

# Internet Technologies: Program 4:

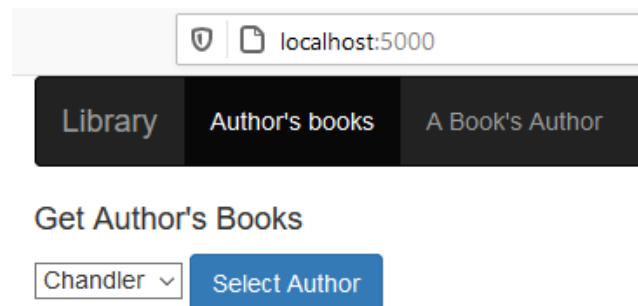
Here we will tackle using Flask-Sqlalchemy and a database with two tables. You should start with this video.

	<p>← click the blue image to open a YouTube video</p>
<p><i>Program 4 overview</i></p>	

There is a link on the course website that has a postgresql backup of the database. As before, you will need to restore it : ⇒ [library.tar](#)

It makes it easier and faster to grade if you name your files *app.py* and *models.py*. You will need a virtual environment where you pip install flask, psychpg2, and flask-sqlalchemy.

Clicking the *Author's books* nav item should display initially. On that page, entering an author's last name should (left image) should display next the author's info and books (right image). Your page does not need to look exactly like mine, but it should display the same info.



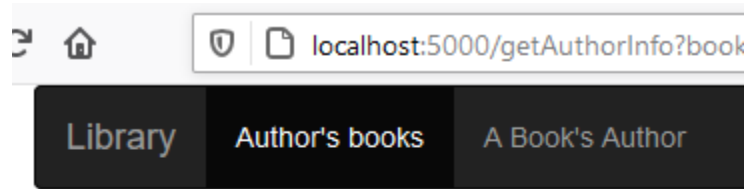
Which offers these results.

<a href="#">Library</a> <a href="#">Author's books</a> <a href="#">A Book's Author</a>	
<h2>Raymond Chandler</h2> <p>Born: 1888</p> <p>Selected Books</p>	
Title	Year Published
The Big Sleep	1939
Farewall My Lovely	1940
The High Window	1942
The Lady in the Lake	1943
The Long Goodbye	1953

And after clicking the *A book's Author* navbar link, which must contain all the books, and then clicking the Absalom, Absalom! link, for example, your code should then show that book's info (below).

<a href="#">Library</a> <a href="#">Author's books</a> <a href="#">A Book's Author</a>	
<h3>Get a Book's Author</h3> <ul style="list-style-type: none"> <li><a href="#">The Tale of Peter Rabbit</a></li> <li><a href="#">The Tale of Squirrel Nutkin</a></li> <li><a href="#">The Tale of Benjamin Bunny</a></li> <li><a href="#">The Tale of Jemima Puddle-Duck</a></li> <li><a href="#">The Tale of the Flopsy Bunnies</a></li> <li><a href="#">The Tale of Mrs. Tittlemouse</a></li> <li><a href="#">The Tale of Mr. Tod</a></li> <li><a href="#">The Sound and the Fury</a></li> <li><a href="#">As I Lay Dying</a></li> <li><a href="#">Light in August</a></li> <li><a href="#">Absalom, Absalom!</a></li> <li><a href="#">The Big Sleep</a></li> <li><a href="#">Farewall My Lovely</a></li> <li><a href="#">The High Window</a></li> <li><a href="#">The Lady in the Lake</a></li> <li><a href="#">The Origins of Totalitarianism</a></li> <li><a href="#">The Long Goodbye</a></li> <li><a href="#">The Human Condition</a></li> <li><a href="#">On Revolution</a></li> <li><a href="#">Royal Flash</a></li> <li><a href="#">Flashman</a></li> <li><a href="#">Flash for Freedom</a></li> <li><a href="#">Flashman at the Charge</a></li> </ul>	

We get



## Book Selected

Title: Absalom, Absalom!, 1936

Author: William Faulkner

Born: 1897

Look for examples to go by in the lecture notes for *Relationships*. Please start early.

Do not modify the database. I will grade your program using my copy of the db.

Use Jinja2 and bootstrap for navigation and styling.

You need a model for both tables and make use of sqlalchemy rather than use sql. You must use the db.relationship() function for both models with your queries

If you have questions, you know how to find me.

## How To Submit Your Program

Before sending your code, ***delete the virtual environment folder from the project***. Next, zip the folder and attach it to an email, as you've done in the past.

Thanks...