

# Setup SQLITE and Python Flask

## SQL lite Setup

Download for Mac:

<https://sqlitebrowser.org/blog/apple-silicon-macos-package-available/>



DB Browser for  
SQLite

## Download visual studio code

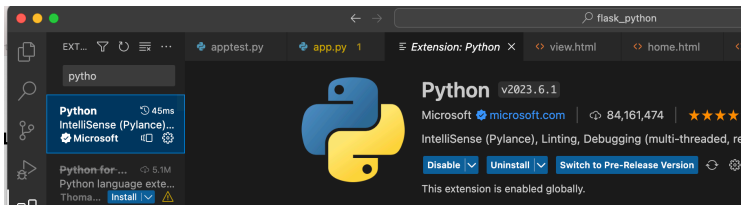
Download for Mac:

<https://code.visualstudio.com/download>

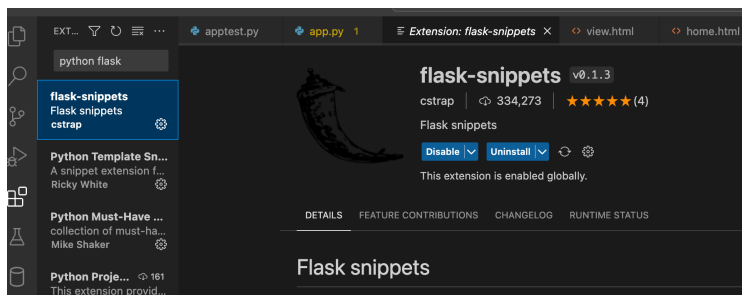


Visual Studio  
Code

## Install python extension in visual studio code



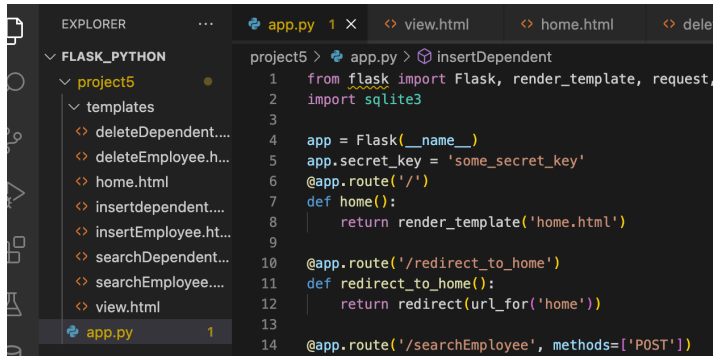
## Install python Flask extension in visual studio code



Link more information about Flask

<https://flask.palletsprojects.com/en/2.3.x/>

In the email I'll have zip folder attach call "flask\_python" in the folder be another folder call project5. In the project5 folder contains the "templates" folder that holds html document for the web browser and the python file "app.py" to to establish connection to sqlite sever and web base server. Open visual studio and open the "flask\_python" folder.

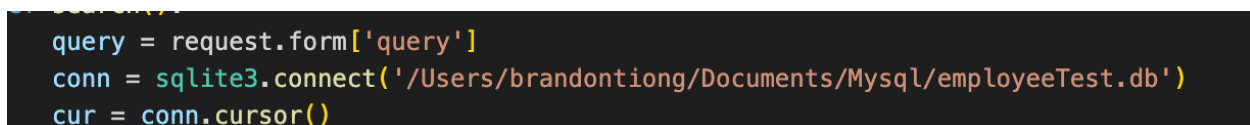


The screenshot shows the Visual Studio interface. On the left, the Explorer pane displays the project5 folder structure, including a templates folder and several HTML files. The main editor shows the app.py file with the following code:

```
1 from flask import Flask, render_template, request,
2 import sqlite3
3
4 app = Flask(__name__)
5 app.secret_key = 'some_secret_key'
6 @app.route('/')
7 def home():
8     return render_template('home.html')
9
10 @app.route('/redirect_to_home')
11 def redirect_to_home():
12     return redirect(url_for('home'))
13
14 @app.route('/searchEmployee', methods=['POST'])
```

In the email there is also attached sqlite file called "employeeTest.db" which has the relational schema setup for employee database and data for the employee and dependent table filled.

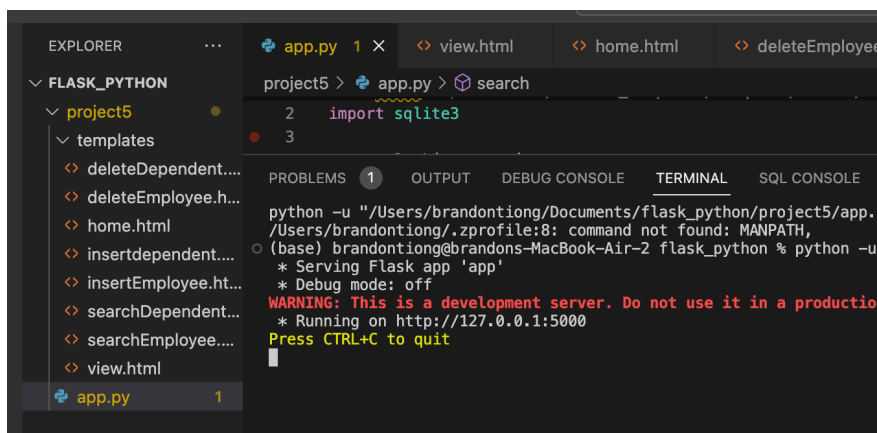
Before running python "app.py" you must change the code in the file to the corrected path where the "employeeTest.db" database is saved.



The screenshot shows a snippet of the corrected code in the app.py file:

```
query = request.form['query']
conn = sqlite3.connect('/Users/brandontiong/Documents/Mysql/employeeTest.db')
cur = conn.cursor()
```

Once you change the corrected path to your computer where database is saved you run python "app.py"



The screenshot shows the Visual Studio interface with the app.py file open. The terminal pane at the bottom displays the output of running the command:

```
python -u "/Users/brandontiong/Documents/flask_python/project5/app.py"
/Users/brandontiong/.zprofile:8: command not found: MANPATH,
(base) brandontiong@brandons-MacBook-Air-2 flask_python % python -u
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
```

Open the link <http://127.0.0.1:5000> in terminal and now you're connected to the web base page!

[←](#) [→](#) [↻](#) 127.0.0.1:5000

## Employee Management System

### View All Tables

View All

### Search Employees

Search By SSN or First Name:

### Search Dependent

Search By SSN or Name:

### Insert Employee

SSN:  DOB:  ☐ First Name:  Middle Initial:  Last Name:

### Insert Dependent

Dependent Name:  Relationship:  Employee SSN:

### Delete Employee

SSN:

### Delete Dependent

Dependent Name:  Employee SSN:

### Update Employee On SSN