

***Narration&Reference* Realization of Tree function by Angular Material in Angular 7**

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Realization of Tree function by Angular Material in Angular 7

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Required environment

In this video, I will show you how to create Tree with Angular Material in Angular7.

Tree is a tool for displaying hierarchical data.

The most frequently used case is to display the directory structure.

When you open a directory, there are files and more directories in it.

Opening that child directory is suitable for representing a nested structure such as having files and more directories in it.

Using Angular Material, you can easily create a model of that Tree.

In the explanation below, Angular 7 must be installed in the system, so please install it beforehand if you have not installed it yet.

Also, in Angular 7, by typing `ng new [Project Name]`, please prepare your own project in advance.

Once the project is created, go to that project directory.

Here, the project is `ng7MaterialTree`.

Then type `code .` to start the Visual Studio Code.

Installation of Angular Material

When the VS Code starts up, use the `Control + BackApostrophe` key to open the terminal window.

Then type `ng add @angular/material` to install Angular Material.

Then we have an inquiry about the color combination theme, so here we select the standard `indigo-pink`.

Next, since there is a question as to whether or not to set HammerJS, enter `y`.

Finally, since there is a question as to whether or not to use animation, enter `y`.

Then, re-editing such as `Package.json` file is done and installation is completed.

Generating an Tree

First, open the Angular Material Schematics <https://material.angular.io/guide/schematics> page in your browser.

Then it displays the *Tree schematic* section, and that command line

```
ng generate @angular/material:tree <component-name>
```

Copy this line.

Return to the VS Code and paste it on the command line.

You set the component name yourself appropriately.

I made it as a component name `mytree` here.

This generation is over soon.

After checking the source, you can see that a new `mytree` directory has been created.

Next, open the `mytree.component.ts` file in this directory and copy the selector name.

Here, it is *app-mytree*.

Next, open the `app.component.html` file and paste it as a tag on the bottom line.

Comment out all default HTML sentences.

Save this file.

Next, in the terminal window, enter `ng s -o` to start the local server and open the browser.

A page such as Explorer will be displayed, so click the folder icon.

Then the contents will be expanded.

A template of Tree was created.

It is OK.

Thank you for your watching.

Reference

- "Schematics",
<https://material.angular.io/guide/schematics>
- "Angular Update Guide",
<https://update.angular.io/>
- "Version 7 of Angular—CLI Prompts, Virtual Scroll, Drag and Drop and more",
<https://blog.angular.io/version-7-of-angular-cli-prompts-virtual-scroll-drag-and-drop-and-more-c594e22e7b8c>
- "Angular5,Angular6,Angular7 Custom Library: Step-by-step guide",
<https://www.udemy.com/angular5-custom-library-the-definitive-step-by-step-guide/>
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<https://www.udemy.com/angular5-l/>