

Exercise (Instructions): Single Page Applications Part 1

Objectives and Outcomes

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

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

Exercise Resources

dishes.js

promotions.js

leaders.js

comments.js

```
13      121, Clear Water Bay Road<br />
14      Clear Water Bay, Kowloon<br />
15      HONG KONG<br />
16      <i className="fa fa-phone"></i>: +852 1234 5678<br />
17      <i className="fa fa-fax"></i>: +852 8765 4321<br />
18      <i className="fa fa-envelope"></i>: <a href="mailto:
      :confusion@food.net">confusion@food.net</a>
19      </address>
20    </div>
21    <div className="col-12 col-sm-6 offset-sm-1">
22      <h5>Map of our Location</h5>
23    </div>
24    <div className="col-12 col-sm-11 offset-sm-1">
25      <div className="btn-group" role="group">
26        <a role="button" className="btn btn-primary" href="tel:
        :+85212345678"><i className="fa fa-phone"></i> Call</a>
27        <a role="button" className="btn btn-info"><i className=
        ="fa fa-skype"></i> Skype</a>
28        <a role="button" className="btn btn-success" href
        ="mailto:confusion@food.net"><i className="fa fa
        -envelope-o"></i> Email</a>
29      </div>
30    </div>
31  </div>
32 </div>
33 );
34 }
35
36 export default Contact;
```

Updating the Home Component

- First update *dishes.js* file in the shared folder to update the dishes as follows. (**NOTE:** Alternately you can download *dishes.js*, *comments.js*, *promotions.js* and *leaders.js* given above in Exercise resources and move them to the shared folder):

```
1 export const DISHES =
2   [
3     {
4       id: 0,
5       name: 'Uthappizza',
6       image: '/assets/images/uthappizza.png',
7       category: 'mains',
8       label: 'Hot',
9       price: '4.99',
10      featured: true,
11      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.'
12    },
13    {
14      id: 1,
15      name: 'Zucchipakoda',
16      image: '/assets/images/zucchipakoda.png',
17      category: 'appetizer',
18      label: '',
19      price: '1.99',
20      featured: false,
21      description: 'Deep fried Zucchini coated with mildly spiced Chickpea
        flour batter accompanied with a sweet-tangy tamarind sauce'
22    },
23    {
24      id: 2,
25      name: 'Butter Chicken',
26      image: '/assets/images/butterchicken.png',
27      category: 'main course',
28      label: 'popular',
29      price: '9.99',
30      featured: true,
31      description: 'Creamy chicken in a buttery tomato sauce'
32    },
33    {
34      id: 3,
35      name: 'Palak Paneer',
36      image: '/assets/images/palakpaneer.png',
37      category: 'vegetarian',
38      label: 'vegetarian',
39      price: '8.99',
40      featured: false,
41      description: 'Palak Paneer is a popular Indian dish made with
42      fresh spinach leaves, paneer (cottage cheese) and a mild tomato
43      sauce'
44    },
45    {
46      id: 4,
47      name: 'Mushroom Curry',
48      image: '/assets/images/mushroomcurry.png',
49      category: 'vegetarian',
50      label: 'vegetarian',
51      price: '7.99',
52      featured: false,
53      description: 'Mushroom Curry is a popular Indian dish made with
54      fresh mushrooms, paneer (cottage cheese) and a mild tomato
55      sauce'
56    },
57    {
58      id: 5,
59      name: 'Rajma Chawal',
60      image: '/assets/images/rajmachawal.png',
61      category: 'vegetarian',
62      label: 'vegetarian',
63      price: '6.99',
64      featured: false,
65      description: 'Rajma Chawal is a popular Indian dish made with
66      kidney beans (rajma) and rice (chawal)'
67    },
68    {
69      id: 6,
70      name: 'Dahi Bhaji',
71      image: '/assets/images/dahibhaji.png',
72      category: 'snacks',
73      label: 'snacks',
74      price: '3.99',
75      featured: false,
76      description: 'Dahi Bhaji is a popular Indian street food made
77      with lentils (dahi) and chickpeas (bhaji)'
78    },
79    {
80      id: 7,
81      name: 'Masala Dosa',
82      image: '/assets/images/masaladosa.png',
83      category: 'snacks',
84      label: 'snacks',
85      price: '2.99',
86      featured: false,
87      description: 'Masala Dosa is a popular Indian street food made
88      with rice and lentils (masala) and served with chutney'
89    },
90    {
91      id: 8,
92      name: 'Vada Pav',
93      image: '/assets/images/vadapav.png',
94      category: 'snacks',
95      label: 'snacks',
96      price: '1.99',
97      featured: false,
98      description: 'Vada Pav is a popular Indian street food made
99      with a fried lentil patty (vada) served in a bun (pav)'
100   },
101   ]
```

```

39     price: '2.99',
40     featured: false,
41     description: 'A delectable, semi-sweet New York Style Cheese Cake, with
                    Graham cracker crust and spiced with Indian cardamoms'
42   }
43 ];

```

- Now add a new file named *comments.js* to the shared folder and update it as follows. We are now moving the comments about the dishes into its own file:

```

1  export const COMMENTS =
2  [
3    {
4      id: 0,
5      dishId: 0,
6      rating: 5,
7      comment: "Imagine all the eatables, living in conFusion!",
8      author: "John Lemon",
9      date: "2012-10-16T17:57:28.556094Z"
10   },
11   {
12     id: 1,
13     dishId: 0,
14     rating: 4,
15     comment: "Sends anyone to heaven, I wish I could get my mother-in-law to
                eat it!",
16     author: "Paul McVites",
17     date: "2013-14-04T11:57:28.556094Z"
18   },
19   {
20     id: 4,
21     dishId: 0,
22     rating: 2,
23     comment: "It's your birthday, we're gonna party!",
24     author: "25 Cent",
25     date: "2011-12-02T17:57:28.556094Z"
26   },
27   {
28     id: 5,
29     dishId: 1,
30     rating: 5,
31     comment: "Imagine all the eatables, living in conFusion!",
32     author: "John Lemon",
33     date: "2012-10-16T17:57:28.556094Z"
34   },
35   {
36     id: 6,
37     dishId: 1,
38     rating: 4,
39     comment: "Sends anyone to heaven, I wish I could get my mother-in-law to
                eat it!",
40     author: "Paul McVites",
41     date: "2014-09-05T17:57:28.556094Z"
42   },
43   {
44     id: 7,
45     dishId: 1,
46     rating: 3,
47     comment: "Eat it, just eat it!",
48     author: "25 Cent",
49     date: "2011-12-02T17:57:28.556094Z"
50   },
51   {
52     id: 10,
53     dishId: 2,
54     rating: 5,
55     comment: "Imagine all the eatables, living in conFusion!",
56     author: "John Lemon",
57     date: "2012-10-16T17:57:28.556094Z"
58   },
59   {
60     id: 11,
61     dishId: 2,
62     rating: 4,
63     comment: "Sends anyone to heaven, I wish I could get my mother-in-law to
                eat it!",
64     author: "Paul McVites",
65     date: "2014-09-05T17:57:28.556094Z"
66   },
67   {
68     id: 12,
69     dishId: 2,
70     rating: 3,
71     comment: "Eat it, just eat it!",
72     author: "Michael Jaikishan",
73     date: "2015-02-13T17:57:28.556094Z"
74   },
75   {
76     id: 13,
77     dishId: 2,
78     rating: 5,
79     comment: "Imagine all the eatables, living in conFusion!",
80     author: "John Lemon",
81     date: "2012-10-16T17:57:28.556094Z"
82   },
83   {
84     id: 16,
85     dishId: 3,
86     rating: 4,
87     comment: "Sends anyone to heaven, I wish I could get my mother-in-law to
                eat it!",
88     author: "Paul McVites",
89   }
90 ];

```

```

137     date: "2014-09-05T17:57:28.556094Z"
138   },
139   {
140     id: 17,
141     dishId: 3,
142     rating: 3,
143     comment: "Eat it, just eat it!",
144     author: "Michael Jaikishan",
145     date: "2015-02-13T17:57:28.556094Z"
146   },
147   {
148     id: 18,
149     dishId: 3,
150     rating: 4,
151     comment: "Ultimate, Reaching for the stars!",
152     author: "Ringo Starry",
153     date: "2013-12-02T17:57:28.556094Z"
154   },
155   {
156     name: 'Weekend Grand Buffet',
157     image: '/assets/images/buffet.png',
158     label: 'New',
159     price: '19.99',
160     featured: true,
161     description: 'Featuring mouthwatering combinations with a choice of five
162                 different salads, six enticing appetizers, six main entrees and five
163                 choicest desserts. Free flowing bubbly and soft drinks. All for just $19
164                 .99 per person'
165   }
166 ];

```

- Next add a new file named *leaders.js* file to the shared folder and update its contents as follows:

```

1 export const LEADERS = [
2   {
3     id: 0,
4     name: 'Peter Pan',
5     image: '/assets/images/alberto.png',
6     designation: 'Chief Epicurious Officer',
7     abbr: 'CEO',
8     featured: false,
9     description: "Our CEO, Peter, credits his hardworking East Asian immigrant
10                 parents who undertook the arduous journey to the shores of America with
11                 the intention of giving their children the best future. His mother's
12                 wizardy in the kitchen whipping up the tastiest dishes with whatever is
13                 available inexpensively at the supermarket, was his first inspiration to
14                 create the fusion cuisines for which The Frying Pan became well known.
15                 He brings his zeal for fusion cuisines to this restaurant, pioneering
16
17   },
18   {
19     id: 2,
20     name: 'Agumbe Tang',
21     image: '/assets/images/alberto.png',
22     designation: 'Chief Taste Officer',
23     abbr: 'CTO',
24     featured: false,
25     description: 'Blessed with the most discerning gustatory sense, Agumbe,
26                 our CFO, personally ensures that every dish that we serve meets his
27                 exacting tastes. Our chefs dread the tongue lashing that ensues if their
28                 dish does not meet his exacting standards. He lives by his motto, You
29                 click only if you survive my lick.'
30   },
31   {
32     id: 3,
33     name: 'Alberto Somayya',
34     image: '/assets/images/alberto.png',
35     designation: 'Executive Chef',
36     abbr: 'EC',
37     featured: true,
38     description: 'Award winning three-star Michelin chef with wide
39                 International experience having worked closely with whos-who in the
40                 culinary world, he specializes in creating mouthwatering Indo-Italian
41                 fusion experiences. He says, Put together the cuisines from the two
42                 craziest cultures, and you get a winning hit! Amma Mia!'
43   }
44 ];

```

- Now update the *HomeComponent.ts* file to fetch and display the featured dish, promotion and leader as follows:

```

15   );
16 }
17
18 function Home(props) {
19   return(
20     <div className="container">
21       <div className="row align-items-start">
22         <div className="col-12 col-md m-1">
23           <RenderCard item={props.dish} />
24         </div>
25         <div className="col-12 col-md m-1">
26           <RenderCard item={props.promotion} />
27         </div>
28         <div className="col-12 col-md m-1">
29           <RenderCard item={props.leader} />
30         </div>
31       </div>
32     </div>
33   );
34 }

```

```
38 export default Home;
```

- Next, update HomeComponent.js as follows:

```
1  ...
2
3  import { COMMENTS } from 'shared/comments';
4
5  ...
6
7  ...
8
9  ...
10
11 ...
12
13 ...
14
15 ...
16
17 ...
18
19 ...
20
21 ...
22
23 ...
24
25 const HomePage = () => {
26   return(
27     <Home
28       dish={this.state.dishes.filter((dish) => dish.featured)[0]}
29       promotion={this.state.promotions.filter((promo) => promo.featured)[0]}
30       leader={this.state.leaders.filter((leader) => leader.featured)[0]}
31     />
32   );
33 }
34 ...
```

- 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.