

## Reducers

Reducers sole function is to specify how the state / immutable Store changes in response to an Action. The reducer's job is to listen for all actions and then when it recognizes an action it performs a particular task that usually involves updating the immutable Store.

A every feature has it's own state folder and corresponding reducer.ts file. In the reducer file you can find the definition of the State name, the selectors and the reducer itself, which is the definition of how the actions affect state. The reducer definition is a switch statement that lists the response to every defined action.

Example of a reducer.ts file:

```
...luralSight\ngrxproject\snc\app\user\state\user.reducer.ts
```

```
31
```

```
1 Smooth ( User ) from "... Super":
 2 Smoort ( createfeatureSelector, createSelector ) from '@ngrx/store';
 3 Seport ( UserActions, UserActionTypes ) from './user.actions';
 5 export interface UserState (
 ď.
     mark@serName: boolean:
 7
     currentUser: User:
 currentUserAuthenticated: boolean:
 9 3
10
12 comst initialState: UserState = 6
13.
   marskillner/filme: tirue.
14 currentUser: mull.
   currentUsenAuthenticated: false
16 30
121
18 const getProductFeatureState = createFeatureSelector@uerStates('users');
1.0
10 export const getMaskiberName + createSelector(
21 getProductFeatureState,
200
     state to state-maskingerhame
23 31
24
15 export const getCurrentUser * createSelector(
266
     getProductFeatureState,
22
     state to state-currentUser
28 31
200
30 export const isCurrentUserAuthenticated * createSelector(
     petProductFeatureState,
100
     state +> state_currentUsenAuthenticated
33 31
340
35 export function reducer(state = initialState, action: UserActions): UserState (
100
    switch (action_type) (
307
10
        case UserActionTypes.ToggleNaskUserName:
300
         neture (
400
            .... state.
471
            maskOserName: action.payload
400
4.70
44
       case UserActionTypes.SetCurrentUser:
46%
         return (
400
            ALCOHOLD ...
407
           currentiber: { ...action.payload }
4.0
          3.1
400
10
        case UserActionTypes.ClearCurrentUser:
93.
         netween 4
10
            .... state,
```

```
export function reducer (
       state: ProductState = initialState,
       action: ProductActions ): ProductState {
   switch (action.type) {
       case ProductActionTypes.ToggleProductCode:
         return (
             ...state.
              showProductCode: action.payload
       Ŀ
       case ProductActionTypes.SetCurrentProduct:
         return (
             _state.
              currentProduct: [ ...action.payload ]
       Ŀ
       case ProductActionTypes.InitializeCurrentProduct:
         return (
             _state.
              currentProduct: {
                    id: 0.
                    productName: **,
                    productCode: 'New',
                    description:
       Ŀ
app > products > state > product.reducer.ts
```