

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:
19              :confusion@food.net">confusion@food.net</a>
20          </address>
21        </div>
22        <div className="col-12 col-sm-6 offset-sm-1">
23          <h5>Map of our Location</h5>
24        </div>
25        <div className="col-12 col-sm-11 offset-sm-1">
26          <div className="btn-group" role="group">
27            <a role="button" className="btn btn-primary" href="tel:
28              :+85212345678"><i className="fa fa-phone"></i> Call</a>
29            <a role="button" className="btn btn-info"><i className
30              ="fa fa-skype"></i> Skype</a>
31            <a role="button" className="btn btn-success" href
32              ="mailto:confusion@food.net"><i className="fa fa
33              -envelope-o"></i> Email</a>
34          </div>
35        </div>
36      </div>
37    </div>
38  );
39 }
40
41 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
16      eat it!",
17    author: "Paul McVites",
18    date: "2014-09-05T17:57:28.556094Z"
19  },
20  {
21    id: 2,
22    dishId: 0,
23    rating: 3,
24    comment: "Eat it, just eat it!",
25    author: "Michael Jaikishan",
26    date: "2015-02-13T17:57:28.556094Z"
27  },
28  {
29    id: 3,
30    dishId: 0,
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    id: 4,
38    dishId: 0,
39    rating: 2,
40    comment: "It's your birthday, we're gonna party!",
41    author: "25 Cent",
42    date: "2011-12-02T17:57:28.556094Z"
43  },
44  {
45    id: 5,
46    dishId: 1,
47    rating: 5,
48    comment: "Imagine all the eatables, living in conFusion!",
49    author: "John Lemon",
50    date: "2012-10-16T17:57:28.556094Z"
51  },
52  {
53    id: 6,
54    dishId: 1,
55    rating: 4,
56    comment: "Sends anyone to heaven, I wish I could get my mother-in-law to
57      eat it!",
58    author: "Paul McVites",
59    date: "2014-09-05T17:57:28.556094Z"
60  },
61  {
62    id: 7,
63    dishId: 1,
64    rating: 3,
65    comment: "Eat it, just eat it!",
66    author: "Michael Jaikishan",
67    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 }

```

- 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>
13                   : null }
14                 <CardText>{item.description}</CardText>
15             </CardBody>
16         </Card>
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
29            )[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".