

CMPT354 Mini Project by Ted (Minh Hoang) Le and Auston Ng

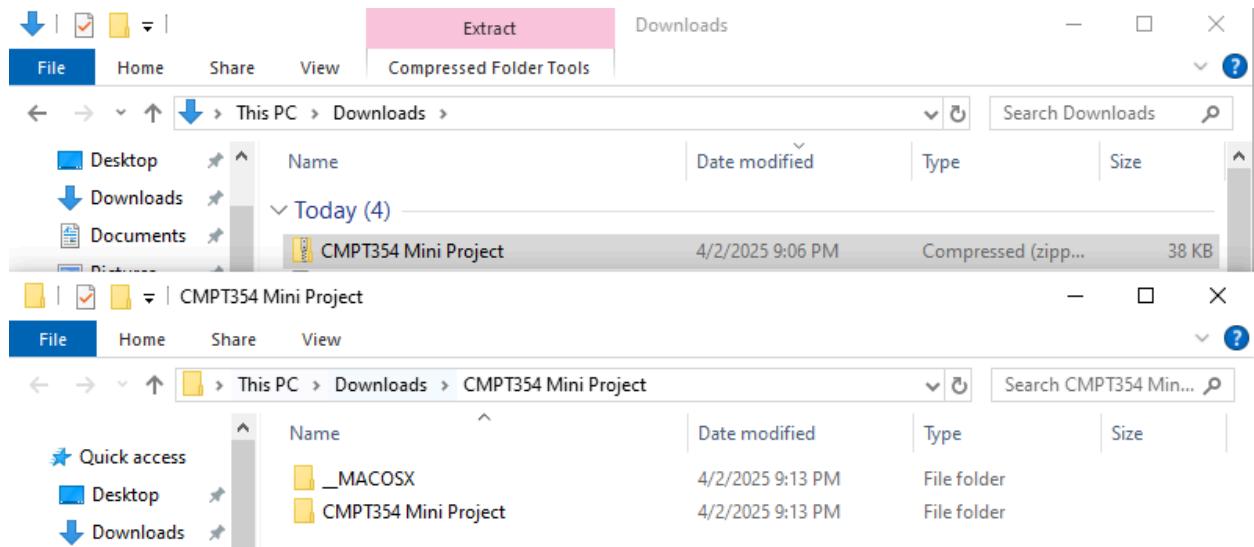
If you have further trouble setting up, contact us through discord or email:

-teddapoet/hml15@sfu.ca

-animal_jamal/acn8@sfu.ca

Application setup:

1. Download and unzip file



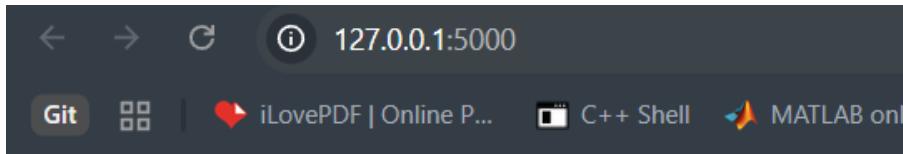
2. Open MiniProj.ipynb in Jupyter Notebook and run all cells if you want to recreate the library.db or check just to checkout the schema (library.db file is already included in the zip)
3. Open the folder/project in your IDE of choice (preferably VSCode or Pycharm) and **run app.py**
 - a. python -m pip install flask
 - b. ^ run that if you do not have flask installed

```
C:\Users\auto>cd Downloads>CMPT354 Mini Project>app.py
 1 from flask import Flask, request, render_template_string, redirect, url_for, flash
 2 import sqlite3
 3 from datetime import datetime, timedelta
 4 import os
 5
 6 app = Flask(__name__)
 7 app.secret_key = 'secretkey'
 8
 9
10 BASE_DIR = os.path.dirname(os.path.abspath(__file__))
11 DATABASE = os.path.join(BASE_DIR, 'library.db')
12
13
14 def get_db_connection():
15     conn = sqlite3.connect(DATABASE)
16     conn.row_factory = sqlite3.Row
17     return conn
18
```

4. Open the link generated in the terminal after running app.py

```
* Serving Flask app 'app'  
* Debug mode: on  
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.  
* Running on http://127.0.0.1:5000 ←  
Press CTRL+C to quit  
* Restarting with stat  
* Debugger is active!  
* Debugger PIN: 419-779-675  
127.0.0.1 - - [02/Apr/2025 21:19:41] "GET / HTTP/1.1" 200 -
```

5. Done



Library Database Application

- [Find an Item](#)
- [Borrow an Item](#)
- [Return a Borrowed Item](#)
- [Donate an Item](#)
- [Find an Event](#)
- [Register for an Event](#)
- [Volunteer for the Library](#)
- [Ask for Help from a Librarian](#)

Note: If you have library.db and app.py in the same working directory but clicking on [Find an Item](#) and see this:

- It's likely there is a pathing error caused by flask and the connection to the database was not made (and nothing will work)
- Make sure that app.py and library.db is in the same working directory (sometimes being in the same folder does not mean flask's working directory is in that folder)
- Contact us if you need help :). Thanks for the feedback friends!

sqlite3.OperationalError

```
sqlite3.OperationalError: no such table: libraryItem
```

Traceback (most recent call last)

```
File "C:\Users\asuso\AppData\Local\Programs\Python\Python313\lib\site-packages\flask\app.py", line 1536, in __call__
    return self.wsgi_app(environ, start_response)
           ~~~~~

File "C:\Users\asuso\AppData\Local\Programs\Python\Python313\lib\site-packages\flask\app.py", line 1514, in wsgi_app
    response = self.handle_exception(e)
               ~~~~~

File "C:\Users\asuso\AppData\Local\Programs\Python\Python313\lib\site-packages\flask\app.py", line 1511, in wsgi_app
    response = self.full_dispatch_request()
               ~~~~~

File "C:\Users\asuso\AppData\Local\Programs\Python\Python313\lib\site-packages\flask\app.py", line 919, in full_dispatch_request
    rv = self.handle_user_exception(e)
           ~~~~~

File "C:\Users\asuso\AppData\Local\Programs\Python\Python313\lib\site-packages\flask\app.py", line 917, in full_dispatch_request
    rv = self.dispatch_request()
           ~~~~~

File "C:\Users\asuso\AppData\Local\Programs\Python\Python313\lib\site-packages\flask\app.py", line 902, in dispatch_request
    return self.ensure_sync(self.view_functions[rule.endpoint])(**view_args) # type: ignore[no-any-return]
           ~~~~~

File "C:\Users\asuso\Downloads\CMPT354 Mini Project\CMPT354 Mini Project\app.py", line 64, in find_item
    conn = execute_query(query, params)
           ~~~~~

sole3 OperationalError: no such table: libraryItem
```

The debugger caught an exception in your WSGI application. You can now look at the traceback which led to the error.

To switch between the interactive traceback and the plain text one you can click on the "Traceback" header. From the text traceback you can also create a paste of it. For code execution mouse-over the frame you want to debug and click on the console icon on the right side. You can receive infinite help. Refer to the developer options and the browser console with browserutils for more information.

- `dump()` shows all variables in the frame
 - `dump(obj)` dumps all that's known about the object

- `dump(obj)` dumps all that's known about the object

- If you've followed the steps and there is no pathing error the [Find an Item](#) page should look like this:

Find an Item

Enter item title	<input type="button" value="Search"/>
------------------	---------------------------------------

Results:

- 1 - Beloved (print book) - Status: available - Authors: Toni Morrison
 - 2 - One Hundred Years of Solitude (print book) - Status: available - Authors: Gabriel García Márquez
 - 3 - American Gods (print book) - Status: available - Authors: Neil Gaiman
 - 4 - Parable of the Sower (print book) - Status: available - Authors: Octavia Butler
 - 5 - Norwegian Wood (print book) - Status: available - Authors: Haruki Murakami
 - 6 - Sapiens: A Brief History of Humankind (online book) - Status: available - Authors: Yuval Noah Harari
 - 7 - The New Jim Crow (online book) - Status: available - Authors: Michelle Alexander
 - 8 - Cosmos (online book) - Status: available - Authors: Carl Sagan
 - 9 - Symphony No. 9 (cd) - Status: available - Authors: Ludwig van Beethoven
 - 10 - Lemonade (cd) - Status: available - Authors: Beyoncé Knowles-Carter
 - 11 - To Pimp a Butterfly (cd) - Status: available - Authors: Kendrick Lamar
 - 12 - Kind of Blue (cd) - Status: available - Authors: Miles Davis
 - 13 - Abbey Road (record) - Status: available - No authors listed.
 - 14 - Parasite (record) - Status: available - Authors: Bong Joon-ho
 - 15 - 13th (record) - Status: available - Authors: Ava DuVernay
 - 16 - Roma (record) - Status: available - Authors: Alfonso Cuarón
 - 17 - National Geographic: Ocean Life (magazine) - Status: unavailable - No authors listed.
 - 18 - Scientific American: AI Revolution (magazine) - Status: unavailable - No authors listed.
 - 19 - The Ministry of the Future (online book) - Status: unavailable - Authors: Octavia Butler
 - 20 - Renaissance (cd) - Status: available - Authors: Beyoncé Knowles-Carter

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