

```
From flask import Flask, render_template, request, redirect, url_for, flash
```

```
Import sqlite3
```

```
App = Flask(__name__)
```

```
App.secret_key = "69420"
```

```
Def init_db():
```

```
    Db = sqlite3.connect('users.db')
```

```
    With open('schema.sql', 'r') as schema:
```

```
        Db.executescript(schema.read())
```

```
    Db.commit()
```

```
@app.cli.command('initdb')
```

```
Def initdb_cmd():
```

```
    Init_db()
```

```
    Print("Initialised database.")
```

```
Def get_db():
```

```
    Conn = sqlite3.connect('users.db')
```

```
    Conn.row_factory = sqlite3.Row
```

```
    Return conn
```

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

```
Def index():
```

```
    Return render_template('index.html', title='Home')
```

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

```
Def profile():
```

```
    Return render_template('profile.html', title='Profile')
```

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

```
Def about():
```

```
    Return render_template('about.html', title='About')
```

```
@app.route('/login', methods=('GET', 'POST'))
```

```
Def signin():
```

```
    Error = None
```

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

```
        Username = request.form['username']
```

```
        Password = request.form['password']
```

```
        Db = get_db()
```

```
        User = db.execute(
```

```
            'SELECT password FROM users WHERE username = ?', (username, )
```

```
        ).fetchone()
```

If user is None:

Error = 'Incorrect Username/Password.'

Elif password != user['password']:

Print(user)

Error = 'Incorrect Password.'

If error is None:

Return redirect(url_for('profile'))

Flash(error)

Db.close()

Return render_template('login.html', title='Sign In', error=error)

@app.route('/signup', methods=('POST', 'GET'))

Def signup():

If request.method == 'POST':

Username = request.form['username']

Password = request.form['password']

Email = request.form['email']

Name = request.form['name']

Db = get_db()

```
Curr = db.cursor()
```

```
Curr.execute(
```

```
    'INSERT INTO users (username, password, email, name) VALUES (?, ?, ?, ?);',
```

```
(username, password, email, name)
```

```
)
```

```
Db.commit()
```

```
Curr.close()
```

```
Db.close()
```

```
Return render_template('index.html', title="Home", succ="Registration Successful!")
```

```
Return render_template('signup.html', title='Sign Up')
```

```
If __name__ == '__app__':
```

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