Testing Flask with SQLite Database

This document provides instructions on how to test a Flask application that connects to a SQLite database named `test.db` and retrieves data from a table named `Student`.

Setup

1. Ensure `test.db` is located in the same directory as `app.py`.
2. Copy the provided Flask application code into `app.py`.

Code

```
from flask import Flask, render_template_string
import sqlite3

app = Flask(__name__)

DATABASE = 'test.db'

def get_db_connection():
    conn = sqlite3.connect(DATABASE)
    conn.row_factory = sqlite3.Row
    return conn

@app.route('/')
def index():
    conn = get_db_connection()
    cur = conn.cursor()
    cur.execute('SELECT * FROM Student;')
    students = cur.fetchall()
    conn.close()
    return render_template_string("""
        {% for student in students %}
            <p>{{ student['sId'] }} {{ student['sName'] }}</p>
        {% endfor %}
    """, students=students)

if __name__ == '__main__':
    app.run(debug=True)
```

Running the Test

1. Open a terminal or command prompt.
2. Navigate to the directory containing app.py.
3. Run the command:

```
python app.py
```

4. Open a web browser and go to **http://127.0.0.1:5000/**.

You should see the contents of the Student table displayed on the web page.