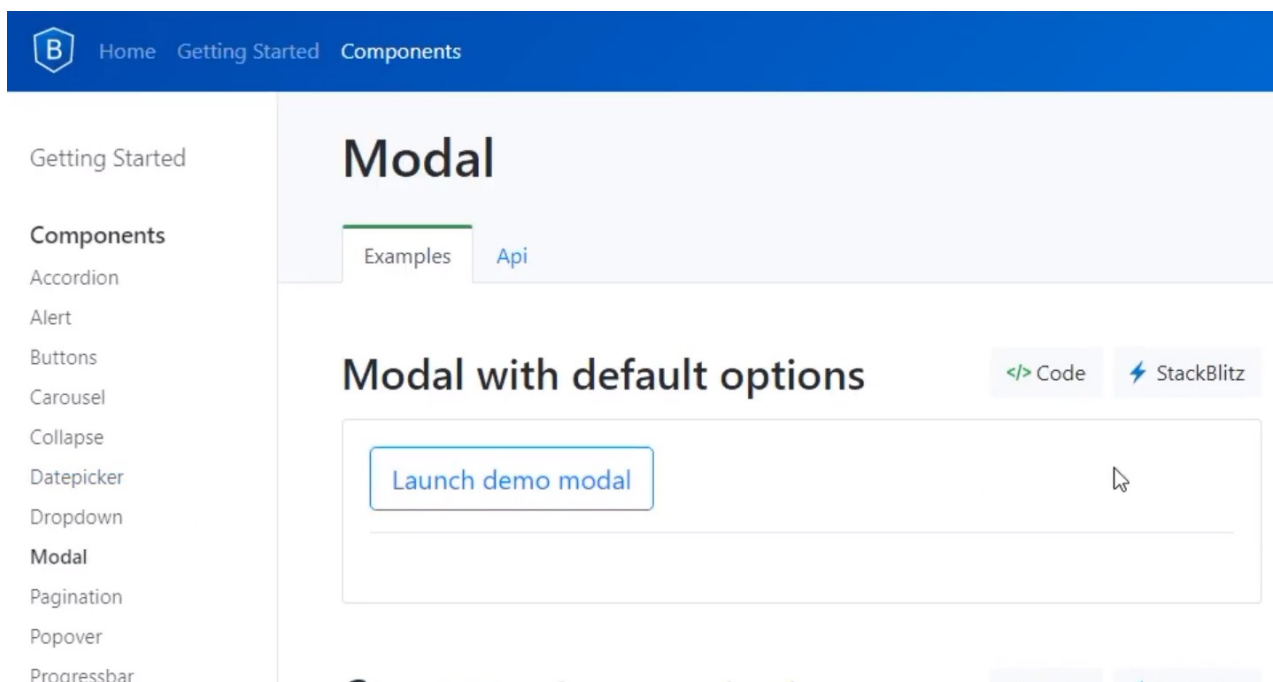
Next, open the *ng-bootstrap* site and browse to the sample program of the dialog.

The URL is

```
https://ng-bootstrap.gitgub.io/#/home.
```

Now click on the `Demo` button and click on `Modal` from the menu on the left.



The Modal sample is displayed, so let's start by incorporating the *Modal with default options* sample program from here into the Angular 8 project.

First, click on the `Code` button on the top right to display its source.

First, copy the HTML source.

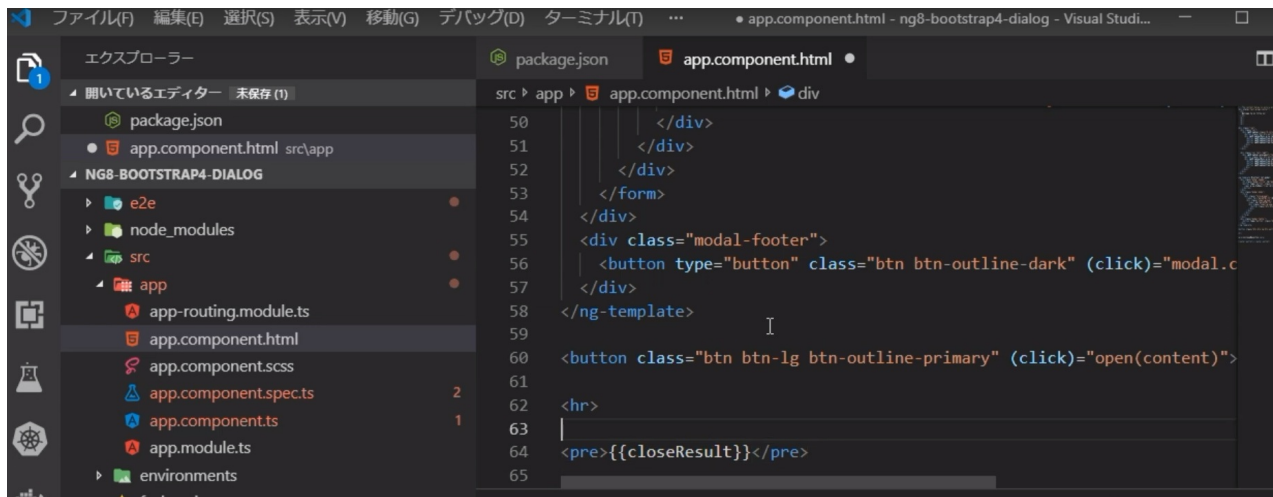
Modal with default options

[Code](#)[StackBlitz](#)

```
modal-basic.html modal-basic.ts

<ng-template #content let-modal>
  <div class="modal-header">
    <h4 class="modal-title" id="modal-basic-title">Profile update</h4>
    <button type="button" class="close" aria-label="Close" (click)="modal.d
      <span aria-hidden="true">&times;</span>
    </button>
  </div>
  <div class="modal-body">
    <form>
      <div class="form-group">
        <label for="dateOfBirth">Date of birth</label>
        <div class="input-group">
          <input id="dateOfBirth" class="form-control" placeholder="yyyy-mm
          <div class="input-group-append">
            <button class="btn btn-outline-secondary calendar" (click)="dp.
```

Go back to VSCode and open the *app.component.html* file in *src/app*.



```
package.json app.component.html
src > app > app.component.html > div
50 |
51 |   </div>
52 | </div>
53 | </form>
54 | </div>
55 | <div class="modal-footer">
56 |   <button type="button" class="btn btn-outline-dark" (click)="modal.c
57 | </div>
58 | </ng-template>
59 |
60 | <button class="btn btn-lg btn-outline-primary" (click)="open(content)">
61 |
62 | <hr>
63 |
64 | <pre>{{closeResult}}</pre>
65 |
```

Paste the copied HTML here.

Also, comment out pull-down and pull-up related parts.

Return to the browser and open the file of TypeScript.

Modal with default options

[Code](#)[StackBlitz](#)

```
modal-basic.html modal-basic.ts

import {Component} from '@angular/core';

import {NgbModal, ModalDismissReasons} from '@ng-bootstrap/ng-bootstrap';

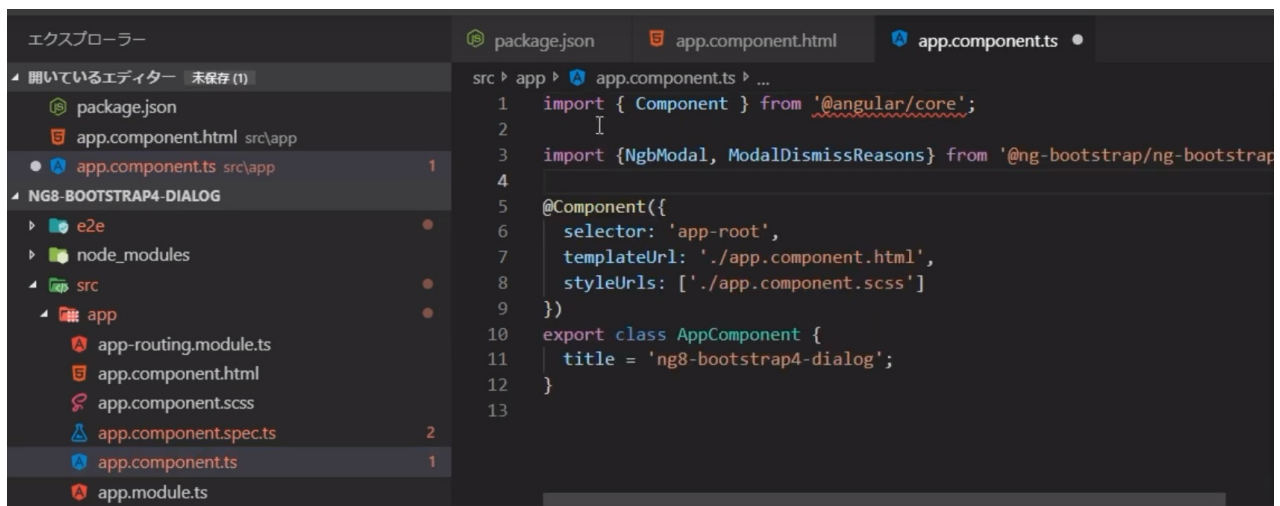
@Component({
  selector: 'ngbd-modal-basic',
  templateUrl: './modal-basic.html'
})
export class NgbdModalBasic {
  closeResult: string;

  constructor(private modalService: NgbModal) {}
}
```

First of all, it is necessary to add an import part.

Go back to VSCode and open the *app.component.ts* file in *src/app*.

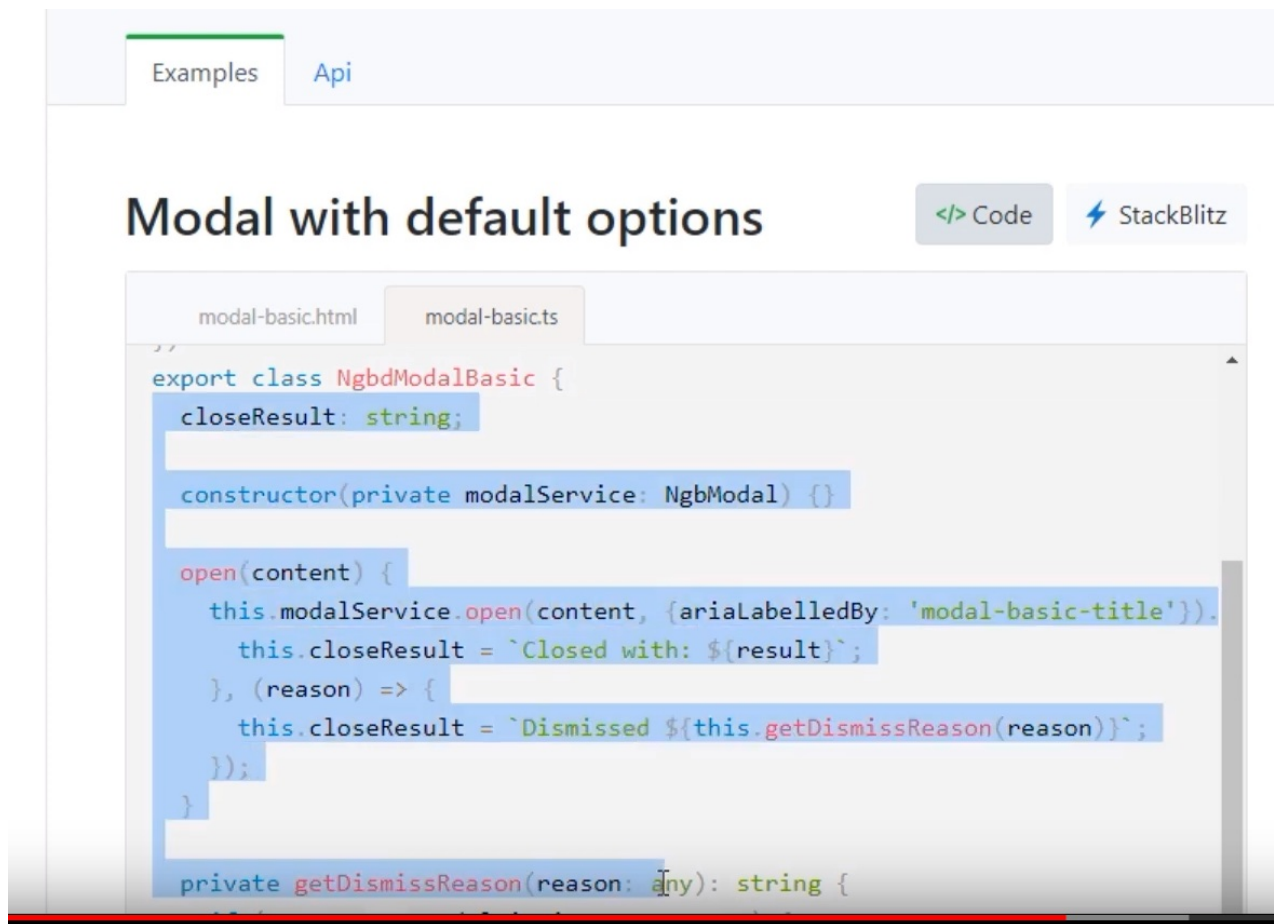
Paste the copied import part here.



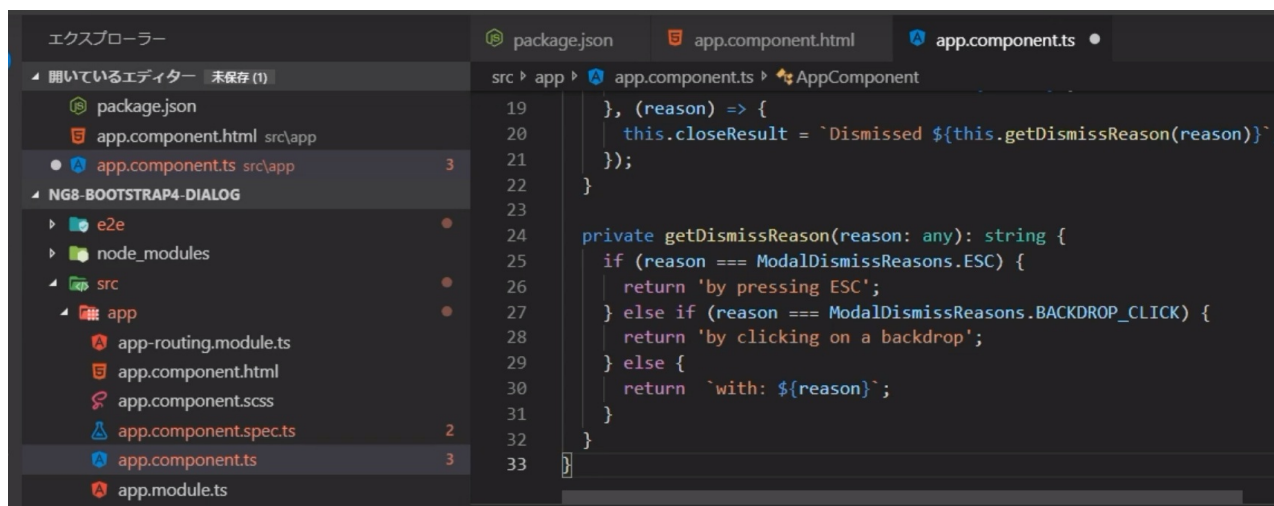
```
package.json app.component.html app.component.ts

src > app > app.component.ts > ...
1 import { Component } from '@angular/core';
2
3 import {NgbModal, ModalDismissReasons} from '@ng-bootstrap/ng-bootstrap';
4
5 @Component({
6   selector: 'app-root',
7   templateUrl: './app.component.html',
8   styleUrls: ['./app.component.scss']
9 })
10 export class AppComponent {
11   title = 'ng8-bootstrap4-dialog';
12 }
13
```

Return to the browser and copy the main part in the class.



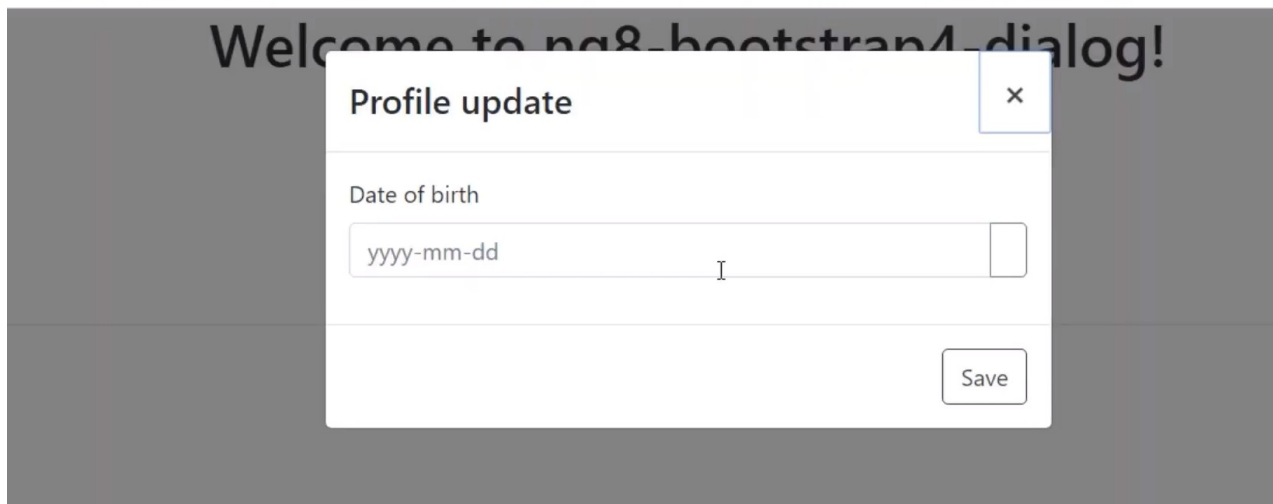
Go back to VSCode, open the `app.component.ts` file and paste the part you copied into the class here.



Display the dialog

Now go back to your browser and open `http://localhost:4200`.

When you click the *Launch demo modal* button, a dialog is displayed.



In the *Date of birth* input field, the date picker will be displayed, clicking on the *Save* button will close the dialog and display `Closed with: Save click` on the screen.

Welcome to ng8-bootstrap4-dialog!

Launch demo modal

Closed with: Save click

OK.

Getting date data

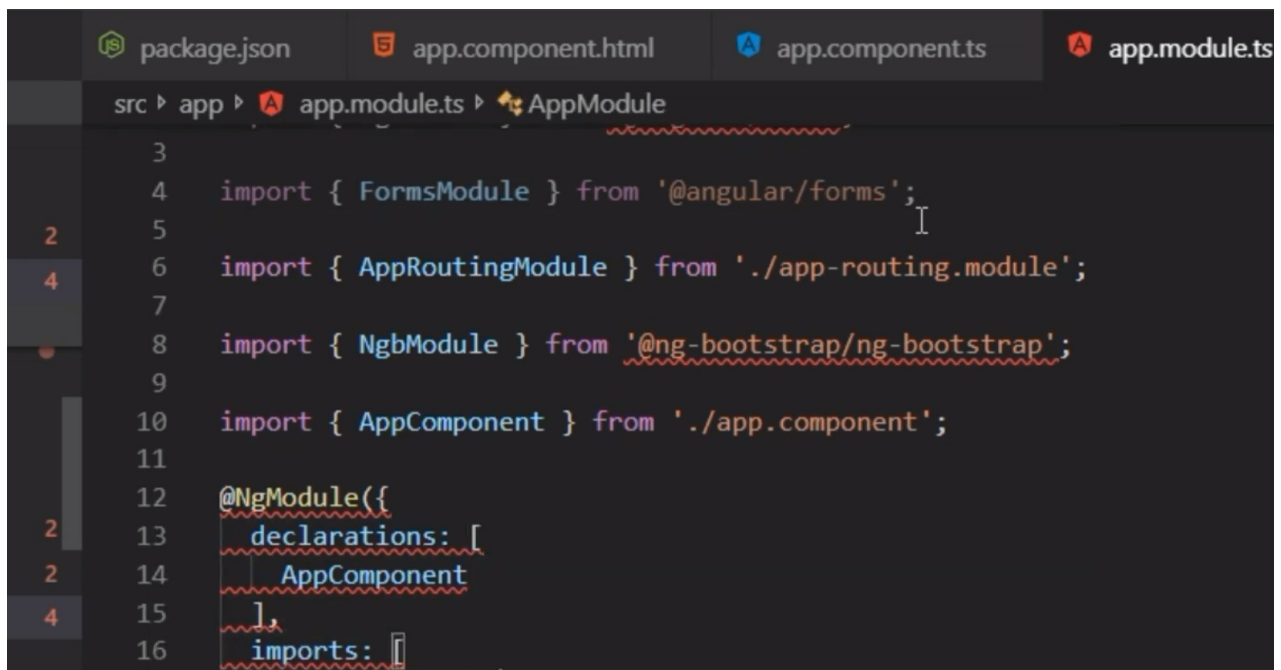
The above is the same contents as the sample program, but it is meaningless if you can not obtain the data even if you specify the date with the date picker.

Therefore, we are going to modify it so that we can get date data.

Therefore, we will use the two-way data binding of `ngModel`.

To do this, we first need to import `FormsModule`.

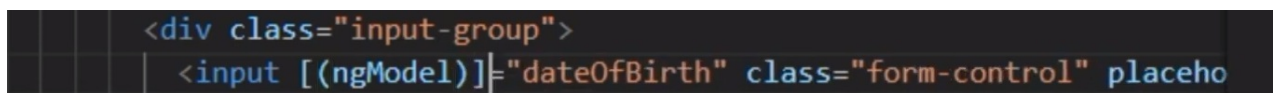
Go back to VSCode, open the `app.module.ts` file and import `FormsModule`.



```
src > app > app.module.ts > AppModule
3
4 import { FormsModule } from '@angular/forms';
5
6 import { AppRoutingModule } from './app-routing.module';
7
8 import { NgbModule } from '@ng-bootstrap/ng-bootstrap';
9
10 import { AppComponent } from './app.component';
11
12 @NgModule({
13   declarations: [
14     AppComponent
15   ],
16   imports: []
```

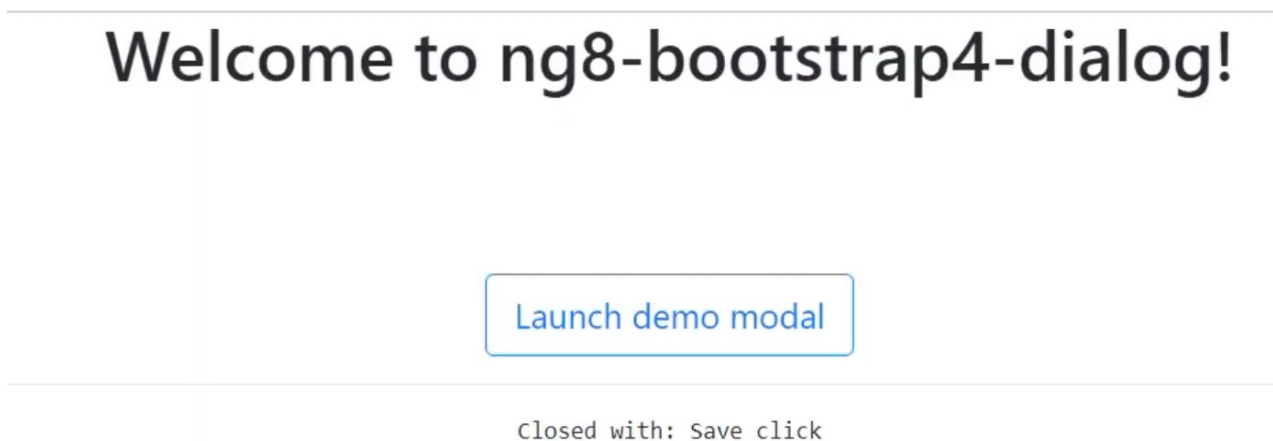
Next, open the `app.module.html` file and delete the comment out part.

Next, specify `[(ngModel)]` in the part where the date is being input so that input data can be acquired.



```
<div class="input-group">
  <input [(ngModel)]="dateOfBirth" class="form-control" placeholder="date of birth" />
</div>
```

Return to the browser, display a dialog and specify the date.



However, since we cannot know whether the data can be acquired if it is as it is, we are going to modify it to display the data on a screen.

Return to VS Code, open the `app.module.html` file, and insert

```
<pre> {{dateOfBirth | json}} </pre>
```

This means that the acquired data is displayed in json format.


```

39
40 <pre>{{closeResult}}</pre> I
41 <pre>{{dateOfBirth | json}}</pre>

```

Return to the browser, display a dialog and specify the date. You can see that the specified date data has been obtained.

Launch demo modal

Closed with: Save click

```

{
  "year": 2019,
  "month": 7,
  "day": 20
}

```

OK.

Finally, add a cancel button.

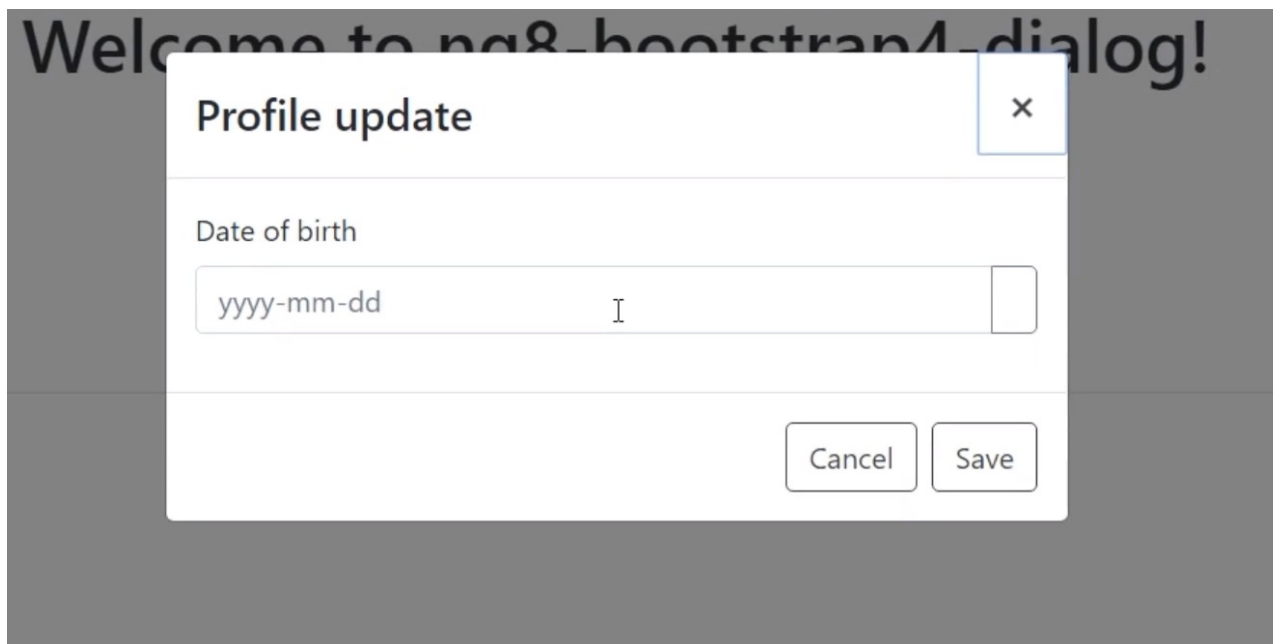
Go back to VSCode and rewrite the `modal.footer` part.

```

30
31
32 "btn btn-outline-dark" (click)="modal.dismiss('Cancel click')">Cancel
33 "btn btn-outline-dark" Cancel
34

```

Return to your browser and check. A Cancel button will be displayed, and if you click that button, you will see Closed with: Cancel click on the screen.



Launch demo modal

Dismissed with: **cancel click**

OK.

Reference

- "Angular8におけるBootstrap4環境の設定方法(Youtube)",
<https://youtu.be/gFxuSi4IZjM>
- "How to set up Bootstrap 4 environment in Angular 8",
<https://youtu.be/NoSkIVvf5o8>
- "Angular8におけるBootstrap4環境の設定方法(Qiita)",
<https://qiita.com/SOhtsu/items/62253bb2309c9a4809fd>
- "Angular 7 Bootstrap 4 UIs: ng-bootstrap and ngx-bootstrap [Part 1]",

<https://www.techiediaries.com/angular-bootstrap-ui/>

- "Angular5, Angular6, Angular7 Custom Library: Step-by-step guide",
<https://www.udemy.com/angular5-custom-library-the-definitive-step-by-step-guide/>
- "Angular5, Angular6, Angular7用 カスタムライブラリの作成: 完全ステップ・バイ・ステップ・ガイド",
<https://www.udemy.com/angular5-1/>