WORKSHOP WEB FRAMEWORK

GLOBAL API

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JURUSAN TEKNOLOGI INFORMASI

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Config.js

File yang berisi domain atau alamat dimana API bisa diakses

```javascript
// domain
export const domain = "http://localhost:3001";
```

Index.js

Berisi file konfigurasi api yang akan digunakan

```javascript
import getAPI from './getAPI';
import postAPI from './postAPI';
import deleteAPI from './deleteAPI';

const getDataPost = () => getAPI('/posts');
const postDataPost = (data) => postAPI('/posts', data);
const deleteDataPost = (data) => deleteAPI(data);


const API = {
    getDataPost,
    postDataPost,
    deleteDataPost
};


export default API;
```

getAPI.js

File yang berisi kode untuk mengakses seluruh data pada API.

```js
import { domain } from "./config";

const getAPI = async (path) => {
    const res = await fetch(`${domain}${path}`);
    return await res.json();
};

export default getAPI;
```

postAPI.js

File yang berisi kode pada aplikasi untuk bisa menambahkan data pada API

```
import { domain } from "./config";

const postAPI = (url, data) => {
    const promise = new Promise((resolve, reject) => {
        fetch(`${domain}${url}`, {
            method: "POST",
            headers: {
                "Content-Type": "application/json"
            },
            body: JSON.stringify(data)
        })
            .then(response => response.json())
            .then(data => resolve(data))
            .catch(error => reject(error));
    });

    return promise;
}

export default postAPI;
```

deleteAPI.js

File yang berisi kode untuk menghapus data pada API

```javascript
import { domain } from "./config";

const deleteAPI = (data) => {
    const promise = new Promise((resolve, reject) => {
        fetch(`${domain}/posts/${data}`, {
            method: "DELETE",
            headers: {
                "Content-Type": "application/json"
            }
        })
            .then(response => response.json())
            .then(data => resolve(data))
            .catch(error => reject(error));
    });

    return promise;
}

export default deleteAPI;
```

Lalu kita panggil file diatas pada halaman blogpost. Berikut kodenya:

```
class BlogPost extends React.Component {

    state = {
        posts: [],
        insertArticle: {
            id: '',
            title: '',
            body: '',
        },
    }

    // get all data from API
    fetchPost = () => {
        API.getDataPost()
            .then(res => {
                this.setState({
                    posts: res
                })
            });
            console.log(this.state.posts);
    }

    // delete data from API
    deletePost = (id) => {
        API.deleteDataPost(id)
            .then(res => {
                this.fetchPost();
            });
    }

    // handle input change
    handleChangeInsert = (event) => {
        let formArticle = { ...this.state.insertArticle };
        let timeStamp = new Date().getTime();
        formArticle['id'] = timeStamp;
        formArticle[event.target.name] = event.target.value;
        this.setState({ insertArticle: formArticle });
    }

    // insert data to API
    insertPost = (event) => {
        event.preventDefault();
        API.postDataPost(this.state.insertArticle)
            .then(res => {
                this.fetchPost();
            });
    }


    componentDidMount() {
        this.fetchPost();
    }

    render() {
        return (
            <div>
                <h1>Daftar Post</h1>
                {/* form add new post */}
                <div className="form-add mb-4">
                    <form>
                        <div className="form-group">
                            <label>Title</label>
                            <input type="text" className="form-control" name="title" id="title" onChange=
{this.handleChangeInsert} placeholder="Title" />
                        </div>
                        <div className="form-group mt-3">
                            <label>Content</label>
                            <textarea className="form-control mb-3" rows="3" placeholder="Content" name="body"
id="body" onChange={this.handleChangeInsert}></textarea>
                        </div>
                        <button type="submit" onClick={this.insertPost} className="btn btn-primary">Submit</button>
                    </form>
                </div>
                {
                    this.state.posts?.map(post => {
                        return <Post key={post.id} id={post.id} title={post.title} content={post.body} deletePost=
{this.deletePost} />
                    })
                }
            </div>
        );
    }
}

export default BlogPost;
```
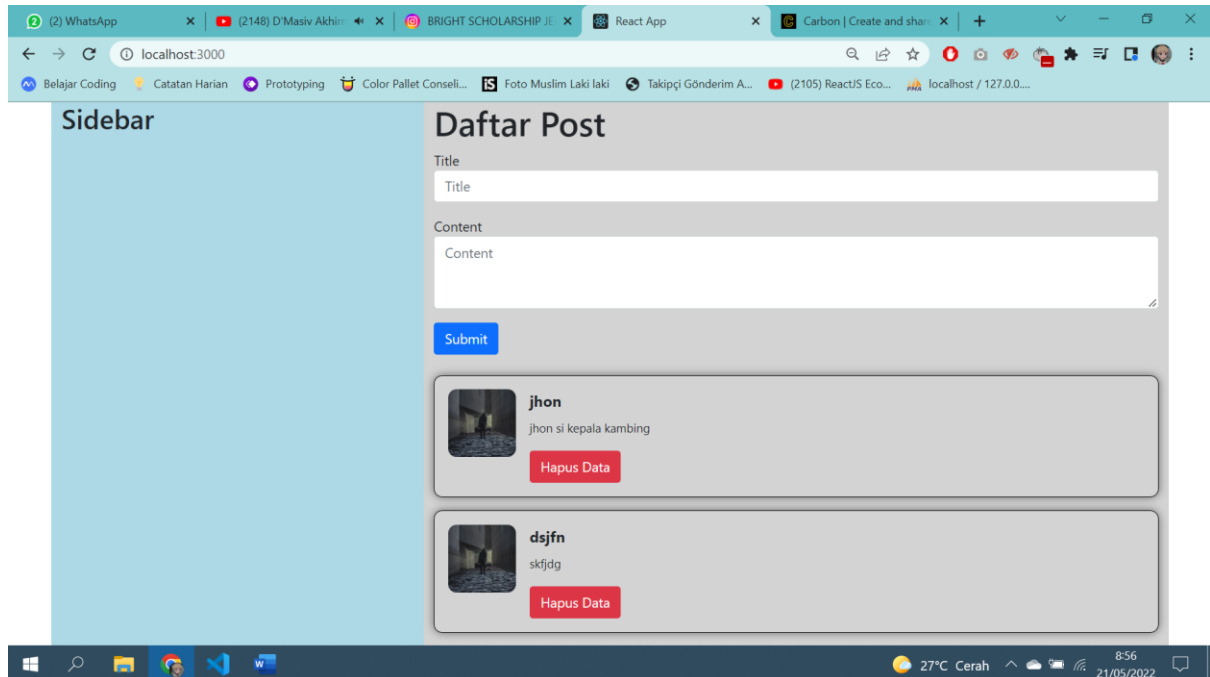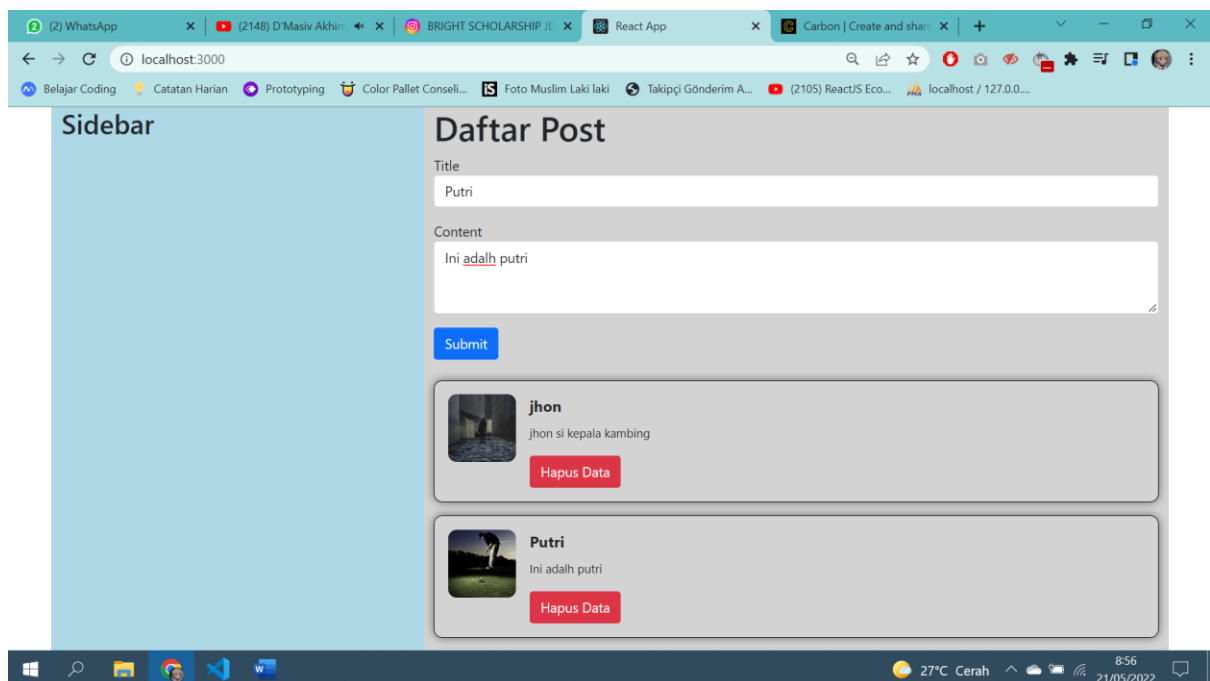
Output:

Get Data :

Post Data

Delete data