

Exam09

Exam 09

102 ▼

학생목록

학번	이름	아이디	학년	주민번호	생년월일	연락처	키	몸무게	소속학과번호	담당교수번호
10201	김진영	simply	2	820606-*****	1982-06-05	055)419-6328	164	48	102	9905
10202	오유석	yousuk	4	770912-*****	1977-09-11	051)724-9618	177	92	102	9905
10203	하나리	hanal	1	850109-*****	1985-01-08	055)296-3784	160	68	102	
10204	윤진욱	samba7	3	790402-*****	1979-04-01	053)487-2698	171	70	102	9905

교수목록

교수번호	이름	아이디	직급	급여	입사일	보직수당	소속학과번호
9904	염일웅	blue77	전임강사	240	1998-10-10		102
9905	권혁일	refresh	교수	450	1986-02-10	25	102

App.js

```
import React, { useState } from 'react';
import axios from 'axios';

import Spinner from './components/Spinner';
import Professor from './components/Professor';
import Student from './components/Student';

function App() {
  const [ department, setDepartment ] = useState([]);
  const [ loading, setLoading ] = useState(false);
  const [ selectedDeptno, setSelectedDeptno ] = useState(-1);

  React.useEffect(()=>{
    setLoading(loading=>true);

    (async())=>{
      let json=null;
      try {
        const respons = await axios.get('http://localhost:3001/department');
        json=respons.data;
      } catch (e) {
        console.error(e);
        alert('ajax통신 실패');
      }finally{
```

```

        setLoading(loading=>false);
    }

    if(json !==null){
        setDepartment(department=>json);
    }

    })();
},[]);

//select값이 변경되면 선택된 학과의 학과번호를 저장-->props로 전달할 데이터
const selectDepartment=React.useCallback((e)=>{
    // let {deptno}=e.target.dataset;
    // setSelectedDeptno(selectedDeptno=>deptno);
    // setSelectedDeptno(selectedDeptno=>e.target.value);

    const current= e.target;
    const id=parseInt(current[current.selectedIndex].value);
    setSelectedDeptno(id);
});

return (
    <>
        <h1>Exam 09</h1>
        <hr />
        <Spinner visible={loading}/>
        <select name="" id="" onChange={selectDepartment}>
            {
                department.map((v,i)=>{
                    return(
                        // <option key={i} data-deptno={v.id}>{v.dname}</option>
                        <option key={v.id} value={v.id}>{v.dname}</option>
                    )
                })
            }
        </select>
        <Student deptno={selectedDeptno}/>
        <Professor deptno={selectedDeptno}/>
    </>
);
}
export default App;

```

Spinner.js

```

/**
 * @filename Spinner.js
 * @description react-loader-spinner라이브러리 활용 로딩바 구현
 * @reference https://mhnpd.github.io/react-loader-spinner/
 * @install yarn add react-loader-spinner

```

```
*/

import React from "react";
import PropTypes from "prop-types";
import styled from "styled-components";
import { Grid } from "react-loader-spinner";

const TransLayer = styled.div`
  position: fixed;
  left: 0;
  top: 0;
  z-index: 9999;
  background-color: #0003;
  width: 100%;
  height: 100%;
`;

const Spinner = ({ visible, color, width, height }) => {
  return (
    <>
    {visible && (
      <TransLayer>
        <Grid
          height={height}
          width={width}
          color={color}
          ariaLabel="loading-indicator"
          wrapperStyle={{
            position: "absolute",
            zIndex: "50%",
            left: "50%",
            top: "50%",
            marginLeft: -width / 2 + "px",
            marginTop: -height / 2 + "px",
          }}
        />
      </TransLayer>
    )}
    </>
  );
};

Spinner.defaultProps = {
  visible: false,
  color: "#06f",
  width: 100,
  height: 100,
};

Spinner.propTypes = {
  visible: PropTypes.bool.isRequired,
  color: PropTypes.string,
  width: PropTypes.number,
  height: PropTypes.number,
};
```

```
export default Spinner;
```

Student.js

```
import axios from 'axios';
import React, { useState } from 'react';
import styled from 'styled-components';
import PropTypes from 'prop-types';
import Spinner from './Spinner';

const StudentContainer=styled.div`
  width: 100%;
`;

const Student = ({deptno}) => {
  const [loading, setLoading] = useState(false);
  const thead=[ '학번', '이름', '아이디', '학년', '주민번호', '생년월일', '연락처', '키', '몸무게', '소속학과번호', '담당교수번호'];
  const [tbody,setTbody] = useState([]);

  React.useEffect(()=>{
    setLoading(true);

    (async())=>{
      let json=null;
      try {
        const response = await axios.get(`http://localhost:3001/student?deptno=${deptno}`);
        json=response.data;
        // console.log(json);
      } catch (e) {
        console.error(e);
        alert('ajax 통신 실패');
      }finally{
        setLoading(false);
      }
      if( json != null){
        setTbody(tbody=>json);
        // console.log(tbody);
      }
    })();
  },[deptno]);

  return (
    <StudentContainer>
      <Spinner visible={loading}/>
      <h1>학생목록</h1>
      <table border={1}>
        <thead>
```

```

        <tr>
        {
          thead.map((v,i)=><th key={i}>{v}</th>)
        }
      </tr>
    </thead>
    <tbody>
    {
      tbody.map((v,i)=>{
        return(
          <tr key={i}>
            <td>{v.id}</td>
            <td>{v.name}</td>
            <td>{v.userid}</td>
            <td>{v.grade}</td>
            <td>{v.idnum.slice(0,6) + '-*****'}</td>
            <td>{v.birthdate.slice(0,10)}</td>
            <td>{v.tel}</td>
            <td>{v.height}</td>
            <td>{v.weight}</td>
            <td>{v.deptno}</td>
            <td>{v.profno}</td>
          </tr>
        )
      })
    }
  </tbody>
</table>
</StudentContainer>
);
};

Student.propTypes={
  deptno:PropTypes.number.isRequired
}

export default Student;

```

Professor.js

```

import axios from 'axios';
import React, { useState } from 'react';
import styled from 'styled-components';
import PropTypes from 'prop-types';
import Spinner from './Spinner';

const ProfessorContainer=styled.div`

`;

const Professor = ({deptno}) => {

```

```

const [loading, setLoading] = useState(false);
const thead = ['교수번호', '이름', '아이디', '직급', '급여', '입사일', '보직수당', '소속학과
번호'];
const [tbody, setTbody] = useState([]);

React.useEffect(() => {
  setLoading(true);

  (async () => {
    let json = null;
    try {
      const response = await axios.get(`http://localhost:3001/professor?
deptno=${deptno}`);
      json = response.data;
      // console.log(json);
    } catch (e) {
      console.error(e);
      alert('ajax 통신 실패');
    } finally {
      setLoading(false);
    }
    if (json !== null) {
      setTbody(tbody => json);
      console.log(tbody);
    }
  })();
}, [deptno]);

return (
  <ProfessorContainer>
    <Spinner visible={loading}/>
    <h1>교수목록</h1>
    <table border={1}>
      <thead>
        <tr>
          {
            thead.map((v, i) => <th key={i}>{v}</th>)
          }
        </tr>
      </thead>
      <tbody>
        {
          tbody.map((v, i) => {
            return (
              <tr key={i}>
                <td>{v.id}</td>
                <td>{v.name}</td>
                <td>{v.userid}</td>
                <td>{v.position}</td>
                <td>{v.sal}</td>
                <td>{v.hiredate.slice(0, 10)}</td>
                <td>{v.comm}</td>
                <td>{v.deptno}</td>
              </tr>
            )
          })
        }
      </tbody>
    </table>
  </ProfessorContainer>
);

```

```
        )
      })
    }
    </tbody>
  </table>

  </ProfessorContainer>
);
};

Professor.propTypes={
  deptno:PropTypes.number.isRequired
}

export default Professor;
```