

권채림 react crud 연습문제

2022-11-17

문제2 Student

App.js

```
import React, {memo} from 'react';
import {Routes, Route } from "react-router-dom";
import StudentAdd from './pages/StudentAdd';
import StudentEdit from './pages/StudentEdit';
import StudentList from './pages/StudentList';
import StudentView from './pages/StudentView';

const App = memo(() => {
  return (
    <div>
      <h1>Student</h1>

      <Routes>
        <Route path="/" exapt={true} element={<StudentList/>}/>
        <Route path="/student_add" element={<StudentAdd/>}/>
        <Route path="/student_view/:id" element={<StudentView/>}/>
        <Route path="/student_edit/:id" element={<StudentEdit/>}/>
      </Routes>
    </div>
  );
});

export default App;
```

index.js

```
import React from 'react';
import ReactDOM from 'react-dom/client';
// /*
import App from './App';
/*/
import App from './test';
/**/
import { BrowserRouter } from 'react-router-dom';
import { Provider } from 'react-redux';
import store from './store';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <Provider store={store}>
```

```

    <BrowserRouter>
      <App />
    </BrowserRouter>
  </Provider>
);

```

store.js

```

import { configureStore } from "@reduxjs/toolkit";
import StudentSlice from "../slices/StudentSlice";
const store = configureStore({
  reducer: {
    StudentSlice: StudentSlice,
  }
});

export default store;

```

StudentSlice.js

```

import { createSlice, createAsyncThunk } from '@reduxjs/toolkit'
import axios from 'axios';
import { pending, fulfilled, rejected } from '../helper/ReduxHelper';
import { cloneDeep } from 'lodash';

/** 다중행 데이터 조회를 위한 비동기 함수 */
export const getList = createAsyncThunk("StudentSlice/getList", async (payload, {rejectWithValue }) => {

  let result = null;
  const URL = process.env.REACT_APP_API_STUDENT_LIST;

  try {
    const response = await axios.get(URL);
    result = response.data;
  } catch (err) {
    result = rejectWithValue(err.response);
  }
  return result;
});

/** 단일행 데이터 조회를 위한 비동기 함수 */
export const getItem = createAsyncThunk("StudentSlice/getItem", async (payload, {rejectWithValue }) => {

  let result = null;

```

```
const URL = process.env.REACT_APP_API_STUDENT_ITEM.replace(':id', payload.id);
console.log(URL);
try {
  const response = await axios.get(URL);
  result = response.data;
} catch (err) {
  result = rejectWithValue(err.response);
}
return result;
});
```

/** 데이터 저장을 위한 비동기 함수 */

```
export const postItem = createAsyncThunk("StudentSlice/postItem", async (payload,
{rejectWithValue }) => {
```

```
  let result = null;
  const URL = process.env.REACT_APP_API_STUDENT_LIST;

  try {
    const response = await axios.post(URL, {
      name: payload.name,
      userid: payload.userid,
      grade: payload.grade,
      idnum: payload.idnum,
      birthdate: payload.birthdate,
      tel: payload.tel,
      height: payload.height,
      weight: payload.weight,
      deptno: payload.deptno,
      profno: payload.profno,
    });
    result = response.data;
  } catch (err) {
    result = rejectWithValue(err.response);
  }
  return result;
});
```

/** 데이터 수정을 위한 비동기 함수 */

```
export const putItem = createAsyncThunk("StudentSlice/putItem", async (payload,
{rejectWithValue }) => {
```

```
  let result = null;
  const URL = process.env.REACT_APP_API_STUDENT_ITEM.replace(':id', payload.id);

  try {
    const response = await axios.put(URL, {
      name: payload.name,
      userid: payload.userid,
      grade: payload.grade,
      idnum: payload.idnum,
      birthdate: payload.birthdate,
      tel: payload.tel,
      height: payload.height,
```

```

        weight: payload.weight,
        deptno: payload.deptno,
        profno: payload.profno,
    });
    result = response.data;
} catch (err) {
    result = rejectWithValue(err.response);
}
return result;
});

/** 데이터 삭제을 위한 비동기 함수 */
export const deleteItem = createAsyncThunk("StudentSlice/deleteItem", async
(payload, {rejectWithValue }) => {

    let result = null;
    const URL = process.env.REACT_APP_API_STUDENT_ITEM.replace(':id', payload.id);

    try {
        const response = await axios.delete(URL);
        result = response.data;
    } catch (err) {
        result = rejectWithValue(err.response);
    }
    return result;
});

const StudentSlice = createSlice({
    name: 'StudentSlice',

    initialState: {
        data: null,
        loading: false,
        error: null
    },
    reducers: {
        getCurrentData: (state, action) => {
            return state;
        }
    },
    extraReducers: {
        [getList.pending]: pending,
        [getList.fulfilled]: fulfilled,
        [getList.rejected]: rejected,

        [getItem.pending]: pending,
        [getItem.fulfilled]: (state, {meta, payload}) => {
            return {
                data: [payload],
                loading: false,
                error: null
            }
        }
    }
});

```

```

    }
  },
  [getItem.rejected]: rejected,

  [postItem.pending]: pending,
  [postItem.fulfilled]: (state, {meta, payload}) => {
    const data = cloneDeep(state.data);
    console.log("data", data);

    data.push(payload);

    return {
      data: data,
      loading: false,
      error: null
    }
  },
  [postItem.rejected]: rejected,

  [deleteItem.pending]: pending,
  [deleteItem.fulfilled]: (state, {meta, payload}) => {
    console.log("meta", meta);
    const data = cloneDeep(state.data);
    const targetId = data.findIndex((v, i) => v.id ===
Number(meta.arg.id));
    console.log("targetId", targetId);

    data.splice(targetId, 1);

    return {
      data: data,
      loading: false,
      error: null
    }
  },
  [deleteItem.rejected]: rejected,

  [putItem.pending]: pending,
  [putItem.fulfilled]: (state, {meta, payload}) => {
    const data = cloneDeep(state.data);
    const targetId = data.findIndex((v, i) => v.id ===
Number(meta.arg.id));
    console.log("targetId", targetId);

    data.splice(targetId, 1, payload);

    return {
      data: data,
      loading: false,
      error: null
    }
  },
  [putItem.rejected]: rejected,
},

```

```
});

export const {getCurrentData} = StudentSlice.actions;
export default StudentSlice.reducer;
```

StudentList.js

```
import React, {memo, useCallback} from 'react';
import { useDispatch, useSelector } from 'react-redux';
import { NavLink, useNavigate } from 'react-router-dom';
import Spinner from '../components/Spinner';
import ErrorView from '../components/ErrorView';
import Table from '../components/Table';
import { deleteItem, getList } from '../slices/StudentSlice';
import styled from 'styled-components';
import dayjs from 'dayjs';

const ControlContainer = styled.form`
  position: sticky;
  top:0;
  background-color: #fff;
  border-top: 1px solid #eee;
  border-bottom: 1px solid #eee;
  padding: 10px 0;

  .controll {
    margin-right: 5px;
    display: inline-block;
    font-size: 16px;
    padding: 7px 10px 5px 10px;
    border: 1px solid #ccc;
  }

  .clickable {
    background-color: #fff;
    color: #000;
    text-decoration: none;
    cursor: pointer;

    &:hover {
      background-color: #06fe06;
    }
    &:active {
      transform: scale(0.9, 0.9);
    }
  }
`;

const StudentList = memo(() => {
  const dispatch = useDispatch();
```

```

const {data, loading, error} = useSelector((state) => state.StudentSlice);

React.useEffect(()=>{
    dispatch(getList())
},[]);

const navigate = useNavigate();

const onStudentItemDelete = useCallback((e) => {
    e.preventDefault();

    const current = e.currentTarget;
    const { id, name} = current.dataset;

    if(window.confirm(`정말 ${name}(을)를 삭제하시겠습니까?`)) {
        dispatch(deleteItem({
            id: id
        }))
    }
}, []);

const onStudentEditClick = useCallback((e) => {
    e.preventDefault();

    const current = e.currentTarget;
    const {id} = current.dataset;

    navigate(`/student_edit/${id}`);
});

return(
    <div>
        {/* 로딩바 */}
        <Spinner loading={loading}/>
        {/* 추가탭 */}
        <ControlContainer>
            <NavLink to="student_add" className="controll clickable">학생정보 추
가하기</NavLink>
        </ControlContainer>

        {/* 조회결과 */}
        {error ? (
            <ErrorView error={error}/>
        ) : (
            data && (
                <Table>
                    <thead>
                        <tr>
                            <th>No.</th>
                            <th>이름</th>
                            <th>아이디</th>
                            <th>학년</th>
                            <th>학생번호</th>

```

```

        <th>생년월일</th>
        <th>연락처</th>
        <th>키</th>
        <th>무게</th>
        <th>학과번호</th>
        <th>담당교수번호</th>
        <th>수정</th>
        <th>삭제</th>
    </tr>
</thead>
<tbody>
    {
        data.length > 0 ? (
            data.map((v, i) => {
                return (
                    <tr key={v.id}>
                        <td>{v.id}</td>
                        <td>
                            <NavLink to=
{` /student_view/${v.id}`}>{v.name}</NavLink>
                        </td>
                        <td>{v.userid}</td>
                        <td>{v.grade}</td>
                        <td>{v.idnum}</td>
                        <td>
{dayjs(v.birthdate).format('YYYY-MM-DD')}</td>
                        <td>{v.tel}</td>
                        <td>{v.height}</td>
                        <td>{v.weight}</td>
                        <td>{v.deptno}</td>
                        <td>{v.profno}</td>
                        <td>
                            <button type='button' data-id =
{v.id} data-name={v.name} onClick={onStudentEditClick} >
                                수정하기
                            </button>
                        </td>
                        <td>
                            <button type='button' data-id =
{v.id} data-name={v.name} onClick={onStudentItemDelete}>
                                삭제하기
                            </button>
                        </td>
                    </tr>
                )
            })
        ):(
            <tr>
                <td colspan='11' align='center'>검색결과가
없습니다.</td>
            </tr>
        )
    }
</tbody>

```



```

        </Table>
      )
    })
  </div>
)
})

export default StudentList;

```

StudentAdd.js

```

import React, {memo, useCallback} from 'react';
import TableEx from '../components/TableEx';
import { useNavigate } from 'react-router-dom';
import { useSelector, useDispatch } from 'react-redux';
import { postItem } from '../slices/StudentSlice';
import Spinner from '../components/Spinner';
import ErrorView from '../components/ErrorView';

const StudentAdd = memo(() => {
  const navigate = useNavigate();

  const dispatch = useDispatch();
  const { loading, error } = useSelector((state) => state.StudentSlice);

  const onStudentSubmit = useCallback((e) => {
    e.preventDefault();

    const current = e.currentTarget;

    dispatch(postItem({
      name: current.name.value,
      userid: current.userid.value,
      grade: current.grade.value,
      idnum: current.idnum.value,
      birthdate: current.birthdate.value,
      tel: current.tel.value,
      height: current.height.value,
      weight: current.weight.value,
      deptno: current.deptno.value,
      profno: current.profno.value,
    })).then((result) => {
      console.log("result:", result);
      navigate(`/student_view/${result.payload.id}`);
    })
  }, [])

  return(
    <div>
      <Spinner loading={loading}/>

```

```

{error ? (
  <ErrorView error={error}/>
) : (
  <form onSubmit={onStudentSubmit}>
    <TableEx>
      <colgroup>
        <col width="120"/>
        <col/>
      </colgroup>
      <tbody>
        <tr>
          <th>이름</th>
          <td className='inputWrapper'>
            <input className="field" type="text" name="name"/>
          </td>
        </tr>
        <tr>
          <th>아이디</th>
          <td className='inputWrapper'>
            <input className="field" type="text"
name="userid"/>
          </td>
        </tr>
        <tr>
          <th>학년</th>
          <td className='inputWrapper'>
            <input className="field" type="text" name="grade"/>
          </td>
        </tr>
        <tr>
          <th>학생번호</th>
          <td className='inputWrapper'>
            <input className="field" type="text" name="idnum"/>
          </td>
        </tr>
        <tr>
          <th>생년월일</th>
          <td className='inputWrapper'>
            <input className="field" type="text"
name="birthdate"/>
          </td>
        </tr>
        <tr>
          <th>연락처</th>
          <td className='inputWrapper'>
            <input className="field" type="text" name="tel"/>
          </td>
        </tr>
        <tr>
          <th>키</th>
          <td className='inputWrapper'>
            <input className="field" type="text"
name="height"/>
          </td>
        </tr>
      </tbody>
    </TableEx>
  </form>
)

```

```

        </tr>
        <tr>
            <th>무게</th>
            <td className='inputWrapper'>
                <input className="field" type="text"
name="weight"/>
            </td>
        </tr>
        <tr>
            <th>학과번호</th>
            <td className='inputWrapper'>
                <input className="field" type="text"
name="deptno"/>
            </td>
        </tr>
        <tr>
            <th>담당교수번호</th>
            <td className='inputWrapper'>
                <input className="field" type="text"
name="profno"/>
            </td>
        </tr>
    </tbody>
</TableEx>

    <div style={{textAlign: 'center'}}>
        <button type='submit'>저장하기</button>
    </div>
</form>

    )}
</div>
)
})

export default StudentAdd;

```

StudentEdit.js

```

import React, {memo, useCallback, useEffect, useMemo} from 'react';
import TableEx from '../components/TableEx';
import { useNavigate, useParams } from 'react-router-dom';
import { useSelector, useDispatch } from 'react-redux';
import { getCurrentData, getItem, putItem } from '../slices/StudentSlice';
import Spinner from '../components/Spinner';
import ErrorView from '../components/ErrorView';
import dayjs from 'dayjs';

const StudentEdit = memo(() => {
    const { id } = useParams();

```

```

const dispatch = useDispatch();
const { data, loading, error } = useSelector((state) => state.StudentSlice);

useEffect(() => {
  dispatch(getCurrentData());
}, []);

const item = useMemo(() => {
  if(data) {
    return data.find((v, i) => v.id == id);
  } else {
    dispatch(getItem({id:id}));
  }
}, [data])

const navigate = useNavigate();

const onStudentSubmit = useCallback((e) => {
  e.preventDefault();

  const current = e.currentTarget;
  console.log(current.name.value);
  dispatch(putItem({
    id: current.id.value,
    name: current.name.value,
    userid: current.userid.value,
    grade: current.grade.value,
    idnum: current.idnum.value,
    birthdate: current.birthdate.value,
    tel: current.tel.value,
    height: current.height.value,
    weight: current.weight.value,
    deptno: current.deptno.value,
    profno: current.profno.value,
  })).then((result) => {
    console.log("result:", result);
    navigate(`/student_view/${result.payload.id}`);
  })
}, [])

return(
  <div>
    <Spinner loading={loading}/>
    {error ? (
      <ErrorView error={error}/>
    ) : (
      <form onSubmit={onStudentSubmit}>
        <input type="hidden" name="id" defaultValue={item?.id} />
        <TableEx>
          <colgroup>
            <col width="120"/>
            <col/>
          </colgroup>

```

```

        <tbody>
          <tr>
            <th>이름</th>
            <td className='inputWrapper'>
              <input className="field" type="text" name="name"
defaultValue={item?.name}/>
            </td>
          </tr>
          <tr>
            <th>아이디</th>
            <td className='inputWrapper'>
              <input className="field" type="text" name="userid"
defaultValue={item?.userid}/>
            </td>
          </tr>
          <tr>
            <th>학년</th>
            <td className='inputWrapper'>
              <input className="field" type="text" name="grade"
defaultValue={item?.grade}/>
            </td>
          </tr>
          <tr>
            <th>학생번호</th>
            <td className='inputWrapper'>
              <input className="field" type="text" name="idnum"
defaultValue={item?.idnum}/>
            </td>
          </tr>
          <tr>
            <th>생년월일</th>
            <td className='inputWrapper'>
              <input className="field" type="text"
name="birthdate" defaultValue={dayjs(item?.birthdate).format('YYYY-MM-DD')}/>
            </td>
          </tr>
          <tr>
            <th>연락처</th>
            <td className='inputWrapper'>
              <input className="field" type="text" name="tel"
defaultValue={item?.tel}/>
            </td>
          </tr>
          <tr>
            <th>키</th>
            <td className='inputWrapper'>
              <input className="field" type="text" name="height"
defaultValue={item?.height}/>
            </td>
          </tr>
          <tr>
            <th>무게</th>
            <td className='inputWrapper'>
              <input className="field" type="text" name="weight"

```

```

        defaultValue={item?.weight}/>
      </td>
    </tr>
  <tr>
    <th>학과번호</th>
    <td className='inputWrapper'>
      <input className="field" type="text" name="deptno"
        defaultValue={item?.deptno}/>
    </td>
  </tr>
  <tr>
    <th>담당교수번호</th>
    <td className='inputWrapper'>
      <input className="field" type="text" name="profno"
        defaultValue={item?.profno}/>
    </td>
  </tr>
</tbody>
</TableEx>

    <div style={{textAlign: 'center'}}>
      <button type='submit'>저장하기</button>
    </div>
  </form>

  )}
</div>
)
})

export default StudentEdit;

```

StudnetView.js

```

import React, {memo, useCallback, useEffect, useMemo} from 'react';
import { NavLink, useParams, useNavigate } from 'react-router-dom';
import { useSelector, useDispatch } from 'react-redux';
import { getCurrentData, deleteItem, getItem } from '../slices/StudentSlice';

import Spinner from '../components/Spinner';
import ErrorView from '../components/ErrorView';
import Table from '../components/Table';
import dayjs from 'dayjs';

const StudentView = memo(() => {
  const {id} = useParams();

  const dispatch = useDispatch();
  const { data, loading, error } = useSelector((state) => state.StudentSlice);

```

```

useEffect(()=>{
    dispatch(getCurrentData());
}, [])

const item = useMemo(() => {
    if(data) {
        return data.find((v,i)=> v.id == id);
    } else {
        dispatch(getItem({id: id}));
    }
}, [data]);

const navigate = useNavigate();

const onStudentItemDelete = useCallback((e) => {
    e.preventDefault();

    const current = e.currentTarget;
    const { id, name} = current.dataset;

    if(window.confirm(`정말 ${name}(을)를 삭제하시겠습니까?`)) {
        dispatch(deleteItem({
            id: id
        })).then(({meta, payload}) => {
            navigate('/');
        })
    }
}, []);

return(
    <div>
        <Spinner loading={loading}/>
        {error ? (
            <ErrorView error={error}/>
        ) : (
            item && (
                <div>
                    <Table>
                        <colgroup>
                            <col width="120"/>
                            <col/>
                        </colgroup>
                        <tbody>
                            <tr>
                                <th>No.</th>
                                <td>{item.id}</td>
                            </tr>
                            <tr>
                                <th>이름</th>
                                <td>{item.name}</td>
                            </tr>
                            <tr>

```

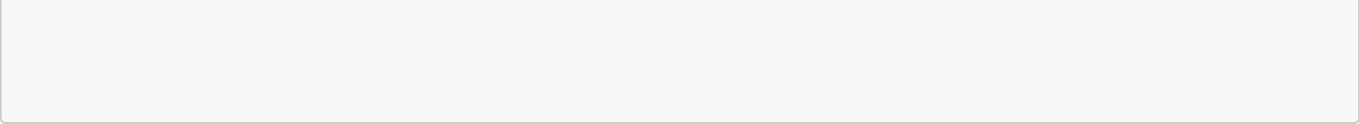
```

        <th>아이디</th>
        <td>{item.userid}</td>
    </tr>
    <tr>
        <th>학년</th>
        <td>{item.grade}</td>
    </tr>
    <tr>
        <th>학생번호</th>
        <td>{item.idnum}</td>
    </tr>
    <tr>
        <th>생년월일</th>
        <td>{dayjs(item.birthdate).format('YYYY-MM-DD')}</td>
    </tr>
    <tr>
        <th>키</th>
        <td>{item.height}</td>
    </tr>
    <tr>
        <th>무게</th>
        <td>{item.weight}</td>
    </tr>
    <tr>
        <th>학과번호</th>
        <td>{item.deptno}</td>
    </tr>
    <tr>
        <th>담당교수번호</th>
        <td>{item.profno}</td>
    </tr>
</tbody>
</Table>

<div style={{textAlign: 'center'}}>
    <NavLink to="/">목록</NavLink>
    &nbsp;|&nbsp;
    <NavLink to="/student_add">등록</NavLink>
    &nbsp;|&nbsp;
    <NavLink to={` /student_edit/${item.id}`}>수정</NavLink>
    &nbsp;|&nbsp;
    <NavLink to="#!" data-id = {item.id} data-name=
{item.name} onClick={onStudentItemDelete}>삭제</NavLink>
</div>
</div>
    )
  })
</div>
)
})

export default StudentView;

```

←

→

↺

🏠

📄 localhost:3000

🔍

🔗

☆

⚙️

☰

□

🟡

⋮

Student

학생정보 추가하기

No.	이름	아이디	학년	학생번호	생년월일	연락처	키	무게	학과번호	담당교수번호	수정	삭제
10101	전인하	jun123	4	7907021369824	1979-07-02	051)781-2158	176	72	101	9903	<div>수정하기</div>	<div>삭제하기</div>
10102	박미경	ansel414	1	8405162123648	1984-05-16	055)261-8947	168	52	101		<div>수정하기</div>	<div>삭제하기</div>
10103	김영균	mandu	3	8103211063421	1981-03-21	051)824-9637	170	88	101	9906	<div>수정하기</div>	<div>삭제하기</div>
10104	지은경	gomo00	2	8004122298371	1980-04-12	055)418-9627	161	42	101	9907	<div>수정하기</div>	<div>삭제하기</div>
10105	임유진	youjin12	2	8301212196482	1983-01-21	02)312-9838	171	54	101	9907	<div>수정하기</div>	<div>삭제하기</div>
10106	서재진	seolly	1	8511291186273	1985-11-29	051)239-4861	186	72	101		<div>수정하기</div>	<div>삭제하기</div>
10107	이광훈	huriky	4	8109131276431	1981-09-13	055)736-4981	175	92	101	9903	<div>수정하기</div>	<div>삭제하기</div>
10108	류민정	cleansky	2	8108192157498	1981-08-19	055)248-3679	162	72	101	9907	<div>수정하기</div>	<div>삭제하기</div>
10201	김진영	simply	2	8206062186327	1982-06-06	055)419-6328	164	48	102	9905	<div>수정하기</div>	<div>삭제하기</div>
10202	오유석	yousuk	4	7709121128379	1977-09-12	051)724-9618	177	92	102	9905	<div>수정하기</div>	<div>삭제하기</div>
10203	하나리	hanal	1	8501092378641	1985-01-09	055)296-3784	160	68	102		<div>수정하기</div>	<div>삭제하기</div>
10204	윤진욱	samba7	3	7904021358671	1979-04-02	053)487-2698	171	70	102	9905	<div>수정하기</div>	<div>삭제하기</div>
20101	이동훈	dals	1	8312101128467	1983-12-10	055)426-1752	172	64	201		<div>수정하기</div>	<div>삭제하기</div>
20102	박동진	ping2	1	8511241639826	1985-11-24	051)742-6384	182	70	201		<div>수정하기</div>	<div>삭제하기</div>
20103	김진경	lovely	2	8302282169387	1983-02-28	052)175-3941	166	51	201	9902	<div>수정하기</div>	<div>삭제하기</div>
20104	조명훈	rader214	1	8412141254963	1984-12-14	02)785-6984	184	62	201		<div>수정하기</div>	<div>삭제하기</div>

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📄 localhost:3000/student_add

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Student

이름	권채림
아이디	test
학년	
학생번호	
생년월일	
연락처	
키	
무게	
학과번호	
담당교수번호	

저장하기

localhost:3000/student_view/20105

Student

No.	20105
이름	권채림
아이디	test
학년	5
학생번호	11
생년월일	1994-12-28
키	158
무게	60
학과번호	101
담당교수번호	9901

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localhost:3000/student_edit/20105

Student

이름	권채림22
아이디	test
학년	5
학생번호	11
생년월일	1994-12-28
연락처	01049274103
키	158
무게	60
학과번호	101
담당교수번호	9901

저장하기

localhost:3000 내용:

취소

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