## Exercise (Instructions): Fetch from Server

## **Objectives and Outcomes**

In this exercise you will incorporate Fetch into your React app and then use it to communicate with the REST API server. At the end of this exercise you will be able to:

- Incorporate Fetch into your React app
- · Use Fetch to communicate with the REST API server

## Fetch

As a first step, let us install Fetch into our project as follows:

```
1 yarn add cross-fetch@2.1.0
```

Now that we have installed Fetch, let us configure your application to connect to the server. First, create a file named baseUrl.js
in the shared folder and add the following to it:

```
1 export const baseUrl = 'http://localhost:3001/';
```

- Make sure that the json-server is running and serving up the data as illustrated in the previous exercise
- Next, open ActionTypes.js and add the following:

```
3 import { baseUrl } from '../shared/baseUrl';
          return fetch(baseUrl + 'dishes')
          .then(response => response.json())
.then(dishes => dispatch(addDishes(dishes)));
 11 . .
 12
13
 23 });
24
 25 * export const addComments = (comments) => ({
26     type: ActionTypes.ADD_COMMENTS,
27     payload: comments
  30 → export const fetchPromos = () => (dispatch) => {
          dispatch(promosLoading());
 33
34
35
          return fetch(baseUrl + 'promotions')
 35 .then(response => response.json())
36 .then(nrmmos => disnatch(addPromos())
48 * export const addPromos = (promos) => ({
           type: ActionTypes.ADD_PROMOS,
          payload: promos
51 });
```

Next, open comments.js and update it as follows:

```
import * as ActionTypes from './ActionTypes';

**export const Comments = (state = { errMess: null, comments: | }, action) => {

**switch (action.type) {
    case ActionTypes.ADD_COMMENTS:
        return {...state, errMess: null, comments: action.payload};

    case ActionTypes.COMMENTS_FAILED:
        return {...state, errMess: action.payload};

    case ActionTypes.ADD_COMMENT:
    var comment = action.payload;
    comment.id = state.comments.length;
    comment.date = new Date().toISOString();
    return { ...state, comments: state.comments.concat(comment)};

    default:
    return state;
}

}

**page 1**

**page 2**

**page 3**

**page 3**

**page 4**

**page 4
```

Similarly, open promotions.js and update it as follows:

```
1 import * as ActionTypes from './ActionTypes';

2

13 case ActionTypes.PROMOS_FAILED:
14 return {...state. isloadina: false. errMess: action.pavload}:
```

```
15
16 default:
17 return state;
18 }
```

- Now that the Redux actions are all updated, it's time to update the components.
- Open MainComponent.js and update it as follows:

```
import { addComment, fetchDishes, fetchComments, fetchPromos } from '../redux
//ActionCreators';

const mapDispatchToProps = dispatch => ({
    addComment: (dishId, rating, author, comment) => dispatch(addComment(dishId, rating, author, comment)),
    fetchDishes: () => { dispatch(fetchDishes())},
    fetchDishes: () => { dispatch(fetchDishes())},
    fetchPromos: () => dispatch(fetchComments()),
    fetchPromos: () => dispatch(fetchPromos()),
    fetchPromos: () => dispatch(fetchPromos(),
    fetchPromos: () => dispatch(fetchPromos(),
    fetchPromos: () => dispatch(fetchPromos(),
    fetchPromos(),
    fetchPromos: () =
```

Then, open MenuComponent.js and update it as follows:

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```
1 . . .
2 import { baseUrl } from '../shared/baseUrl';
4 5 . . .
6 7 < CardImg top src={baseUrl + dish.image} alt={dish.name} />
8 9 . . .
```

• Save all the changes and do a Git commit with the message "Fetch from Server".

## Conclusions

In this exercise you have learnt to install Fetch and use it communicate with the server.