# Angular Best Friends

## Module 2 Demo 1 – Container presentation

### Outcome

The purpose of this demo is to showcase the container presentation pattern and the key differences to the child component pattern. During the demo, the instructor will showcase some key aspects starting from a pre built application. No code will be written during the demo.

### Steps

1. Go to “***src > app > customers***”. This is the customers features wrapped in its own module.
2. Show the ***customers.module.ts*** file which defines the feature module. Briefly discuss what’s in there
3. Show the ***customers-routing.module.ts*** file which holds the customers routing module. Briefly show what’s in there.
4. Show that there is only one component in the root of the module.
5. Show the ***customers.component.html*** file.
6. Highlight and show how **cm-customers.card** and **cm-customers.grid** components are placed on the template. This is a fairly normal procedure in Angular where we have one parent component in which we display child component content using the appropriate selectors.
7. However, notice here how we pass the customers to the child components using input properties. Highlight the input properties.
8. Go to the **customer-grid.component.ts** file. This one of the components displayed on the root template. Show that there’s not much going on in this component’s code.
9. Go to the **customer-card.component.ts** file and show the same thing.
10. Explain that this is because these components are following the container presentation pattern. In our case the customers component is the container. It retrieves data and it does the heavy lifting. It then passes the data to the presentation components that simply render the same data in the browser. Then talk about advantages of the approach
11. The first advantage is that I am retrieving data only once.
12. Second advantage is that we don’t have tremendous amount of HTML in the container template.
13. Run the application and show how it works from a user’s experience
14. The show the child routes pattern by clicking on one of the customers.
15. Take note of the “Customer details”, “Customer orders” and “Edit customer” tabs.
16. For these we are using child routes. If I click on “Customer orders” this will change the URL and display the router outlet for the customer orders route. In this case each child component is fetching the data it needs.
17. We could have also used the container presentation pattern here but in this case a user would not be able to bookmark each of the tabs.
18. So one thing we need to think about from an architectural standpoint is do we want to use container presentation or do we want to use child routes instead? We would need to take all pros and cons into consideration.