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NAVER 카페

구멍가게 코딩단

코드로 배우는 리액트

11. 리액트 장바구니 구성

11장. 리액트 장바구니 구성

- API 서버에 구성된 장바구니 관련 기능을 리액트를 이용해서 실제 화면을 구성
- 리덕스 툴킷을 이용해서 로그인 상황에 따라 장바구니에 상품을 추가하고 변경하는 등을 작업을 처리

개발목표

1. 리덕스 툴킷을 이용한 장바구니 상태 관리
2. API 서버와 장바구니 상태 동기화 처리

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11.4 상품 조회에서 장바구니 추가

API 서버와 통신

→ api 폴더에 cartApi.js를 추가



```
import jwtAxios from "../util/jwtUtil"
import { API_SERVER_HOST } from "../todoApi"

const host = `${API_SERVER_HOST}/api/cart`

export const getCartItems = async ( ) => {

  const res = await jwtAxios.get(`${host}/items`)
  return res.data

}

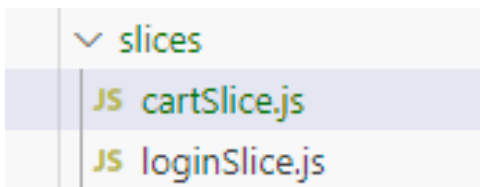
export const postChangeCart = async (cartItem) => {

  const res = await jwtAxios.post(`${host}/change`, cartItem)
  return res.data

}
```

API 서버와 통신

→ cartSlice의 작성 : cartSlice.js를 구성하고 store.js에 이를 추가



```
import { createAsyncThunk, createSlice } from "@reduxjs/toolkit";
import { getCartItems, postChangeCart } from "../api/cartApi";

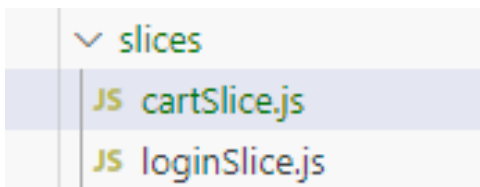
export const getCartItemsAsync = createAsyncThunk('getCartItemsAsync', () => {
  return getCartItems()
})

export const postChangeCartAsync = createAsyncThunk('postCartItemsAsync', (param)
=> {
  return postChangeCart(param)
})

const initState = []
```

API 서버와 통신

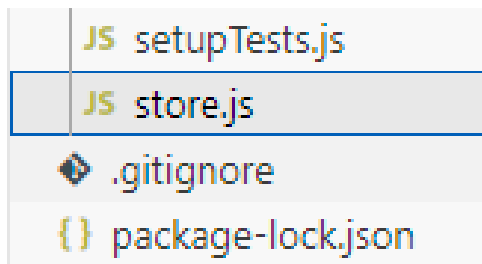
→ cartSlice의 작성 : cartSlice.js를 구성하고 store.js에 이를 추가



```
const cartSlice = createSlice({
  name: 'cartSlice',
  initialState: initState,
  extraReducers: (builder) => {
    builder.addCase(
      getCartItemsAsync.fulfilled, (state, action) => {
        console.log("getCartItemsAsync fulfilled")
        return action.payload
      }
    )
    .addCase(
      postChangeCartAsync.fulfilled, (state, action) => {
        console.log("postCartItemsAsync fulfilled")
        return action.payload
      }
    )
  }
})
export default cartSlice.reducer
```

API 서버와 통신

→ store.js에 cartSlice를 추가

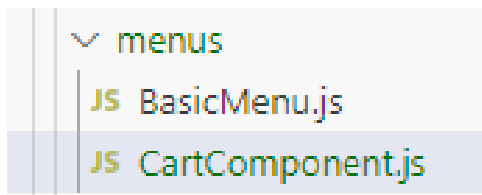


```
import { configureStore } from '@reduxjs/toolkit'
import loginSlice from './slices/loginSlice'
import cartSlice from './slices/cartSlice'

export default configureStore({
  reducer: {
    "loginSlice": loginSlice,
    "cartSlice" : cartSlice
  }
})
```

장바구니용 컴포넌트

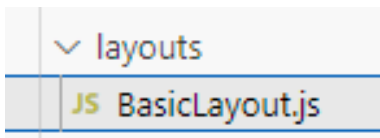
→ components/menus > CartComponent.js파일 추가



```
const CartComponent = () => {  
  return (  
    <div className="w-full">  
      <div>Cart</div>  
    </div>  
  );  
}  
  
export default CartComponent;
```


장바구니용 컴포넌트

→ BasicLayout내부에서 기본 레이아웃의 일부로 사용되도록 수정



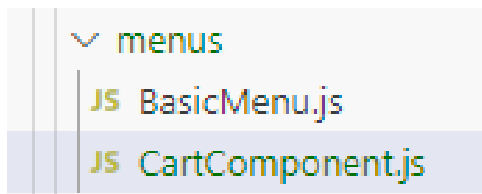
```
import BasicMenu from "../components/menus/BasicMenu";
import CartComponent from "../components/menus/CartComponent";

const BasicLayout = ({children}) => {
  return (
    <div className="bg-white my-5 w-full min-w-full flex flex-col space-y-1 md:flex-row md:space-x-1 md:space-y-0">
      <div className="bg-sky-300 md:w-2/3 lg:w-3/4 px-5 py-5">{children}</div>
      <div className="bg-green-300 md:w-1/3 lg:w-1/4 px-5 flex py-5"><CartComponent/></div>
    </div>
  );
};

export default BasicLayout;
```

장바구니용 컴포넌트

→ 로그인 상태 체크와 장바구니



```
import useCustomLogin from "../../hooks/useCustomLogin";

const CartComponent = () => {

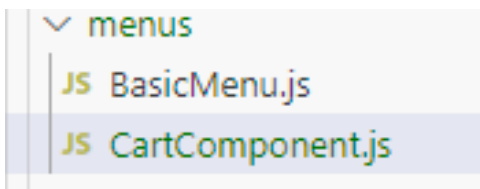
  const {isLogin, loginState} = useCustomLogin();

  return (
    <div className="w-full">
      {isLogin ?
        <div> {loginState.nickname}'s Cart</div>
        :
        <div></div>
      }
    </div>
  );
}

export default CartComponent;
```

장바구니용 컴포넌트

→ 장바구니 아이템 가져오기



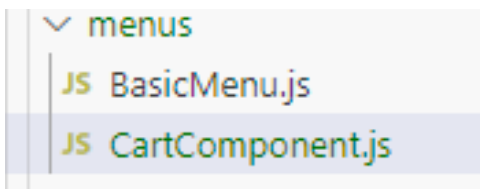
```
import { useEffect } from "react";
import useCustomLogin from "../../hooks/useCustomLogin";
import { getCartItemsAsync } from "../../slices/cartSlice";
import { useDispatch } from "react-redux";

const CartComponent = () => {
  const {isLogin, loginState} = useCustomLogin();
  const dispatch = useDispatch()
  useEffect(() => {
    if(isLogin) {
      dispatch(getCartItemsAsync())
    }
  },[isLogin])
  return (
    <div className="w-full">
      {isLogin ? <div> {loginState.nickname}'s Cart</div> : <div></div> }
    </div>
  );
}

export default CartComponent;
```

장바구니용 컴포넌트

→ 장바구니 아이템 개수 가져오기



```
import { useEffect } from "react";
import useCustomLogin from "../../hooks/useCustomLogin";
import { getCartItemsAsync } from "../../slices/cartSlice";
import { useDispatch, useSelector } from "react-redux";

const CartComponent = () => {

  const {isLogin, loginState} = useCustomLogin();

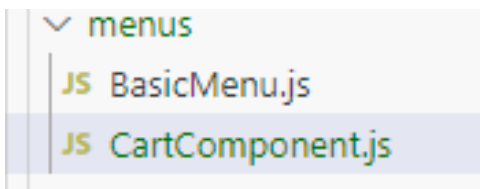
  const dispatch = useDispatch()

  const cartItems = useSelector(state => state.cartSlice)

  useEffect(() => {
    if(isLogin) {
      dispatch(getCartItemsAsync())
    }
  }, [isLogin])
}
```

장바구니용 컴포넌트

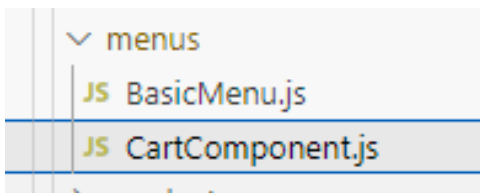
→ 장바구니 아이템 개수 가져오기



```
return (  
  <div className="w-full">  
    {isLoggedIn ?  
      <div className="flex">  
        <div className="m-2 font-extrabold">  
          {loginState.nickname}'s Cart  
        </div>  
        <div className="bg-orange-600 w-9 text-center text-white font-bold  
rounded-full m-2">{cartItems.length}</div>  
      </div>  
      :  
      <div></div>  
    }  
  </div>  
)  
};  
  
export default CartComponent;
```

장바구니용 컴포넌트

→ CartComponet는 작성된 useCustomCart를 이용하도록 수정



```
import { useEffect } from "react";
import useCustomLogin from "../../hooks/useCustomLogin";
import useCustomCart from "../../hooks/useCustomCart";

const CartComponent = () => {

  const {isLogin, loginState} = useCustomLogin()

  const {refreshCart, cartItems} = useCustomCart()

  useEffect(() => {

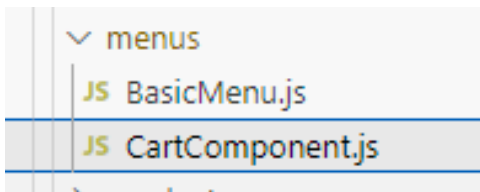
    if(isLogin) {

      refreshCart()
    }

  },[isLogin])
```

장바구니용 컴포넌트

→ CartComponet는 작성된 useCustomCart를 이용하도록 수정



```
return (  
  <div className="w-full">  
    {isLoggedIn ?  
  
      <div className="flex">  
        <div className="m-2 font-extrabold">  
          {loginState.nickname}'s Cart  
        </div>  
        <div className="bg-orange-600 w-9 text-center text-white font-bold  
rounded-full m-2">{cartItems.length}</div>  
      </div>  
      :  
      <div></div>  
    }  
  </div>  
>);  
}  
  
export default CartComponent;
```

장바구니 아이템 컴포넌트

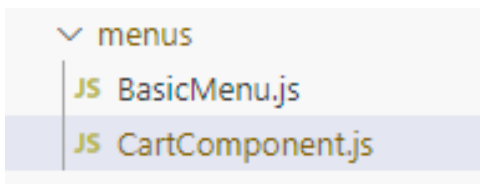
→ components > CartItemComponent 추가



```
const CartItemComponent = ({cino, pname, price, pno, qty, imageFile}) => {  
  return (  
    <div>{cino} -- {pname} </div>  
  );  
}  
  
export default CartItemComponent;
```


장바구니 아이템 컴포넌트

→ menus/CartComponent 에서 각 장바구니 아이템을 CartItemComponent로 출력



```
import { useEffect } from "react";
import useCustomLogin from "../../hooks/useCustomLogin";
import useCustomCart from "../../hooks/useCustomCart";
import CartItemComponent from "../cart/CartItemComponent";

const CartComponent = () => {

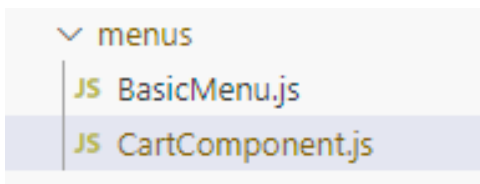
  const {isLogin, loginState} = useCustomLogin()

  const {refreshCart, cartItems} = useCustomCart()

  useEffect(() => {
    if(isLogin) {
      refreshCart()
    }
  }, [isLogin])
```

장바구니 아이템 컴포넌트

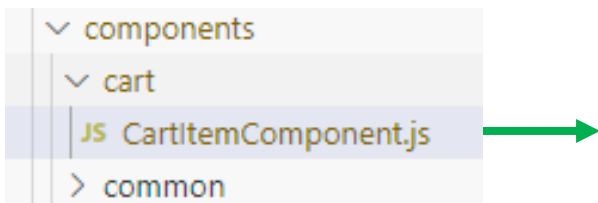
→ menus/CartComponent 에서 각 장바구니 아이템을 CartItemComponent로 출력



```
return (  
  <div className="w-full">  
    {isLogin ?  
      <div className="flex flex-col">  
        <div className="w-full flex">  
          <div className="font-extrabold text-2xl w-4/5"> {loginState.nickname}'s Cart </div>  
          <div className="bg-orange-600 text-center text-white font-bold w-1/5 rounded-full m-1">  
            {cartItems.length}  
          </div>  
        </div>  
        <div>  
          <ul> {cartItems.map( item => <CartItemComponent {...item} key={item.cino}/>)} </ul>  
        </div>  
      </div>  
      :  
      <></>  
    }  
  </div>  
}  
export default CartComponent;
```

장바구니 아이템 출력

→ cart/CartItemComponent.js



```
import { API_SERVER_HOST } from "../../api/todoApi";

const host = API_SERVER_HOST

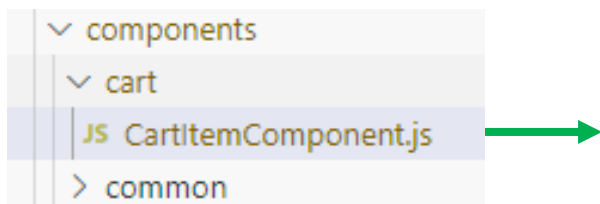
const CartItemComponent = ({cino, pname, price, pno, qty, imageFile}) => {

  const handleClickQty = (amount) => {
  }

  return (
    <li key={cino} className="border-2">
      <div className="w-full border-2">
        <div className="m-1 p-1 ">
          <img src={`${host}/api/products/view/s_${imageFile}`} />
        </div>
        <div className="justify-center p-2 text-xl ">
          <div className="justify-end w-full"> </div>
          <div>Cart Item No: {cino}</div>
          <div>Pno: {pno}</div>
          <div>Name: {pname}</div>
          <div>Price: {price}</div>
          <div className="flex ">
            <div className="w-2/3"> Qty: {qty} </div>
            <div>
              <button className="m-1 p-1 text-2xl bg-orange-500 w-8 rounded-lg"
                onClick={() => handleClickQty(1)} > + </button>
              <button className="m-1 p-1 text-2xl bg-orange-500 w-8 rounded-lg"
                onClick={() => handleClickQty(-1)} > - </button>
            </div>
          </div>
        </div>
      </li>
    )
  )
}
```

장바구니 아이템 출력

→ cart/CartItemComponent.js

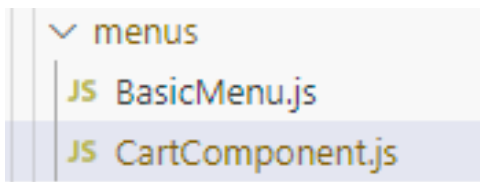


```
<div className="flex text-white font-bold p-2 justify-center">
  <button
    className="m-1 p-1 text-xl text-white bg-red-500 w-8 rounded-lg"
    onClick={() => handleClickQty(-1 * qty)}
  >
    X
  </button>
</div>
<div className='font-extrabold border-t-2 text-right m-2 pr-4'>
  {qty * price} 원
</div>
</div>
</div>
</li>
);
}

export default CartItemComponent;
```

장바구니 아이템 출력

→ 수량 변경 이벤트 처리



```
import { useEffect, useMemo } from "react";
import useCustomCart from "../../hooks/useCustomCart";
import CartItemComponent from "../cart/CartItemComponent";

const CartComponent = () => {

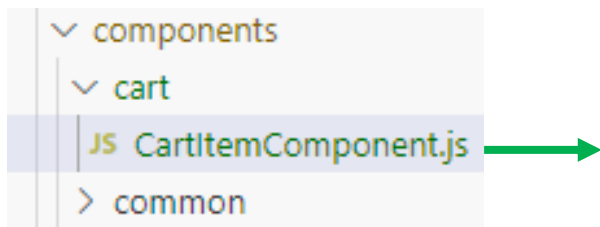
  ...생략
  const { refreshCart, cartItems, changeCart } = useCustomCart();

  ...

  <div>
    <ul>
      {cartItems.map( item =>
        <CartItemComponent {...item} key={item.cino}
        changeCart={changeCart} />
      )}
    </ul>
  </div>
```

장바구니 아이템 출력

→ 수량 변경 이벤트 처리



```
const CartItemComponent = ({cino, pname, price, pno, qty, imageFile,
changeCart}) => {

  const handleClickQty = (amount) => {

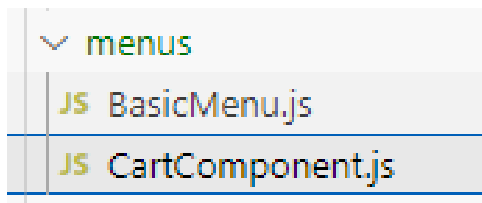
    changeCart({cino: cino, pno: pno, qty: qty + amount})

  }

  ...생략
```

장바구니 아이템 출력

→ 이메일 전달



```
<div>
  <ul>
    {cartItems.map( item =>
      <CartItemComponent {...item}
        key={item.cino}
        changeCart={changeCart}
        email={loginState.email}/>)}
    </ul>
  </div>
```

장바구니 아이템 출력

→ 이메일 전달



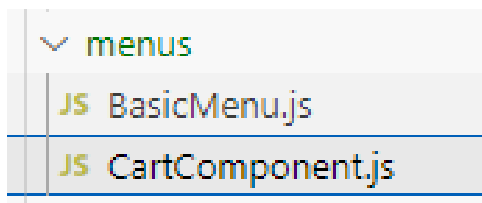
```
const CartItemComponent = ({cino, pname, price, pno, qty, imageFile,
changeCart, email}) => {

  const handleClickQty = (amount) => {

    changeCart({ email, cino, pno, qty: qty + amount})
  }
}
```


장바구니 아이템 출력

→ 이메일 전달



```
import { useEffect,useMemo } from "react";
import useCustomLogin from "../../hooks/useCustomLogin";
import useCustomCart from "../../hooks/useCustomCart";
import CartItemComponent from "../cart/CartItemComponent";

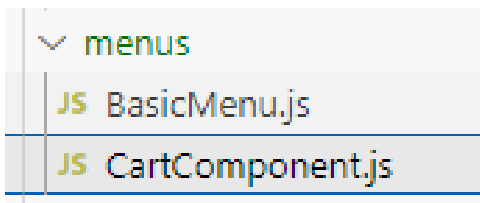
const CartComponent = () => {
  const {isLogin, loginState} = useCustomLogin()
  const {refreshCart, cartItems, changeCart } = useCustomCart()

  const total = useMemo(() => {
    let total = 0
    for(const item of cartItems) {
      total += item.price * item.qty
    }
    return total
  },[cartItems])

  useEffect(() => {
    if(isLogin) {
      refreshCart()
    }
  },[isLogin])
}
```

장바구니 아이템 출력

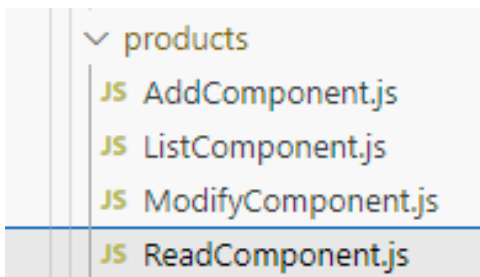
→ 이메일 전달



```
return (  
  <div className="w-full">  
    {isLogin ?  
      <div className="flex flex-col">  
        ...생략  
        <div>  
          <div className="text-2xl text-right font-extrabold">  
            TOTAL: {total}  
          </div>  
        </div>  
      </div>  
      :  
      <></>  
    }  
  </div>  
)  
);  
  
export default CartComponent;
```

상품 조회 기능 수정

→ components/products/ReadComponent.js 수정



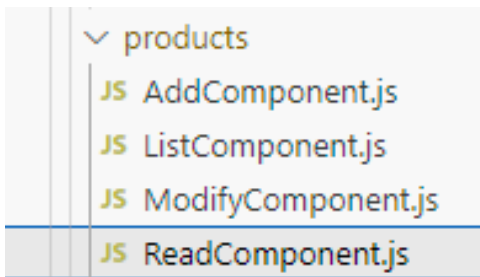
```
import { useEffect, useState } from "react"
import { getOne } from "../../api/productsApi"
import { API_SERVER_HOST } from "../../api/todoApi"
import useCustomMove from "../../hooks/useCustomMove"
import FetchingModal from "../../common/FetchingModal"
import useCustomCart from "../../hooks/useCustomCart"
import useCustomLogin from "../../hooks/useCustomLogin"

const initState = {
  pno: 0,
  pname: '',
  pdesc: '',
  price: 0,
  uploadFileNames: []
}

const host = API_SERVER_HOST
```

상품 조회 기능 수정

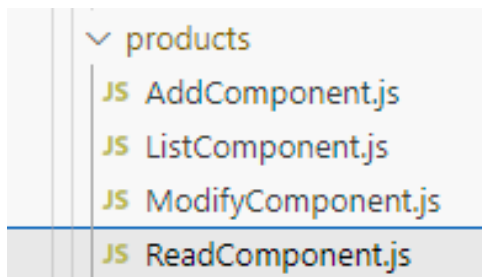
→ components/products/ReadComponent.js 수정



```
const ReadComponent = ({pno }) => {  
  
  const [product, setProduct] = useState(initState)  
  
  //화면 이동용 함수  
  const {moveToList, moveToModify} = useCustomMove()  
  
  //fetching  
  const [fetching, setFetching] = useState(false)  
  
  //장바구니 기능  
  const {changeCart, cartItems} = useCustomCart()  
  
  //로그인 정보  
  const {loginState} = useCustomLogin()
```

상품 조회 기능 수정

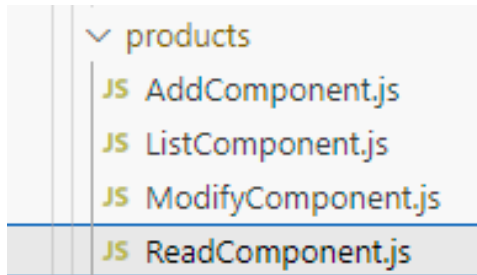
→ components/products/ReadComponent.js 수정



```
const handleClickAddCart = () => {  
  let qty = 1  
  const addedItem = cartItems.filter(item => item.pno === parseInt(pno))[0]  
  
  if(addedItem) {  
    if(window.confirm("이미 추가된 상품입니다. 추가하시겠습니까?") === false){  
      return  
    }  
    qty = addedItem.qty + 1  
  }  
  changeCart({email: loginState.email, pno:pno, qty:qty})  
}  
  
...생략...
```

상품 조회 기능 수정

→ components/products/ReadComponent.js 수정



```
<div className="flex justify-end p-4">
  <button type="button"
    className="inline-block rounded p-4 m-2 text-xl w-32 text-white bg-
green-500"
    onClick={handleClickAddCart} > Add Cart </button>
  <button type="button" onClick={() => moveToModify(pno)}
    className="inline-block rounded p-4 m-2 text-xl w-32 text-white bg-
red-500" > Modify </button>
  <button type="button" onClick={moveToList}
    className="rounded p-4 m-2 text-xl w-32 text-white bg-blue-500">
    List
  </button>
</div>
```

감사합니다.