**Dynamic Notification example Project**

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**Analyzing the 1st code example ‘Notification’ of the post:**

<https://medium.com/@damodara.puddu/when-to-use-angulars-dynamic-components-ce40db069359>

<https://stackblitz.com/edit/angular-ivy-jeeyyy?file=src%2Fapp%2Fapp.component.ts>

**Components and Services**

**AppComponent**

It accesses the **NotificationService** and passes in it the **WarningComponent** for new dynamic notification instantiation, upon button click.

this.notificationService.newNotification(WarningComponent);

**WarningComponent**

This is the ‘dynamic’ component (or any other component of the same type) that it will be the dynamic component. The one that it is dynamically loaded.

It actually does nothing but offers only itself as content

**NotificationComponent**

Acts as host/parent/container component of the **WarningComponent** ‘dynamic’ component (Or any other component). In its template, it uses a template reference variable (the ‘#notificationTemplate’) inside a ng-template pair of tags.

It accesses its child-component view-container the via the *ViewContainerRef*.

It creates/instantiates its child-component in the AfterViewInit lifehook.

It has also responsibility for closing itself (the whole component including its child component in ng-template) upon the click event on the X icon.

Note: It is created/instantiated only via the **NotificationService**, i.e. via the click of the button in the **AppComponent**, which also passes the child component type.

**NotificationService**

It deals only with the **NotificationComponent** component. It creates/instantiates it. But it also assigns its property: childComponentType. Then the **NotificationComponent** instantiates it (in the AfterViewInit lifehook) for the notificationTemplate template reference/anchor.

NotificationComponent

NotificationService

AppComponent

WarningComponent

WarningComponent

WarningComponent

Notes:

* Even the NotificationComponent has a selector ('notification'), its selector is not used. Since it is an overlay, it should be displayed on top of the template of the component that triggers it. In the example case it is on top of the AppComponent template. Its position on the host template is define in its stylesheet with the :host pseudo-class selector.
* The Type of the dynamic component (which is the WarningComponent in this example) is agnostic and can be substituted with any other component.

**Create the project from scratch**

Within the /Users/DEV/PROJ/AngularProjects2/3rd-party-examples/ folder.

ng new dynamic-notification

cd dynamic-notification

ng g c notification

ng g c warning

ng g s notification/notification

npm i font-awesome

