LAPORAN MATA KULIAH
PEMROGAMAN BERBASIS FRAMEWORK
" MODUL 4 "

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PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

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listMahasiswa.json

```
(base) ivans-MacBook-Pro:mmodul4 ivancrisnanda$ json-server --watch listMahasiswa.json

  \{^_^}/ hi!

  Loading listMahasiswa.json
  Oops, listMahasiswa.json doesn't seem to exist
  Creating listMahasiswa.json with some default data

  Done

  Resources
  http://localhost:3000/posts
  http://localhost:3000/comments
  http://localhost:3000/profile

  Home
  http://localhost:3000
```

```json
listMahasiswa.json                    ×
1   {
2     "mhs": [
3       {
4         "userId": 1,
5         "nim": "1741720024",
6         "nama": "ivan crisnanda",
7         "alamat": "donayan",
8         "hp": "081231672170",
9         "angkatan": "2017",
10        "status": "Aktif",
11        "id": 2
12      }
13    ],
14    "comments": [],
15    "profile": {
16      "name": "typicode"
17    }
18  }
```

Index.js

```js
index.js                    ×
1   import React from 'react';
2   import ReactDOM from 'react-dom';
3   import './index.css';
4   import App from './App';
5   import * as serviceWorker from './serviceWorker';
6   import HelloComponent from './component/HelloComponent';
7   import StatefullComponent from './container/StatefullComponent';
8   import Login from './container/Login';
9   import BlogPost from './container/BlogPost/BlogPost';
10  import MhsPost from './container/MhsPost/MhsPost';
11  // function HelloWorld(){
12  //     return <p> ini adalah function component </p>
13  // }
14
15  // const HelloWorld = () => {
16  //     return <p> ini adalah arrow function </p>
17  // }
18
19  // class Statefull extends React.Component {
20  //     render(){
21  //     return <h1>Hello, {this.props.name}</h1>
22  //     }
23  // }
24
25  ReactDOM.render(<MhsPost />, document.getElementById('root'));
26
27  // If you want your app to work offline and load faster, you can change
28  // unregister() to register() below. Note this comes with some pitfalls.
29  // Learn more about service workers: https://bit.ly/CRA-PWA
30  serviceWorker.unregister();
```

Index.css

```css
body {
  margin: 0;
  font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', 'Roboto', 'Oxygen',
    'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', 'Helvetica Neue',
    sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
}

code {
  font-family: source-code-pro, Menlo, Monaco, Consolas, 'Courier New',
    monospace;
}
#sidebar {
  background-color: blanchedalmond;
  padding: 10px;
}
#content {
  background-color: lightblue;
}
```

MhsPost.jsx

```jsx
import React, {Component} from 'react';
import './MhsPost.css';
import Mhs from '../../component/MhsPost/Mhs';
class MhsPost extends Component {
    state = {
        listMhs: [],
        insertMhs : {
            userId: 1,
            id: 1,
            nim: "",
            nama: "",
            alamat: "",
            hp: "",
            angkatan: "",
            status: ""
        }
    }
    ambilDataDariServerAPI = () => {
        fetch('http://localhost:3002/mhs?_sort=id&_order=desc')
            .then(response => response.json())
            .then(jsonHasilAmbilDariApi => {
                this.setState({
                    listMhs: jsonHasilAmbilDariApi
                })
            })
    }
    componentDidMount() {
        this.ambilDataDariServerAPI()
    }
    handleHapusMhs = (data) => {
        fetch(`http://localhost:3002/mhs/${data}`,
        {method: 'DELETE'})
            .then(res => {
                this.ambilDataDariServerAPI()
            })
    }
    handleTambahMhs = (event) => {
        let forminsertMhs = {...this.state.insertMhs};
        let timestamp = new Date().getTime();
        forminsertMhs['id'] = timestamp;
        forminsertMhs[event.target.name] = event.target.value;
        this.setState({
            insertMhs: forminsertMhs
        });
    }
    handleTombolSimpan = () => {
        fetch('http://localhost:3002/mhs',{
            method: 'post',
            headers: {
                'Accept': 'application/json',
                'Content-Type': 'application/json'
            },
            body: JSON.stringify(this.state.insertMhs)
        })
            .then((Response) => {
                this.ambilDataDariServerAPI();
            });
    }
    render() {
        return (
            <div className="post-mhs">
                <div className="form pb-2 border-bottom">
                    <div className="form-group row">
                        <label htmlFor="nim" className="col-sm-2 col-form-label">NIM</label>
                        <div className="col-sm-10">
                            <input type="text" className="form-control" id="nim" name="nim"
                            onChange={this.handleTambahMhs}/>
                        </div>
                    </div>
                    <div className="form-group row">
                        <label htmlFor="nama" className="col-sm-2 col-form-label">Nama</label>
                        <div className="col-sm-10">
                            <input type="text" className="form-control" id="nama" name="nama"
                            onChange={this.handleTambahMhs}/>
                        </div>
                    </div>
                    <div className="form-group row">
                        <label htmlFor="alamat" className="col-sm-2 col-form-label">Alamat</label>
                        <div className="col-sm-10">
                            <input type="text" className="form-control" id="alamat" name="alamat"
                            onChange={this.handleTambahMhs}/>
                        </div>
                    </div>
                    <div className="form-group row">
                        <label htmlFor="hp" className="col-sm-2 col-form-label">Hp</label>
                        <div className="col-sm-10">
                            <input type="text" className="form-control" id="hp" name="hp"
                            onChange={this.handleTambahMhs}/>
                        </div>
                    </div>
                    <div className="form-group row">
                        <label htmlFor="angkatan" className="col-sm-2 col-form-label">Angkatan</label>
                        <div className="col-sm-10">
                            <input type="text" className="form-control" id="angkatan" name="angkatan"
                            onChange={this.handleTambahMhs}/>
                        </div>
                    </div>
                    <div className="form-group row">
                        <label htmlFor="status" className="col-sm-2 col-form-label">Status</label>
                        <div className="col-sm-10">
```
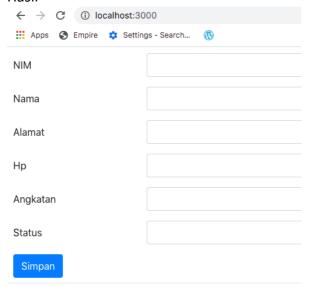
```
                                <input type="text" className="form-control" id="status" name="status"
                                    onChange={this.handleTambahMhs}/>
                            </div>
                        </div>
                        <button type="submit" className="btn btn-primary"
                            onClick={this.handleTombolSimpan}>Simpan</button>
                    </div>
                    <h2>Daftar Mahasiswa</h2>
                    {
                        this.state.listMhs.map(mhs => {
                            return <Mhs
                                key={mhs.id}
                                nim={mhs.nim}
                                nama={mhs.nama}
                                alamat={mhs.alamat}
                                hp={mhs.hp}
                                angkatan={mhs.angkatan}
                                status={mhs.status}
                                idMhs={mhs.id}
                                hapusMhs={this.handleHapusMhs}
                                />
                        })
                    }
                </div>
            )
        }
    }
export default MhsPost;
```

MhsPost.css

```css
.mhs-mhs {
    padding: 10px;
}
.mhs {
    width: 100%;
    padding: 10px;
    border: 1px solid blue;
    border-radius: 4px;
    margin-bottom: 10px;
    box-shadow: 0 0 16px rgba(0, 0, 0, 0.5);
    display: flex;
}
.gambar-mhs {
    height: 240px;
    width: 240px;
    margin-right: 10px;
    vertical-align: top;
}
.gambar-mhs img {
    width: 100%;
    height: 100%;
    object-fit: cover;
}
.konten-mhs {
    flex: 1;
}
.konten-mhs div.judul-mhs {
    font-size: 20px;
    font-weight: bold;
    margin-bottom: 10px;
}
.konten-mhs p.isi-mhs {
    font-size: 16px;
    margin-bottom: 10px;
}
.form {
    padding: 10px;
}
```

Mhs.jsx

```jsx
import React from 'react';
const Mhs = (props) => {
    return (
        <div className="mhs-mhs">
            <div className="mhs">
                <div className="gambar-mhs">
                    <img src="http://placeimg.com/80/80/tech" alt="Gambar Tumbnail Mhs"/>
                </div>
                <div className="konten-mhs">
                    <table className="table table-borderless table-sm">
                        <tr>
                            <td>NIM</td>
                            <td>:</td>
                            <td>{props.nim}</td>
                        </tr>
                        <tr>
                            <td>Nama</td>
                            <td>:</td>
                            <td>{props.nama}</td>
                        </tr>
                        <tr>
                            <td>Alamat</td>
                            <td>:</td>
                            <td>{props.alamat}</td>
                        </tr>
                        <tr>
                            <td>No Telepon</td>
                            <td>:</td>
                            <td>{props.hp}</td>
                        </tr>
                        <tr>
                            <td>Angkatan</td>
                            <td>:</td>
                            <td>{props.angkatan}</td>
                        </tr>
                        <tr>
                            <td>Status</td>
                            <td>:</td>
                            <td>{props.status}</td>
                        </tr>
                    </table>
                    <button className="btn btn-sm btn-warning"
                    onClick={() => props.hapusMhs(props.idMhs)}>
                        Hapus
                    </button>
                </div>
            </div>
        </div>
    )
}
export default Mhs;
```

Hasil