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 |

Integrating the Contact Component

- Add a new file named *ContactComponent.js* file and update its contents as follows:

```
1  import React from 'react';
2
3  function Contact(props) {
4      return(
5          <div className="container">
6              <div className="row row-content">
7                  <div className="col-12">
8                      <h3>Location Information</h3>
9                  </div>
10                 <div className="col-12 col-sm-4 offset-sm-1">
11                     <h5>Our Address</h5>
12                     <address>
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;
```

- Update the *MainComponent.js* file to integrate the ContactComponent by adding in the following:

```
1  . . .
2
3  import Contact from './ContactComponent';
4
5  . . .
6
7              <Route exact path='/contactus' component={Contact} />} />
8
```

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:'Vadonut',
26        image: '/assets/images/vadonut.png',
27        category: 'appetizer',
28        label:'New',
29        price:'1.99',
30        featured: false,
31        description:'A quintessential ConFusion experience, is it a vada or is
              it a donut?'
32        },
33    ▾   {
34        id: 3,
35        name:'ElaiCheese Cake',
36        image: '/assets/images/elaicheesecake.png',
37        category: 'dessert',
38        label:'',
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: "2014-09-05T17:57:28.556094Z"
 18     },
 19 ▾     {
 20         id: 2,
 21         dishId: 0,
 22         rating: 3,
 23         comment: "Eat it, just eat it!",
 24         author: "Michael Jaikishan",
 25         date: "2015-02-13T17:57:28.556094Z"
 26     },
 27 ▾     {
 28         id: 3,
 29         dishId: 0,
 30         rating: 4,
 31         comment: "Ultimate, Reaching for the stars!",
 32         author: "Ringo Starry",
 33         date: "2013-12-02T17:57:28.556094Z"
 34     },
 35 ▾     {
 36         id: 4,
 37         dishId: 0,
 38         rating: 2,
 39         comment: "It's your birthday, we're gonna party!",
 40         author: "25 Cent",
 41         date: "2011-12-02T17:57:28.556094Z"
 42     },
 43 ▾     {
 44         id: 5,
 45         dishId: 1,
 46         rating: 5,
 47         comment: "Imagine all the eatables, living in conFusion!",
 48         author: "John Lemon",
 49         date: "2012-10-16T17:57:28.556094Z"
 50     },
 51 ▾     {
 52         id: 6,
 53         dishId: 1,
 54         rating: 4,
 55         comment: "Sends anyone to heaven, I wish I could get my mother-in-law to
              eat it!",
 56         author: "Paul McVites",
 57         date: "2014-09-05T17:57:28.556094Z"
 58     },
 59 ▾     {
 60         id: 7,
 61         dishId: 1,
 62         rating: 3,
 63         comment: "Eat it, just eat it!",
 64         author: "Michael Jaikishan",
 65         date: "2015-02-13T17:57:28.556094Z"
 66     },
 67 ▾     {
 68         id: 8,
 69         dishId: 1,
 70         rating: 4,
 71         comment: "Ultimate, Reaching for the stars!",
 72         author: "Ringo Starry",
 73         date: "2013-12-02T17:57:28.556094Z"
 74     },
 75 ▾     {
 76         id: 9,
 77         dishId: 1,
 78         rating: 2,
 79         comment: "It's your birthday, we're gonna party!",
 80         author: "25 Cent",
 81         date: "2011-12-02T17:57:28.556094Z"
 82     },
 83 ▾     {
 84         id: 10,
 85         dishId: 2,
 86         rating: 5,
 87         comment: "Imagine all the eatables, living in conFusion!",
 88         author: "John Lemon",
 89         date: "2012-10-16T17:57:28.556094Z"
 90     },
 91 ▾     {
 92         id: 11,
 93         dishId: 2,
 94         rating: 4,
 95         comment: "Sends anyone to heaven, I wish I could get my mother-in-law to
              eat it!",
 96         author: "Paul McVites",
 97         date: "2014-09-05T17:57:28.556094Z"
 98     },
 99 ▾     {
100         id: 12,
101         dishId: 2,
102         rating: 3,
103         comment: "Eat it, just eat it!",
104         author: "Michael Jaikishan",
```

```
105          date: "2015-02-13T17:57:28.556094Z"
106       },
107     {
108          id: 13,
109          dishId: 2,
110          rating: 4,
111          comment: "Ultimate, Reaching for the stars!",
112          author: "Ringo Starry",
113          date: "2013-12-02T17:57:28.556094Z"
114       },
115     {
116          id: 14,
117          dishId: 2,
118          rating: 2,
119          comment: "It's your birthday, we're gonna party!",
120          author: "25 Cent",
121          date: "2011-12-02T17:57:28.556094Z"
122       },
123     {
124          id: 15,
125          dishId: 3,
126          rating: 5,
127          comment: "Imagine all the eatables, living in conFusion!",
128          author: "John Lemon",
129          date: "2012-10-16T17:57:28.556094Z"
130       },
131     {
132          id: 16,
133          dishId: 3,
134          rating: 4,
135          comment: "Sends anyone to heaven, I wish I could get my mother-in-law to
               eat it!",
136          author: "Paul McVites",
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          id: 19,
157          dishId: 3,
158          rating: 2,
159          comment: "It's your birthday, we're gonna party!",
160          author: "25 Cent",
161          date: "2011-12-02T17:57:28.556094Z"
162       }
163   ];
```

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

```
1   export const PROMOTIONS = [
2       {
3          id: 0,
4          name: 'Weekend Grand Buffet',
5          image: '/assets/images/buffet.png',
6          label: 'New',
7          price: '19.99',
8          featured: true,
9          description: 'Featuring mouthwatering combinations with a choice of five
             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'
10      }
11   ];
```

- 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
             parents who undertook the arduous journey to the shores of America with
             the intention of giving their children the best future. His mother's
             wizardy in the kitchen whipping up the tastiest dishes with whatever is
             available inexpensively at the supermarket, was his first inspiration to
             create the fusion cuisines for which The Frying Pan became well known.
             He brings his zeal for fusion cuisines to this restaurant, pioneering
             cross-cultural culinary connections."
10      },
11     {
12          id: 1,
13          name: 'Dhanasekaran Witherspoon',
14          image: '/assets/images/alberto.png',
15          designation: 'Chief Food Officer',
16          abbr: 'CFO',
17          featured: false,
18          description: 'Our CFO, Danny, as he is affectionately referred to by his
             colleagues, comes from a long established family tradition in farming
             and produce. His experiences growing up on a farm in the Australian
             outback gave him great appreciation for varieties of food sources. As he
             puts it in his own words, Everything that runs, wins, and everything
             that stays, pays!'
19      },
20     {
21          id: 2,
22          name: 'Agumbe Tang',
23          image: '/assets/images/alberto.png',
24          designation: 'Chief Taste Officer',
25          abbr: 'CTO',
26          featured: false,
27          description: 'Blessed with the most discerning gustatory sense, Agumbe,
             our CFO, personally ensures that every dish that we serve meets his
             exacting tastes. Our chefs dread the tongue lashing that ensues if their
             dish does not meet his exacting standards. He lives by his motto, You
             click only if you survive my lick.'
28      },
29     {
30          id: 3,
31          name: 'Alberto Somayya',
32          image: '/assets/images/alberto.png',
33          designation: 'Executive Chef',
34          abbr: 'EC',
35          featured: true,
36          description: 'Award winning three-star Michelin chef with wide
             International experience having worked closely with whos-who in the
             culinary world, he specializes in creating mouthwatering Indo-Italian
             fusion experiences. He says, Put together the cuisines from the two
             craziest cultures, and you get a winning hit! Amma Mia!'
37      }
38   ];
```

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

```
1    import React from 'react';
2  ▾ import { Card, CardImg, CardText, CardBody,
3        CardTitle, CardSubtitle } from 'reactstrap';
4
5  ▾ function RenderCard({item}) {
6
7        return(
8            <Card>
9                <CardImg src={item.image} alt={item.name} />
10               <CardBody>
11               <CardTitle>{item.name}</CardTitle>
12               {item.designation ? <CardSubtitle>{item.designation}</CardSubtitle>
                     : null }
13               <CardText>{item.description}</CardText>
14               </CardBody>
15           </Card>
16       );
17
18   }
19
20 ▾ function Home(props) {
21       return(
22           <div className="container">
23               <div className="row align-items-start">
24                   <div className="col-12 col-md m-1">
25                       <RenderCard item={props.dish} />
26                   </div>
27                   <div className="col-12 col-md m-1">
28                       <RenderCard item={props.promotion} />
29                   </div>
30                   <div className="col-12 col-md m-1">
31                       <RenderCard item={props.leader} />
32                   </div>
33               </div>
34           </div>
35       );
36   }
37
38   export default Home;
```

- Next, update MainComponent.js as follows:

```
1    . . .
2
3    import { COMMENTS } from '../shared/comments';
4    import { PROMOTIONS } from '../shared/promotions';
5    import { LEADERS } from '../shared/leaders';
6
7    . . .
8
9  ▾ class Main extends Component {
10
11 ▾   constructor(props) {
12       super(props);
13
14 ▾     this.state = {
15         dishes: DISHES,
16         comments: COMMENTS,
17         promotions: PROMOTIONS,
18         leaders: LEADERS
19       };
20     }
21
22     . . .
23
24 ▾   const HomePage = () => {
25       return(
26           <Home
27               dish={this.state.dishes.filter((dish) => dish.featured)[0]}
28               promotion={this.state.promotions.filter((promo) => promo.featured
                     )[0]}
29               leader={this.state.leaders.filter((leader) => leader.featured)[0]}
30           />
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.

Mark as completed