

Exercise (Instructions): Combining Reducers

Objectives and Outcomes

In this exercise you will learn about how we can have separate reducers managing parts of the state, and how they can be combined together to manage the whole state. At the end of this exercise you will be able to:

- Implement reducers that are responsible for only part of the state
- Combine the reducers to manage the entire state

Splitting the Reducer

- In the redux folder, create a new file named dishes.js and add the following to it:

```
1 import { DISHES } from '../shared/dishes';
2
3 export const Dishes = (state = DISHES, action) => {
4   switch (action.type) {
5     default:
6       return state;
7   }
8 };
```

- Then, create a file named comments.js and add the following to it:

```
1 import { COMMENTS } from '../shared/comments';
2
3 export const Comments = (state = COMMENTS, action) => {
4   switch (action.type) {
5
6     default:
7       return state;
8   }
9 };
```

- Similarly, create a new file named promotions.js and add the following to it:

```
1 import { PROMOTIONS } from '../shared/promotions';
2
3 export const Promotions = (state = PROMOTIONS, action) => {
4   switch (action.type) {
5     default:
6       return state;
7   }
8 };
```

- And finally, create a new file named leaders.js and add the following to it:

```

1 import { LEADERS } from '../shared/leaders';
2
3 export const Leaders = (state = LEADERS, action) => {
4   switch (action.type) {
5     default:
6       return state;
7   }
8 };

```

- Now that we have split the management of state into different reducers that manage partial state, we need to combine them together. Open configureStore.js and update it as follows:

```

1 import { createStore, combineReducers } from 'redux';
2 import { Dishes } from '../dishes';
3 import { Comments } from '../comments';
4 import { Promotions } from '../promotions';
5 import { Leaders } from '../leaders';
6
7 export const ConfigureStore = () => {
8   const store = createStore(
9     combineReducers({
10       dishes: Dishes,
11       comments: Comments,
12       promotions: Promotions,
13       leaders: Leaders
14     })
15   );
16
17   return store;
18 }

```

- Now we can safely delete the reducer.js file from the project.
- Save all the changes and do a Git commit with the message "Combining Reducers".

Conclusions

In this exercise we have learnt to split the reducer into multiple reducers that manage partial state, and then combine them together.