Angular 5 Training Course

Exercise D-translate

- This exercise will convert a simple **jQuery** translation interactivity into Angular.
- Create a new project

```
cd desktop
ng new translate
cd translate
ng serve --open
```

- Open both your new Angular project and the old jQuery project in your text editor.
- Review the HTML and CSS in the jQuery version. A lot of this code is reusable in the Angular version.

A component for each Spanish/English phrase.

- The main component will contain four instances of a phrase component.
- · Create a new component for each phrase.

```
ng generate component phrase --dry-run
ng generate component phrase
```

- **Refactor** your code, moving HTML and CSS across into the phrase component.
- Past one phrase from the jQuery project into the template of your new phrase component.

```
<section class="panel">
    ¿Dónde está
    Where is
</section>
```

• Edit the main template to include one instance of the phrase component.

```
<app-phrase></app-phrase>
```

 Copy the contents of styles/phrase-book.css from the jQuery project into phrase/phrase.component.css.

Web fonts

- Most of the styling works except for the **Google WebFont**.
- In the root of the Angular project edit **src/styles.css**.
- Define an url to the Google WebFont in this file:

```
@import url(https://fonts.googleapis.com/css?family=Oswald);
```

 Move the .phrase-book CSS rule from the phrase.component.css to the app.component.css

```
.phrase-book{
   font-family: 'oswald', sans-serif;
   font-size: 1rem;
}
```

• Use this class in the main component.

```
<section class="phrase-book">
<app-phrase></app-phrase>
</section>
```

Multiple phrases

- Create four instances of the phrase component in the main component.
- Wrap these instances in a Flexbox. Move the .flex rule into the main CSS file.

Define the phrase data.

- Turn the Spanish/English HTML into an array of objects in the main component.
- · Each object will have an ES and an EN property.

```
phrases;

constructor() {
    this.phrases = [
        { es : "¿Tienes?", en:"Do you have" },
        { es : "¿Dónde está", en:"Where is" },
        { es : "Yo necesito", en:"I need" },
        { es : "la cuenta", en:"the bill" }
    ]
}
```

• The phrases array can be typed in Typescript.

```
phrases:{ es:string, en:string}[];
```

• The phrases array is visible in the Chrome Augury dev-tools.

ngFor iteration over the array.

• Use *ngFor in the main component template to iterate over this array.

Pass phrase data into each component.

- We need to pass down English/Spanish phrase data into each phrase component.
- Define and import an @Input Decorator in the phrase component.

```
import { Input } from '@angular/core';
@Input() phrase;
```

Pass a phrase object as an argument into the phrase component instance.

```
<app-phrase [phrase]="p" *ngFor="let p of phrases">
```

- Each phrase object is now visible inside each phrase component in the Augury DevTools.
- Use the phrase object in the phrase template:

```
<section class="panel">
    {{ phrase.es }}
    {{ phrase.en }}
</section>
```

 Note the English phrase is not visible because it is orange text on an orange background.

Logic to hide/reveal phrase

• The phrase component needs a boolean variable to hold the state of the hidden/revealed English phrase.

```
show:boolean=false;
```

• Add a method to toggle the state of this variable.

```
togglePhrase() {
  this.show = !this.show;
}
```

• Add rollover events to trigger this method:

```
{{ phrase.es }}
```

 Add an ngClass directive on the English phrase to conditionally apply CSS rule "reveal".

```
[ngClass]="{'reveal':show}"
```

• The rule is already defined in the phrase component CSS.

EXERCISE

Extend this example to work in reverse: rolling over English words reveals Spanish.					