

Exercise (Instructions): Data Binding

Objectives and Outcomes

In this exercise you will use your knowledge of data binding to update the Angular application to enable you to select any dish from the menu and show its details. At the end of this exercise you will be able to:

- Leverage data binding for communication among components
- Design a component to receive input from another component.

Refactoring the Code

- First, create a new class named `Comment` in a file named `comment.ts` in the shared folder and include the following in it:

```
1 export class Comment {  
2   rating: number;  
3   comment: string;  
4   author: string;  
5   date: string;  
6 }
```

- Then update the `dish` class to allow a dish to have an array of comments as follows:

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

- Then create a new file named `dishes.ts` in the shared folder to now export the JavaScript object array of dishes:

```

1  import { Dish } from './dish';
2
3  export const DISHES: Dish[] = [
4      {
5          name: 'Uthappizza',
6          image: '/assets/images/uthappizza.png',
7          category: 'mains',
8          label: 'Hot',
9          price: '4.99',
10         description: 'A unique combination of Indian Uthappam (pancake) and
            Italian pizza, topped with Cerignola olives, ripe vine cherry tomatoes
            , Vidalia onion, Guntur chillies and Buffalo Paneer.',
11         comments: [
12             {
13                 rating: 5,
14                 comment: "Imagine all the eatables, living in conFusion!",
15                 author: "John Lemon",
16                 date: "2012-10-16T17:57:28.556094Z"
17             },
18             {
19                 rating: 4,
20                 comment: "Sends anyone to heaven, I wish I could get my mother
                    -in-law to eat it!",
21                 author: "Paul McVites",
22                 date: "2014-09-05T17:57:28.556094Z"
23             },
24             {
25                 rating: 3,
26                 comment: "Eat it, just eat it!",
27                 author: "Michael Jaikishan",
28                 date: "2015-02-13T17:57:28.556094Z"
29             },
30             {
31                 rating: 4,
32                 comment: "Ultimate, Reaching for the stars!",
33                 author: "Ringo Starry",
34                 date: "2013-12-02T17:57:28.556094Z"
35             },
36             {
37                 rating: 2,
38                 comment: "It's your birthday, we're gonna party!",
39                 author: "25 Cent",
40                 date: "2011-12-02T17:57:28.556094Z"
41             }
42         ]
43     },
44     {
45         name: 'Zucchipakoda',
46         image: '/assets/images/zucchipakoda.png',
47         category: 'appetizer',
48         label: '',
49         price: '1.99',
50         description: 'Deep fried Zucchini coated with mildly spiced Chickpea
            flour batter accompanied with a sweet-tangy tamarind sauce',
51         comments: [
52             {
53                 rating: 5,
54                 comment: "Imagine all the eatables, living in conFusion!",
55                 author: "John Lemon",
56                 date: "2012-10-16T17:57:28.556094Z"
57             },
58             {
59                 rating: 4,
60                 comment: "Sends anyone to heaven, I wish I could get my mother
                    -in-law to eat it!",
61                 author: "Paul McVites",
62                 date: "2014-09-05T17:57:28.556094Z"
63             },
64             {
65                 rating: 3,

```

```

66         comment: "Eat it, just eat it!",
67         author: "Michael Jaikishan",
68         date: "2015-02-13T17:57:28.556094Z"
69     },
70     {
71         rating: 4,
72         comment: "Ultimate, Reaching for the stars!",
73         author: "Ringo Starry",
74         date: "2013-12-02T17:57:28.556094Z"
75     },
76     {
77         rating: 2,
78         comment: "It's your birthday, we're gonna party!",
79         author: "25 Cent",
80         date: "2011-12-02T17:57:28.556094Z"
81     }
82 ]
83 },
84 {
85     name: 'Vadonut',
86     image: '/assets/images/vadonut.png',
87     category: 'appetizer',
88     label: 'New',
89     price: '1.99',
90     description: 'A quintessential ConFusion experience, is it a vada or is
91         it a donut?',
92     comments: [
93         {
94             rating: 5,
95             comment: "Imagine all the eatables, living in conFusion!",
96             author: "John Lemon",
97             date: "2012-10-16T17:57:28.556094Z"
98         },
99         {
100             rating: 4,
101             comment: "Sends anyone to heaven, I wish I could get my mother
102                 -in-law to eat it!",
103             author: "Paul McVites",
104             date: "2014-09-05T17:57:28.556094Z"
105         },
106         {
107             rating: 3,
108             comment: "Eat it, just eat it!",
109             author: "Michael Jaikishan",
110             date: "2015-02-13T17:57:28.556094Z"
111         },
112         {
113             rating: 4,
114             comment: "Ultimate, Reaching for the stars!",
115             author: "Ringo Starry",
116             date: "2013-12-02T17:57:28.556094Z"
117         },
118         {
119             rating: 2,
120             comment: "It's your birthday, we're gonna party!",
121             author: "25 Cent",
122             date: "2011-12-02T17:57:28.556094Z"
123         }
124     ]
125 },
126 {
127     name: 'ElaiCheese Cake',
128     image: '/assets/images/elaicheesecake.png',
129     category: 'dessert',
130     label: '',
131     price: '2.99',
132     description: 'A delectable, semi-sweet New York Style Cheese Cake, with
        Graham cracker crust and spiced with Indian cardamoms',
133     comments: [

```

```

133         rating: 5,
134         comment: "Imagine all the eatables, living in conFusion!",
135         author: "John Lemon",
136         date: "2012-10-16T17:57:28.556094Z"
137     },
138     {
139         rating: 4,
140         comment: "Sends anyone to heaven, I wish I could get my mother
        -in-law to eat it!",
141         author: "Paul McVites",
142         date: "2014-09-05T17:57:28.556094Z"
143     },
144     {
145         rating: 3,
146         comment: "Eat it, just eat it!",
147         author: "Michael Jaikishan",
148         date: "2015-02-13T17:57:28.556094Z"
149     },
150     {
151         rating: 4,
152         comment: "Ultimate, Reaching for the stars!",
153         author: "Ringo Starry",
154         date: "2013-12-02T17:57:28.556094Z"
155     },
156     {
157         rating: 2,
158         comment: "It's your birthday, we're gonna party!",
159         author: "25 Cent",
160         date: "2011-12-02T17:57:28.556094Z"
161     }
162 ]
163 }
164 ];
165

```

Updating the Menu Component

- Open menu.component.ts file and update its content, first by deleting the dishes constant and then make the following changes:

```

1  import { Component, OnInit } from '@angular/core';
2  import { Dish } from '../shared/dish';
3  import { DISHES } from '../shared/dishes';
4
5  . . .
6
7  export class MenuComponent implements OnInit {
8
9      dishes = DISHES;
10
11      selectedDish: Dish;
12
13      . . .
14
15      onSelect(dish: Dish) {
16          this.selectedDish = dish;
17      }
18
19  }

```

- Then update the menu.component.html file as follows:

```
1  . . .
2  |
3      <md-grid-tile *ngFor="let dish of dishes" (click) = "onSelect(dish)">
4      . . .
5
6      <app-dishdetail [dish] = "selectedDish"></app-dishdetail>
7
8  . . .
```

Updating Dish Detail Component

- Open dishdetail.component.ts and update its contents as follows:

```
1  import { Component, OnInit, Input } from '@angular/core';
2  import { Dish } from '../shared/dish';
3  |
4  . . .
5
6  export class DishdetailComponent implements OnInit {
7
8      @Input()
9      dish: Dish;
10
11  . . .
```

- Save the changes and do a Git commit with the message "Data Binding".

Conclusions

In this exercise we examined the use of data binding in our Angular application.

Mark as completed

