EX11 - Redux toolkit

לאחר שיש לנו הבנת בסיס על REDUX נעבוד עם REDUX TOOLKIT שנותן לנו יותר כלים לעבודה, פונקציות מובנות ומאחד לנו את הכלים, וזו גם ההמלצה הרשמית לעבודה עם REDUX

מתוך האתר הרשמי של REDUX

Redux Toolkit is our official recommended approach for writing Redux logic. It wraps around the Redux core, and contains packages and functions that we think are essential for building a Redux app. Redux Toolkit builds in our suggested best practices, simplifies most Redux tasks, prevents common mistakes, and makes it easier to write Redux applications.

ההתקנה הנדרשת

npm install @reduxjs/toolkit

npm install react-redux

יצירת הSTORE

rtk\src\app\store.js

```
import {configureStore} from "@reduxjs/toolkit"
import counterReducer from "../features/counterSlice"

const store = configureStore({
    reducer:{
        counter: counterReducer
    }
})
export default store
```

rtk\src\features\couter\counterSlice.js

```
import {createSlice} from "@reduxjs/toolkit"
const counterInitState = {
   count: 0
const counterSlice = createSlice({
   name:"counter",
   initialState: counterInitState,
   reducers: {
        addOne: (state) =>{
            state.count +=1
        },
        minusOne: (state) =>{
            state.count -=1
        },
        reset: (state) =>{
           state.count = 0
        },
        addValue: (state, action) =>{
            state.count += Number( action.payload)
        }
    }
})
export const {addOne, minusOne , reset, addValue} =
counterSlice.actions
export default counterSlice.reducer
```

\rtk\src\index.js

```
import { useSelector, useDispatch } from "react-redux"
import { addOne, minusOne, reset, addValue } from
"./counterSlice"
import {useState} from "react"
const Counter = () => {
   const [val, setVal] = useState(0)
   const {count} = useSelector((state) => state.counter)
   const dispatch = useDispatch()
 return (
   <input onChange={ (e) =>setVal (e.target.value) } />
   <h1>Counter: {count}</h1>
   <button onClick={()=> dispatch(addOne())}>+</button>
   <button onClick={()=> dispatch(minusOne())}>-</button>
   <button onClick={()=> dispatch(reset())}>reset
    <button onClick={() => dispatch(addValue(val))}>add
value</button>
 )
export default Counter
```

REDUX TOOLKIT בפורמט הבא באמצעות STORE בפורמט

```
∨ rtk-temp

const state = {
                                                              > node modules
     user:{
                                                              > public
          name:"Ploni",
                                                             ∨ src
          email: "ploni@gmail.com"
                                                              ∨ app
                                                               JS store.js
     } ,

∨ component

     products:[
                                                              JS Layout.js
          {id:1, name:"Product1"},
                                                               JS Nav.js
          {id:2, name:"Product2"},

✓ fetures

     ],

∨ basket

     basket: [
                                                                JS BasketList.js
                                                                JS basketSlice.js
          {id:1, name:"Product1", quantity:2}

→ products

     1
                                                                JS AddProduct.js
                                                                JS ProductList.js
                                                                JS productSlice.js

∨ users

                                                                JS AddUser.js
                                                                JS userSlice.js
                                                              # App.css
                                                              JS App.js
                                                              JS index.js
```

הוסיפו את הפעולות הבאות:

-לעדכן את המשתמש -להוסיף מוצרים (מחיקת מוצרים אתגר) - להוסיף מוצרים לסל - ולנקות את הסל

```
userSlice actions: updateUser
productsSlice actions: addProduct, ( removeProduct )
basketsSlice actions: addBasketProduct, clearBasket
```