## **Lab: Pipes**

## Exercise 1: a contact name pipe.

Let's create a simple pipe that neatly displays the name of a contact.

- 1. In app/, create a new folder contact-name with a new file called contact-name.pipe.ts.
- 2. Within app/contact-name/contact-name.pipe.ts, create and export a new class called ContactNamePipe.
- 3. Implement the interface PipeTransform. You can import this interface from @angular/core.
- 4. Let's make use of TypeScript types and import Contact from ./contact as well. Change the type of the input to Contact and change the name of the parameter to contact.
- 5. Implement the transform function. Return a string that appends the surname after the firstName:

```
transform(contact: Contact, args: any[]): any {
    return `${contact.firstName} ${contact.surname}`;
}
```

- 6. Add the @Pipe({}) annotation and give your pipe a name (I suggest 'contactName').
- 7. Now go to app.component.html and use the pipe. In the table, instead of manually databinding the first name and surname, databind the contact object with our pipe.
- 8. If you run this in the browers, you will notice errors in the console The pipe 'contactName' could not be found. This is because the pipe was never registered in the AppModule.

Open up the AppModule in src/app.module.ts and add it:

```
import { ContactNamePipe } from './contact-name/contact-name';

@NgModule({
   imports: [...],
   declarations: [..., ContactNamePipe], // things that are part of this
module
   exports: [...]
})
export class AppModule {
   ...
}
```

Verify that the table contains the names as before. One big difference is that we can now use our pipe throughout our entire web application to ensure that this piece of information is displayed consistently.