Exercise (Instructions): React Components Part 1

Exercise Resources

images.zip

Objectives and Outcomes

In this exercise you will add the first component to your React application and update its view using JSX. At the end of this exercise you will be able to:

- Add components to your React application
- Use JSX to define the views of your component.

Adding a Menu Component

- First, download the *images.zip* file provided above and then unzip the file. Create a folder named *assets* in the *public* folder. Move the resulting *images* folder containing some PNG files to the React project's *public/assets* folder. These image files will be useful for our exercises.

- Next, add a new folder named *components* in the *src* folder, and create a new file named *MenuComponent.js* in this folder.

- Add the following code to *MenuComponent.js*:

```jsx
import React, { Component } from 'react';
import { Media } from 'reactstrap';

class Menu extends Component {
    constructor(props) {
        super(props);
        this.state = {
            dishes: [
                {
                    id: 0,
                    name:'Uthappizza',
                    image: 'assets/images/uthappizza.png',
                    category: 'mains',
                    label:'Hot',
                    price:'4.99',
                    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.'                                },
                {
                    id: 1,
                    name:'Zucchipakoda',
                    image: 'assets/images/zucchipakoda.png',
                    category: 'appetizer',
                    label:'',
                    price:'1.99',
                    description:'Deep fried Zucchini coated with mildly spiced
                        Chickpea flour batter accompanied with a sweet-tangy
                        tamarind sauce'                        },
                {
                    id: 2,
                    name:'Vadonut',
                    image: 'assets/images/vadonut.png',
                    category: 'appetizer',
                    label:'New',
                    price:'1.99',
                    description:'A quintessential ConFusion experience, is it a
                        vada or is it a donut?'                        },
                {
                    id: 3,
                    name:'ElaiCheese Cake',
                    image: 'assets/images/elaicheesecake.png',
                    category: 'dessert',
                    label:'',
                    price:'2.99',
                    description:'A delectable, semi-sweet New York Style Cheese
                        Cake, with Graham cracker crust and spiced with Indian
                        cardamoms'                        }
            ],
        };
    }

    render() {
        const menu = this.state.dishes.map((dish) => {
            return (
                <div key={dish.id} className="col-12 mt-5">
                    <Media tag="li">
                        <Media left middle>
                            <Media object src={dish.image} alt={dish.name} />
                        </Media>
                        <Media body className="ml-5">
                            <Media heading>{dish.name}</Media>
                            <p>{dish.description}</p>
                        </Media>
                    </Media>
                </div>
            );
```

```
60              });
61
62          return (
63            <div className="container">
64              <div className="row">
65                <Media list>
66                      {menu}
67                </Media>
68              </div>
69            </div>
70          );
71      }
72  }
73
```

- Next, open *App.js* file and update it as follows:

```
1   . . .
2
3   import Menu from './components/MenuComponent';
4
5   . . .
6
7       <Menu />
8
9       . . .
```

- Open *App.css* file and delete all its contents.
- Save all changes and do a Git commit with the message "Components Part 1".

Conclusions

In this exercise we added a new component to our React application, added data to its class, and then updated the app to show the information in the web page.