



Course Academy

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Solusi

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Hai, Nurico

Detail Portofolio

Galery Project



Deskripsi Project

LANGKAH-LANGKAH PEMBUATAN WEB MANAJEMEN BARANG

1. Persiapan Database dan Backend



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Deskripsi Project

LANGKAH-LANGKAH PEMBUATAN WEB MANAJEMEN BARANG

1. Persiapan Database dan Backend

Membuat database MySQL untuk menyimpan data barang

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
nama	varchar(100)	NO		NULL	
jumlah	int	NO		NULL	

3 rows in set (0.01 sec)

Membuat backend dengan menggunakan Flask

- Buat file app.py menggunakan flask
- Buat 4 endpoint (GET, POST, PUT, DELETE)
- Tambahkan fungsi untuk connect ke database

```
from flask import Flask, request, jsonify
from flask_cors import CORS
from model import db_barang

app = Flask(__name__)
CORS(app)

# koneksi ke database
app.config['SQLALCHEMY_DATABASE_URI'] = "sqlite:///barang.db"
app.config['SQLALCHEMY_TRACK_MODIFICATIONS'] = False
```



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```
23 def add_barang():
24     return jsonify({'error': str(e)}), 500
25
26 # Endpoint untuk memperbarui barang
27 @app.route('/barang/<int:id>', methods=['PUT'])
28 def update_barang(id):
29     try:
30         data = request.json
31         barang = Barang.query.get_or_404(id)
32         barang.nama = data['nama']
33         barang.jumlah = data['jumlah']
34         db.session.commit()
35         return jsonify(barang.to_dict())
36     except Exception as e:
37         return jsonify({'error': str(e)}), 500
38
39 # Endpoint untuk menghapus barang
40 @app.route('/barang/<int:id>', methods=['DELETE'])
41 def delete_barang(id):
42     try:
43         barang = Barang.query.get_or_404(id)
44         db.session.delete(barang)
45         db.session.commit()
46         return jsonify({'message': 'Barang berhasil dihapus'}), 204
47     except Exception as e:
48         return jsonify({'error': str(e)}), 500
49
50 # Jalankan aplikasi
51 if __name__ == '__main__':
52     app.run(debug=True)
```

2. Membuat Frontend dengan React.js

- Buat project baru dengan menggunakan perintah `npx create-react-app (nama_project)`
- Masuk ke direktori yang telah dibuat dengan perintah `cd (nama_project)`
- Siapkan struktur frontend (`App.js`, `BarangForm.js`, `BarangList.js`)

App.js



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App.js

```
1 // src/App.js
2 import React, { useState, useEffect } from 'react';
3 import BarangForm from './components/BarangForm';
4 import BarangList from './components/BarangList';
5 import { Container, Navbar, Card, Alert } from 'react-bootstrap';
6
7 const App = () => {
8     const [barang, setBarang] = useState({});
9     const [message, setMessage] = useState('');
10    const [variant, setVariant] = useState('success');
11
12    useEffect(() => {
13        fetchBarangs();
14    }, []);
15
16    const fetchBarangs = async () => {
17        const response = await fetch('http://127.0.0.1:5000/barang');
18        const data = await response.json();
19        setBarangs(data);
20    };
21
22    const addBarang = async (barang) => {
23        const response = await fetch('http://127.0.0.1:5000/barang', {
24            method: 'POST',
25            headers: {
26                'Content-Type': 'application/json',
27            },
28            body: JSON.stringify(barang),
29        });
30        const responseData = await response.json();
31        setBarangs([...barangs, responseData]);
32        setMessage('Barang berhasil ditambahkan!');
33        setVariant('success');
34    };
35
36    const deleteBarang = async (id) => {
37        const response = await fetch(`http://127.0.0.1:5000/barang/${id}`, {
38            method: 'DELETE',
39        });
40        const responseData = await response.json();
41        setBarangs(barangs.filter(barang => barang.id !== id));
42        setMessage('Barang berhasil dihapus!');
43        setVariant('danger');
44    };
45
46    return (
47        <Container>
48            <Navbar>
49                <h1>Full Stack Programming</h1>
50            </Navbar>
51            <div>
52                <BarangForm/>
53                <BarangList/>
54            </div>
55        </Container>
56    );
57
58 export default App;
```



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BarangForm.js

```
import React, { useState } from 'react';
import { Form, Button } from 'react-bootstrap';

const BarangForm = ({ onAdd }) => {
  const [nama, setNama] = useState('');
  const [jumlah, setJumlah] = useState('');

  const handleSubmit = (e) => {
    e.preventDefault();
    onAdd({ nama, jumlah });
    setNama('');
    setJumlah('');
  };

  return (
    <Form onSubmit={handleSubmit} className="mb-4">
      <Form.Group controlId="formNama">
        <Form.Label>Nama Barang</Form.Label>
        <Form.Control
          type="text"
          placeholder="Masukkan nama barang"
          value={nama}
          onChange={e => setNama(e.target.value)}
          required
        />
      </Form.Group>
      <Form.Group controlId="formJumlah">
        <Form.Label>Jumlah Barang</Form.Label>
        <Form.Control
          type="text"
          placeholder="Masukkan jumlah barang"
          value={jumlah}
        />
      </Form.Group>
      <Button type="submit">Tambah</Button>
    </Form>
  );
};

export default BarangForm;
```

BarangList.js

```
import React, { useState } from 'react';
import { Table, Button } from 'react-bootstrap';

const BarangList = ({ barang, onDelete }) => {
  return (
    <Table>
      <thead>
        <tr>
          <th>Nama</th>
          <th>Jumlah</th>
          <th>Aksi</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td>Barang 1</td>
          <td>1</td>
          <td>
            <Button
              type="button"
              onClick={() => onDelete('Barang 1')}
            />
          </td>
        </tr>
      </tbody>
    </Table>
  );
};

export default BarangList;
```

3. Uji Coba Dengan Postman

POST http://127.0.0.1:5000/barang

Params Authentication Headers (8) Body **Raw** Scripts Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
{
  "nama": "Barang A",
  "jumlah": 1
}
```

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4. Tampilan Akhir Website Manajemen Barang

Manajemen Barang

Selamat Datang di Aplikasi Manajemen Barang
Tambah, Edit, dan Hapus barang dengan mudah.

Barang berhasil diuploadkan!

Nama Barang

Masukkan nama barang

Jumlah Barang

Masukkan jumlah barang

Tampilkan Barang

ID	Nama	Jumlah	Aksi
1	Sepu	100	Hapus
2	Ember	50	Hapus

Course Terkait

Dasar - Dasar Python

Kategori

Web Programming

Web Programming

11:40 PM
11/11/2024