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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:

```
2
3 export const ADD_COMMENTS = 'ADD_COMMENTS';
4 export const COMMENTS_FAILED = 'COMMENTS_FAILED';
5 export const PROMOS_LOADING = 'PROMOS_LOADING';
6 export const PROMOS = 'ADD_PROMOS = 'ADD_PROMOS = 'ADD_PROMOS = 'ADD_PROMOS = 'ADD_PROMOS = ADD_PROMOS = ADD_PROM
```

• Then, open ActionCreators.js and update it as follows:

```
inport { baseUrl } from '../shared/baseUrl';

import { baseUrl } from '../shared/baseUrl';

then(response => response.json())
    ...

return fetch(baseUrl + 'dishes')
    ...then(response => response.json())
    ...

then(dishes => dispatch(addDishes(dishes)));

...

return fetch(baseUrl + 'compents')
    ...then(response => response.json())

then(comments => dispatch(addGovments(comments)));

};

return fetch(baseUrl + 'compents')
    ...then(response => response.json())

return fetch(baseUrl + 'rements')

type: ActionTypes.COMMENTS_FAILED,
    payload: comments

return fetch(baseUrl + 'promotions')
    then(response => response.json())

return fetch(baseUrl + 'promotions')
    ..then(response => response.json())
    ..then(response => response.json())

return fetch(baseUrl + 'promotions')
    ..then(response => response.json())
    ..then(response => response.json())
    ..then(response => response.json())

return fetch(baseUrl + 'promotions')
    ..then(response => response.json())
    ..then(response => response.json())
```

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

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

vexport const Comments = (state = { errMess: null, comments:[]}, action) => {

vexport const Comments = (state = { errMess: null, comments: []}, action) => {

vexport const Comments = (state = { errMess: null, comments: action.payload};

case ActionTypes.ADD_COMMENTS_FAILED:

return {...state, errMess: action.payload};

case ActionTypes.ADD_COMMENTS_ fail case ActionTypes.ADD_COMMENTS_ case ActionTypes.ADD_COM
```

```
14 comment.date = new Date().toISOString();
15 return { ...state, comments: state.comments.concat(comment)};
16 default:
18 return state;
19 };
```

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

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

vexport const Promotions = (state = { isLoading: true, errMess: null, errMess: null, promotions: []}, action) => {

vexport case ActionTypes.ADD_PROMOS: return {...state, isLoading: false, errMess: null, promotions: action ..payload];

case ActionTypes.PROMOS_LOADING: return {...state, isLoading: true, errMess: null, promotions: []}

case ActionTypes.PROMOS_FAILED: return {...state, isLoading: false, errMess: action.payload};

default: return {...state, isLoading: false, errMess: action.payload};

default: return state;
}

}
```

- 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(actions.reset('feedback'))},
    fetchComments: () => dispatch(fetchComments()),
    fetchPromos: () => dispatch(fetchPromos()),
    fetchPromos(),
    fetch
```

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

```
import { baseUrl } from '../shared/baseUrl';

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```

• Then, open HomeComponent.js and update it as follows:

• Then, open DishdetailComponent.js and update it as follows:

```
import { baseUrl } from '../shared/baseUrl';

. . .

CardImg top src={baseUrl + dish.image} alt={dish.name} />

. .
```

• 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.

Mark as completed

