<

Exercise (Instructions): Single Page Applications Part 1

Objectives and Outcomes

In this exercise you will continue to develop the Angular application as a single page application, integrating the various components. At the end of this exercise you will be able to:

- Leverage the Angular router to enable the development of single page applications
- Provide a way of navigating among various views using the Angular router support.

Integrating the Contact Component

• Open the contact.component.html file and update its contents as follows:

```
<div class="container"</pre>
2
         fxLayout="column"
 3
         fxLayoutGap="10px">
 4
 5
         <div fxFlex>
 6
                 <div>
 7
                    <h3>Contact Us</h3>
 8
                    <hr>>
9
                 </div>
         </div>
10
11
12
        <div fxFlex>
13
          <h3>Location Information</h3>
14
          <div fxLayout="column" fxLayout.gt-sm="row">
15
               <div fxFlex="50" fxFlexOffset="20px">
                     <h4>0ur Address</h4>
16
17
                     <address>
18
                       121, Clear Water Bay Road<br>
19
                       Clear Water Bay, Kowloon<br>
20
                       HONG KONG<br>
21
                       <i class="fa fa-phone"></i>: +852 1234 5678<br>
22
                       <i class="fa fa-fax"></i>: +852 8765 4321<br>
23
                       <i class="fa fa-envelope"></i>:
24
                              <a href="mailto:confusion@food.net">confusion@food.net
                                </a>
25
                    </address>
26
                    27
                     <div>
28
                         <a md-raised-button href="tel:+85212345678"><i class="fa fa</pre>
                           -phone"></i> Call</a>
29
                         <a md-raised-button><i class="fa fa-skype"></i> Skype</a>
                         <a md-raised-button href="mailto:confusion@food.net"><i</pre>
30
                           class="fa fa-envelope-o"></i> Email</a>
                     </div>
31
32
                 </div>
               <div fxFlex="40">
33
34
                     <h4>Map of our Location</h4>
35
               </div>
36
             </div>
37
          </div>
38
    </div>
```

• Update the routes.ts file to add in the configuration for the contact component by adding in the following to the routes constant:

```
1 [{ path: 'contactus', component: ContactComponent }
```

• Update the header.component.html file to activate the contact link:

Updating the Home Component

• First update dish.ts file to update the dish class as follows:

```
import { Comment } from './comment';
2
 3
    export class Dish {
 4
        id: number;
 5
        name: string;
6
        image: string;
7
        category: string;
 8
        label: string;
9
        price: string;
10
        featured: boolean;
11
        description: string;
12
        comments: Comment[];
13
```

• Now that we added the id and featured property to dish, update the DISHES constant in dishes.ts to add an id to each element, and also add a featured property to each dish as follows:

```
Γ
 1
         {
2
             id: 0,
 3
             name: 'Uthappizza',
 4
 5
 6
             featured: true,
 7
 8
9
10
             id: 1,
11
12
             name: 'Zucchipakoda',
13
14
             featured: false,
15
16
17
         },
18
19
             id: 2,
20
             name: 'Vadonut',
21
22
             featured: false,
23
24
        <u>}</u>,
25
26
27
             id: 3,
28
             name: 'ElaiCheese Cake',
29
30
             featured: false,
31
32
33
         }
    ];
34
```

• Now update the dish service to return a specific dish, and a featured dish as follows:

```
getDish(id: number): Dish {
    return DISHES.filter((dish) => (dish.id === id))[0];
}

getFeaturedDish(): Dish {
    return DISHES.filter((dish) => dish.featured)[0];
}
```

• Next add promotion.ts file to the shared folder and update its contents as follows:

```
export class Promotion {
2
       id: number;
3
       name: string;
4
       image: string;
5
       label: string;
6
       price: string;
7
       featured: boolean;
8
       description: string;
9
```

• Then, add promotions.ts file to the shared folder and update its contents as follows:

```
1
    import { Promotion } from './promotion';
 2
 3
    export const PROMOTIONS: Promotion[] = [
 4
        {
 5
          id: 0,
 6
          name: 'Weekend Grand Buffet',
 7
          image: '/assets/images/buffet.png',
 8
          label: 'New'
          price: '19.99'
9
10
          featured: true,
          description: 'Featuring mouthwatering combinations with a choice of five
11
            different salads, six enticing appetizers, six main entrees and five
            choicest desserts. Free flowing bubbly and soft drinks. All for just $19
            .99 per person'
12
13
      ];
```

- Now add a new service named "promotion" to the services folder.
- Then, update the promotion.service.ts file as follows:

```
import { Injectable } from '@angular/core';
    import { Promotion } from '../shared/promotion';
    import { PROMOTIONS } from '../shared/promotions';
 5
    @Injectable()
    export class PromotionService {
 8
      constructor() { }
9
10
      getPromotions(): Promotion□ {
11
        return PROMOTIONS;
12
13
      getPromotion(id: number): Promotion {
14
15
        return PROMOTIONS.filter((promo) => (promo.id === id))[0];
16
      }
17
18
      getFeaturedPromotion(): Promotion {
19
        return PROMOTIONS.filter((promotion) => promotion.featured)[0];
20
      }
21
```

- Import the promotion service into the AppModule and add the service to the providers.
- Update the home.component.html file as follows to add two cards to show the featured dish and promotion in the home page:

```
<div class="container"
2
         fxLayout="row"
 3
         fxLayout.sm="column"
 4
         fxLayout.xs="column"
 5
         fxLayoutAlign.gt-md="space-around center"
6
         fxLayoutGap="10px">
7
8
    <md-card *ngIf="dish" fxFlex>
9
      <md-card-header>
10
        <div md-card-avatar></div>
        <md-card-title>
11
12
          <h3>{{dish.name | uppercase}}</h3>
13
        </md-card-title>
14
      </md-card-header>
15
      <img md-card-image src={{dish.image}} alt={{dish.name}}>
16
      <md-card-content>
17
        {{dish.description}}
18
        19
      </md-card-content>
20
    </md-card>
21
    <md-card *ngIf="promotion" fxFlex>
22
23
      <md-card-header>
24
        <div md-card-avatar></div>
25
        <md-card-title>
26
          <h3>{{promotion.name | uppercase}}</h3>
        </md-card-title>
27
28
      </md-card-header>
29
      <img md-card-image src={{promotion.image}} alt={{promotion.name}}>
30
      <md-card-content>
31
        {promotion.description}}
32
        33
      </md-card-content>
34
    </md-card>
35
36
    </div>
```

• Now update the home.component.ts file to fetch and provide the featured dish and promotion for the view:

```
import { Component, OnInit } from '@angular/core';
    import { Dish } from '../shared/dish';
    import { DishService } from '../services/dish.service';
import { Promotion } from '../shared/promotion';
    import { PromotionService } from '../services/promotion.service';
8
    @Component({
9
      selector: 'app-home',
      templateUrl: './home.component.html',
10
      styleUrls: ['./home.component.scss']
11
12
13
    export class HomeComponent implements OnInit {
14
15
      dish: Dish;
16
      promotion: Promotion;
17
18
      constructor(private dishservice: DishService,
19
         private promotionservice: PromotionService) { }
20
21
      ngOnInit() {
22
         this.dish = this.dishservice.getFeaturedDish();
23
         this.promotion = this.promotionservice.getFeaturedPromotion();
24
25
26
```

Highlighting the Current Component Link in the Toolbar

• Update each of the links in the toolbar with the following addition to the link:

```
1 <a . . . routerLinkActive="active"><span . . . ></span> Home</a>
```

• Now add the following scss class to header.component.scss:

```
1 . . .
2 $background-moredark: #4527A0;
3 . . .
4 .active {
5    background: $background-moredark;
6 }
```

• Save all the changes and do a Git commit with the message "Single Page Applications Part 1".

Conclusions

In this exercise you developed the Angular application further by integrating the components into a single page application.