Logols Learning

WEEKEND WEB DEVELOPMENT BOOT CAMP
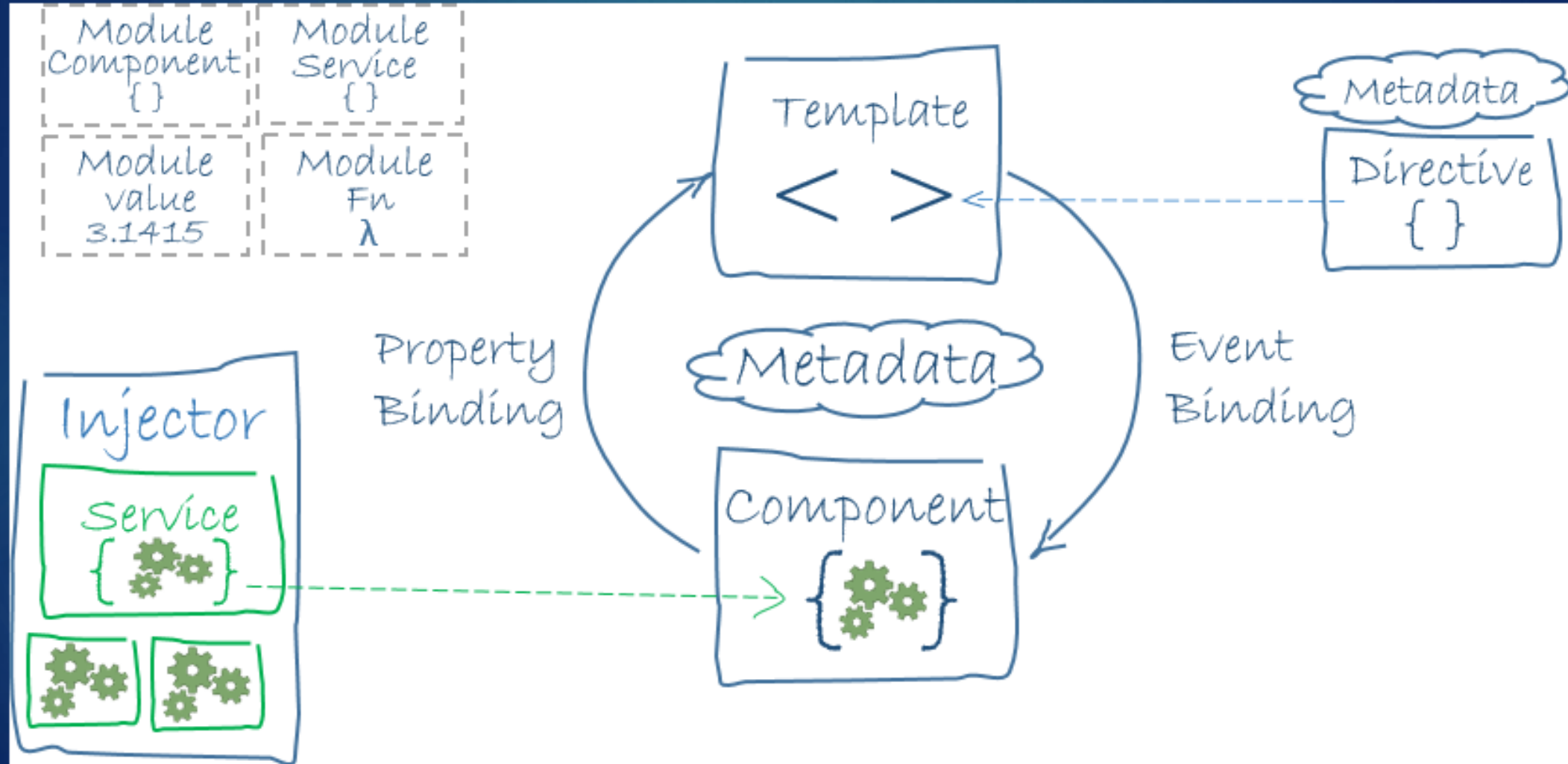
TRAINING: ANGULAR

Architecture of Angular?

- Modules
- Component
- Templates
- Directives
- Services

Architecture of Angular

Angular CLI

- Install Angular CLI
  - npm install –g @angular/cli
- Create a new Angular App
  - ng new [app-name]
- Change Directory
  - cd [app-name]
- Run the Application
  - ng serve

Modules

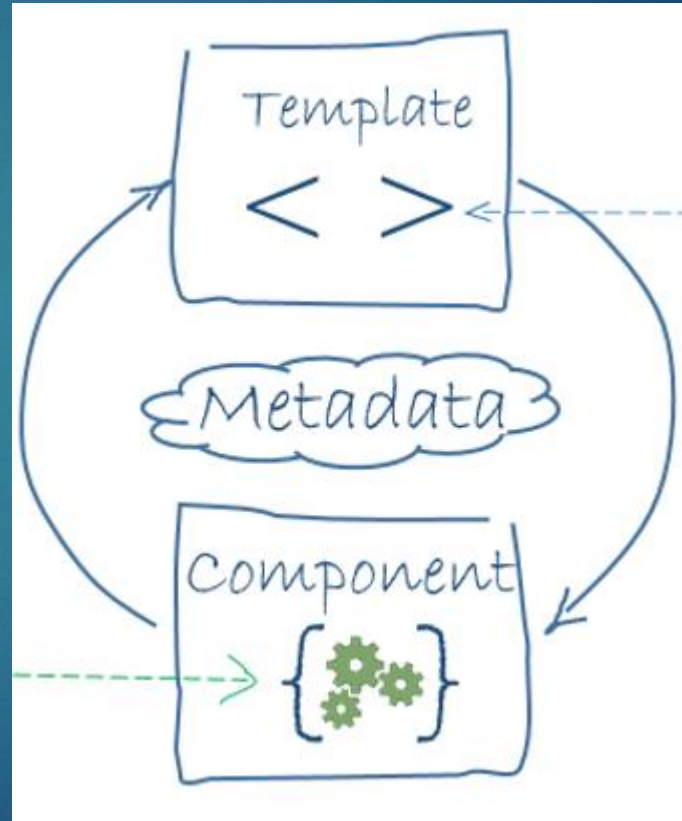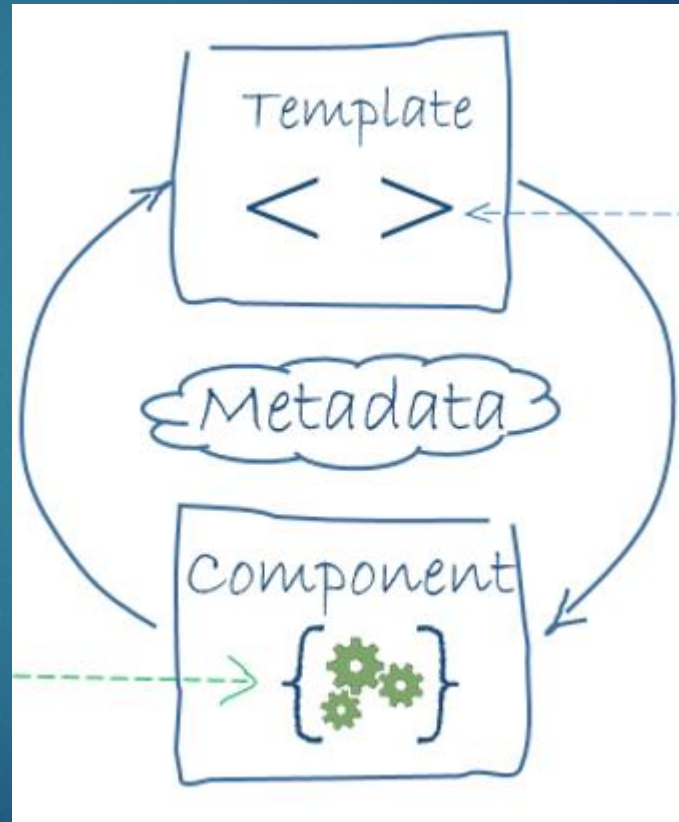- ▶ Define the Components
- ▶ Root Module
- ▶ Feature Modules

Components
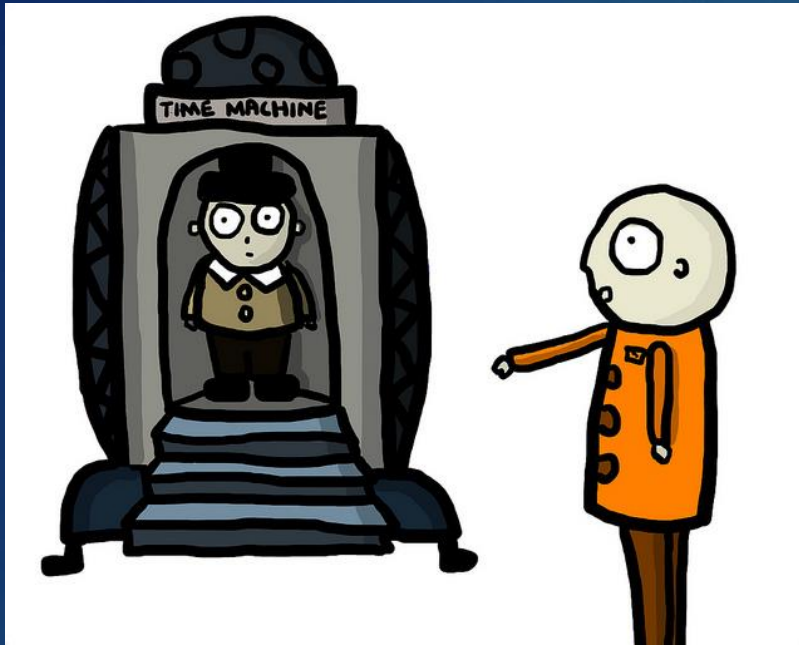
- Defines the Template
- Defines the Class
- Adds Metadata as needed

Templates

- ▶ Defines the html
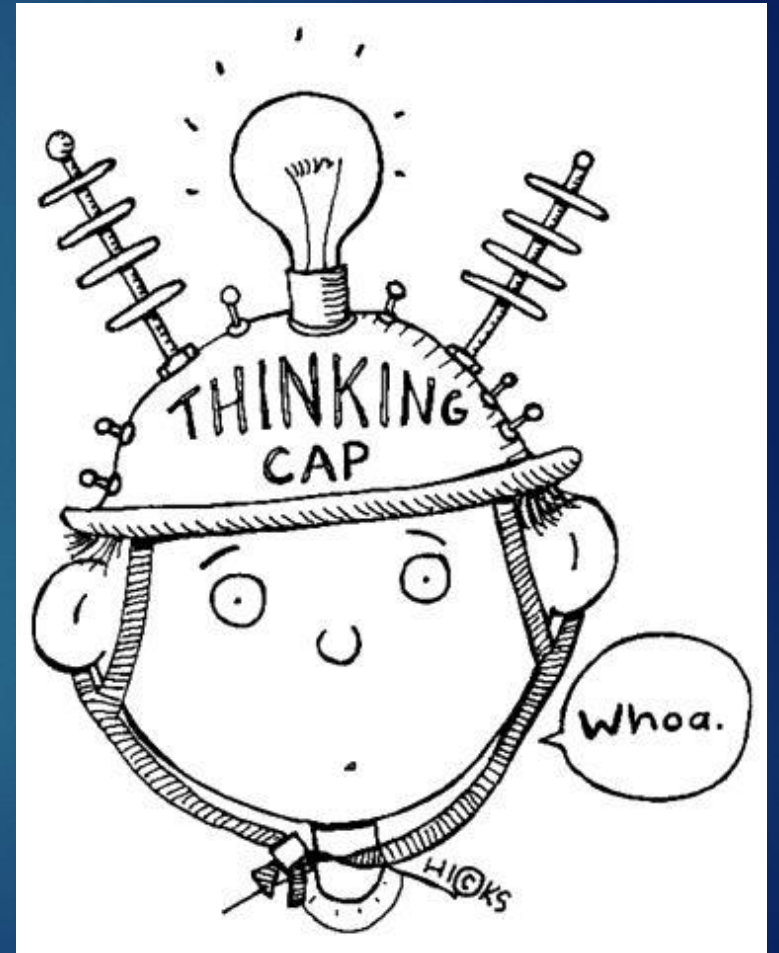- ▶ Can be inline of the component
- ▶ Or in a separate html file

EXAMPLE

ANGULAR COMPONENTS AND TEMPLATES

ASSESSMENT

ANGULAR COMPONENTS AND TEMPLATES

Assignment

- Add the status report into Angular.
- Create a new component and html template for your zombie report.
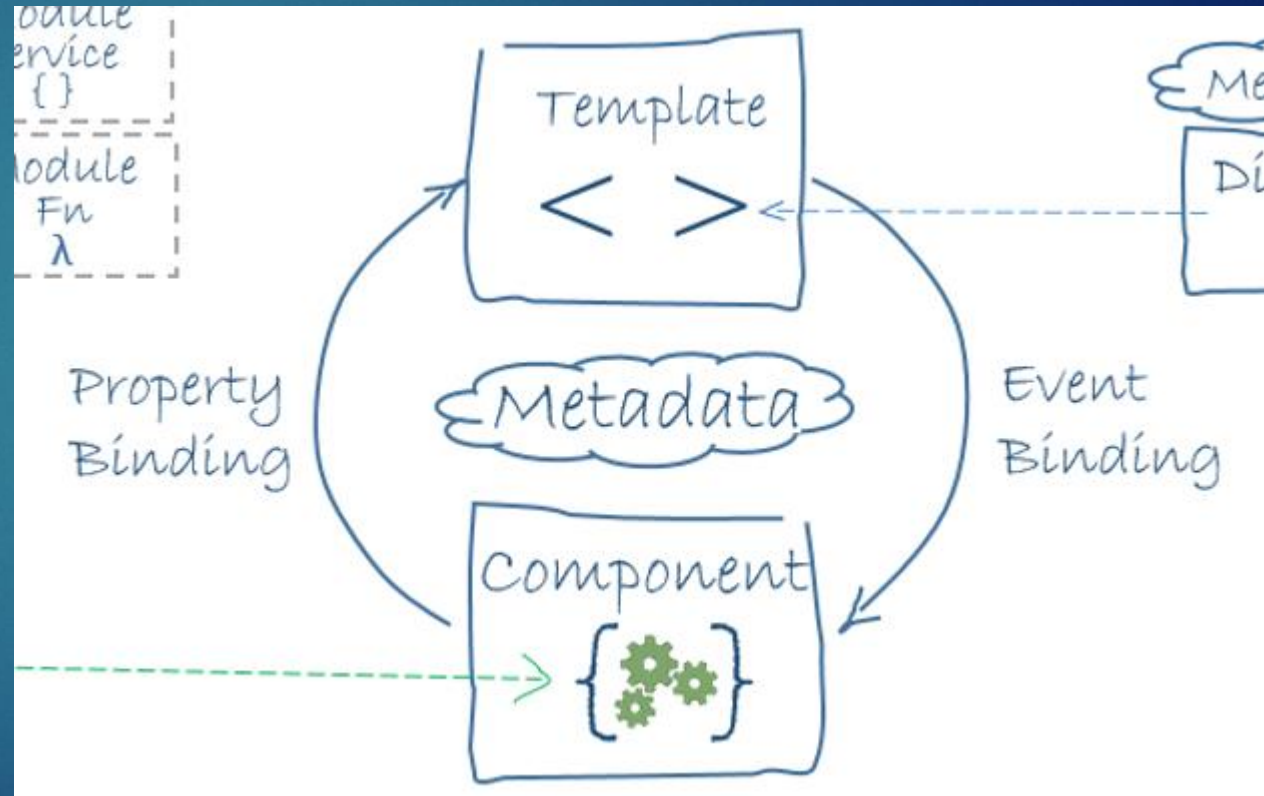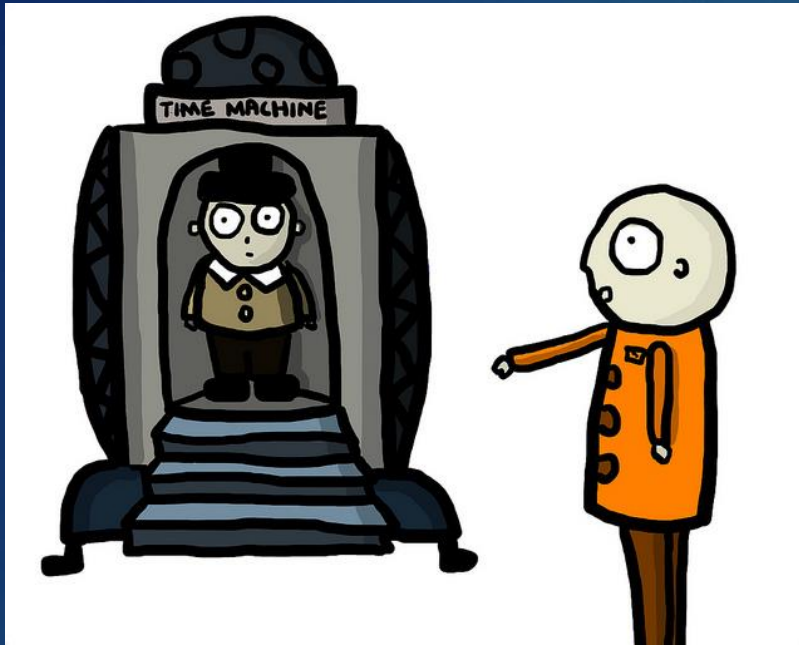 - Add the report html that you created before into the html template.

Directives

- Custom extended HTML element
- ngIf – conditional elements
- ngFor – elements created in a loop
- ngClass – conditionally add classes

Data Binding

- Interpolation
- One-way binding (unidirectional)
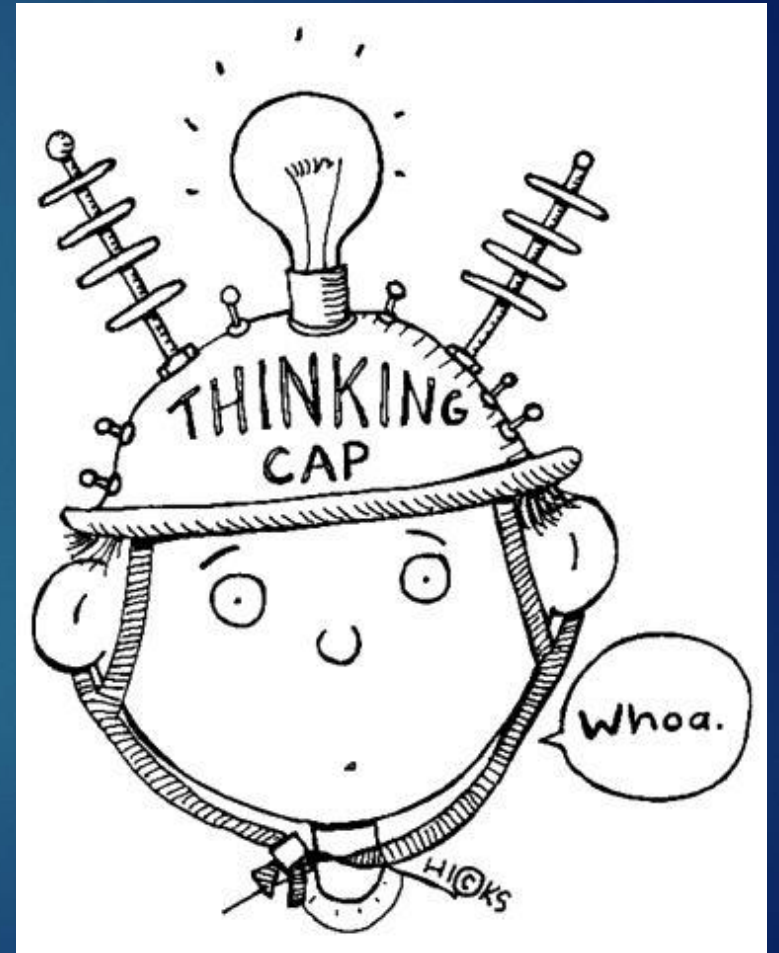- Two-way binding
- Event binding

EXAMPLE

ANGULAR BINDING

ASSESSMENT

ANGULAR BINDING

Assignment

- ▶ Add a property into the component for the title.

- ▶ Use interpolation to show the value of the property for the title.

- ▶ Create a class that defines a status report line named PersonStatus with properties: firstName, lastName, statusId, statusDescription.

- ▶ Create a property with an array of PersonStatus objects.

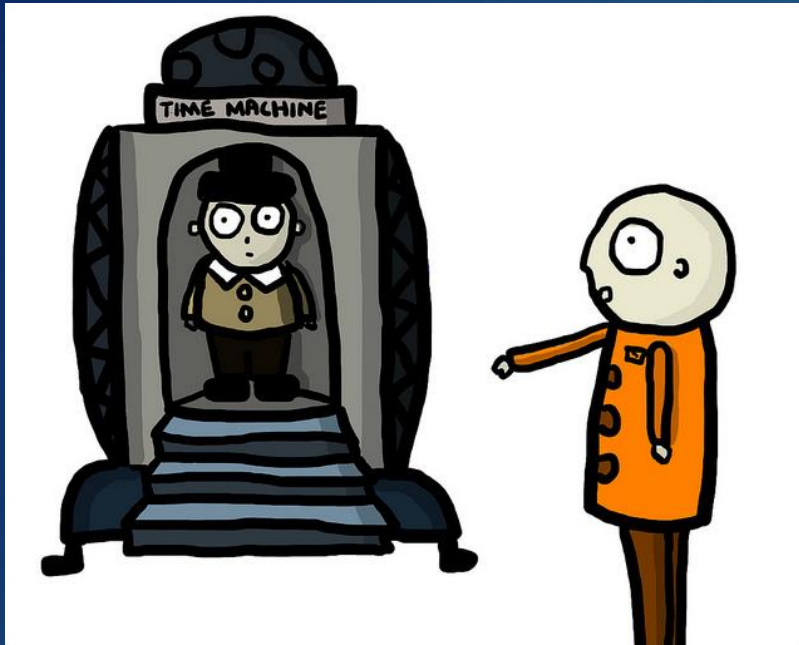- ▶ Use the ng-for directive to display array data in the table.

Angular Binding Exercises

- **Extend the Previous Exercise**
  - Add a property into the component.
  - Use interpolation to show the value of the component.
  - Create a property with an array value.
  - Use the ng-for directive to display array data.
  - Bind an event. Have the event change the property that is shown with interpolation.
  - Create a new class and add it as a property.
  - Bind the class using two way binding.

Routing/Navigation

- Define routes in the module file
- Use the following syntax in the template to link to a route:
  - <a [routerLink] = "[route path]">Description
- Use router-outlet element to specify location of the rout in the template
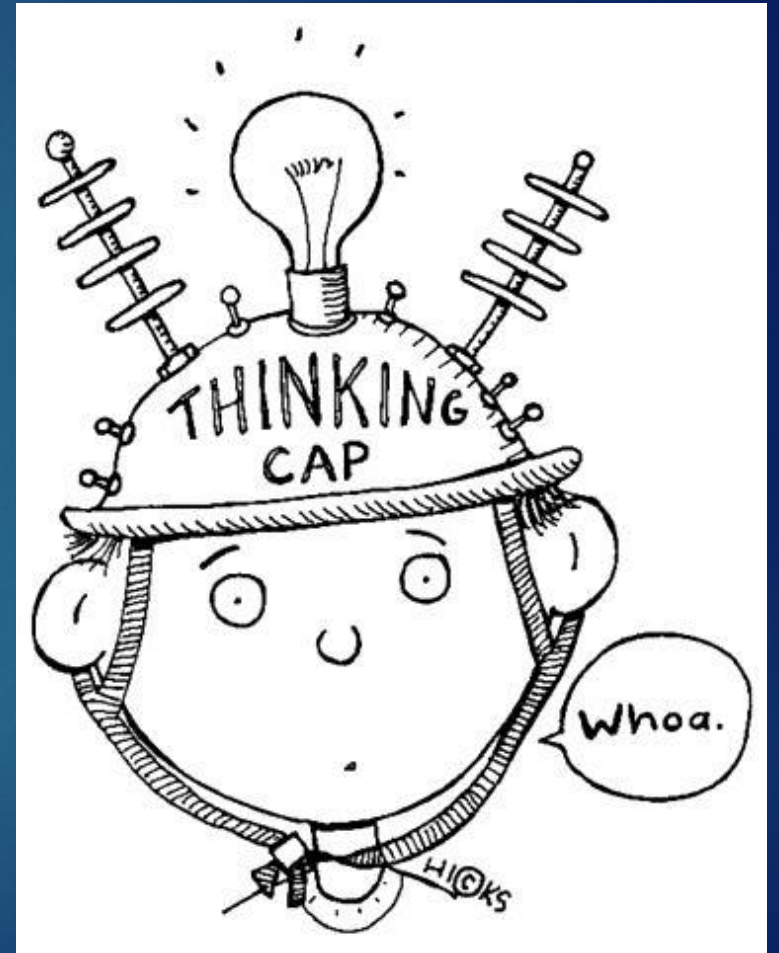- Use * to route all undefined paths
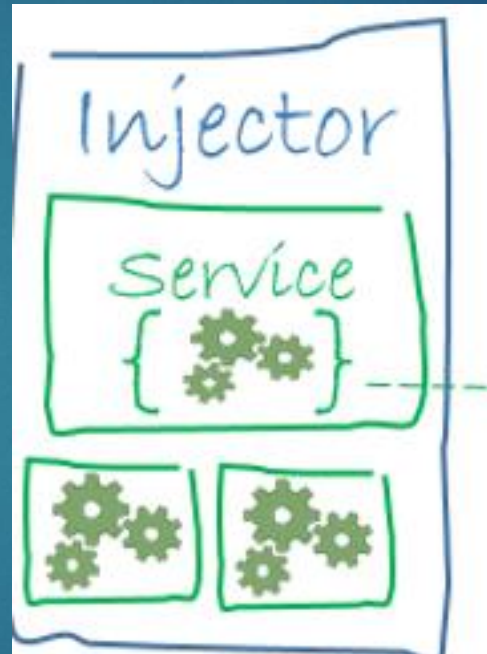
EXAMPLE
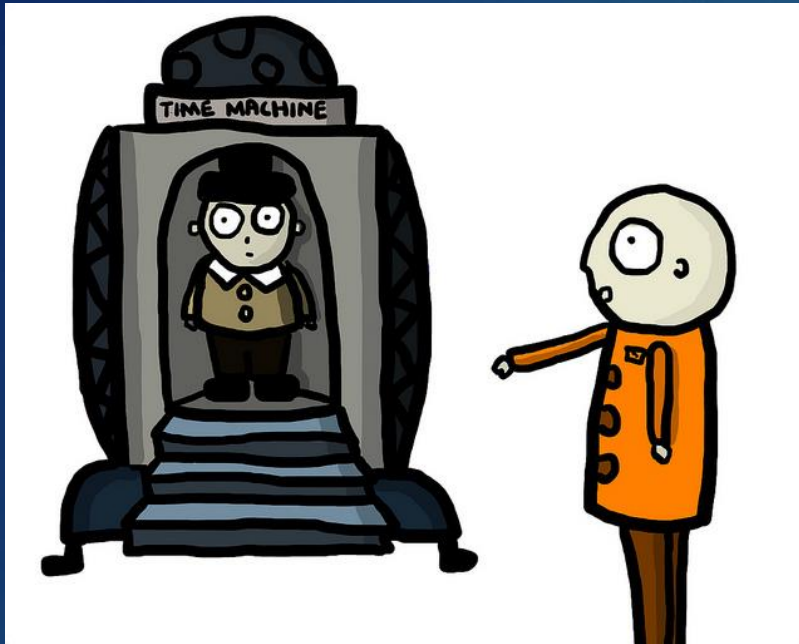
ANGULAR ROUTING

ASSESSMENT

ANGULAR ROUTING

Assignment

▶ Create a new component and html template.

▶ Add html for the form into it that you created previously.

▶ Setup up routing and a link so that the add link goes to this new component.

Service

- Separate Class
- Used to interact with the data
- Read and Persist
- Called from the component

EXAMPLE

ANGULAR SERVICE

Assignment

▶ Create a service that calls into your previously created web api.

▶ Return data and loop through it using the ng-for directive for the table instead of using the hard coded array.

QUICK REVIEW

ANGULAR

Not really a sign you'd want to see whilst driving through an eerily quiet neighbourhood...

Additional Resources

- Cheat Sheet
  - https://angular.io/guide/cheatsheet
- Angular Tutorial
  - https://angular.io/tutorial
- Udemy
  - https://www.udemy.com/learn-angular-from-scratch/
- JSFiddle Template
  - https://jsfiddle.net/yurzui/1hk7knwq/