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1.app.py

```
from flask import Flask, render_template, request, redirect, url_for
from models import db
from controllers import MahasiswaController
from config import Config
```

```
# Inisialisasi Flask
```

```
app = Flask(__name__)
app.config.from_object(Config)
db.init_app(app)
```

```
# Buat tabel database jika belum ada
```

```
with app.app_context():
```

```
    db.create_all()
```

```
# Rute Halaman Utama (Daftar Mahasiswa)
```

```
@app.route('/')
```

```
def index():
```

```
    mahasiswa_list = MahasiswaController.get_all()
```

```
    return render_template('index.html', mahasiswa=mahasiswa_list)
```

```
# Rute Tambah Mahasiswa
```

```
@app.route('/add', methods=['GET', 'POST'])
```

```
def add_mahasiswa():
```

```
    if request.method == 'POST':
```

```
        nama = request.form['nama']
```

```
        nim = request.form['nim']
```

```
        jurusan = request.form['jurusan']
```

```
        tahun_masuk = request.form['tahun_masuk']
```

```
        MahasiswaController.add_mahasiswa(nama, nim, jurusan, tahun_masuk)
```

```
        return redirect(url_for('index'))
```

```
    return render_template('add.html')
```

```
# Rute Edit Mahasiswa
```

```
@app.route('/edit/<int:id>', methods=['GET', 'POST'])
```

```
def edit_mahasiswa(id):
```

```
    mahasiswa = MahasiswaController.get_by_id(id)
```

```
    if request.method == 'POST':
```

```
        nama = request.form['nama']
```

```
        nim = request.form['nim']
```

```
        jurusan = request.form['jurusan']
```

```
        tahun_masuk = request.form['tahun_masuk']
```

```
        MahasiswaController.update_mahasiswa(id, nama, nim, jurusan, tahun_masuk)
```

```
return redirect(url_for('index'))
```

```
return render_template('edit.html', mahasiswa=mahasiswa)
```

```
# Rute Hapus Mahasiswa
```

```
@app.route('/delete/<int:id>')
```

```
def delete_mahasiswa(id):
```

```
    MahasiswaController.delete_mahasiswa(id)
```

```
    return redirect(url_for('index'))
```

```
# Menjalankan Aplikasi
```

```
if __name__ == '__main__':
```

```
    app.run(debug=True)
```