

Actions and reducers 101 lab

It's time to have our store handle changing data. We've dispatched a fake action but now let's create a reducer and some actions that actually do some useful work.

1. To keep our store clean, create a new file called reducers.js. Move the reducer out of store.js into reducers.js and export it properly. Don't forget that you'll need to import it in store.js now.

2. Add a new line inside your reducer:

```
console.log("In reducer", state, action);
```

3. Run and test to make sure your refactor hasn't broken anything.

Putting in some safeties

4. Add a check to your reducer at the top. If the action is undefined, return state unchanged. Or, if you'd prefer, give action a default value.
5. Add a switch statement to it, switching on action.type.
6. Put in a default that simply returns the old state unchanged.
7. Again, run and test. Your refactor is now safer but still doesn't do much. Let's fix that now.

Adding in your first case

8. Create a case in the switch to say that if the user dispatches a "SET_FILMS" action, we read the films payload and set that in state. Something like this should do the trick:

```
case "SET_FILMS":
```

```
  return {...state, films: action.films}
```

9. Now edit App.js. Find the useEffect. Add this inside of it:

```
fetch("/api/films")
```

```
.then(res=>res.json())
```

```
.then(films=>store.dispatch({type:"SET_FILMS",films}));
```

What we just did was send off a request to the API server for some data; a list of films. Then, when we get a response, convert it from a stream of JSON and dispatch an action to set those films.

10. Run and test. You should be seeing a list of films in your browser. Cool, right?

Adding in some new actions

11. This seems like a good time to add in actions that will be needed in the future. Go ahead and add these:

action.type	action.payload
SET_CURRENT_DATE	date
SET_CURRENT_FILM	film
SET_CURRENT_SHOWING	showing
SET_TABLES	tables
SET_THEATERS	theaters
SET_SEATS	seats
SET_SHOWINGS	showings
SET_USER	user

12. Bonus! Whenever you're ready, you can delete that fake dispatch that we added earlier for testing.