

Group 7

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Pseudo-code

Initialize Flask app and set a secret key.

Define a catalog of books with title, author, genre, price, and cover image.

Define routes for:

- Home page ("/") to display the book catalog.

- Search ("/search") to search for books based on title or author.

- Add to Cart ("/add_to_cart/<int:book_index>") to add a book to the shopping cart.

- View Cart ("/cart") to display the items in the shopping cart.

- Clear Cart ("/clear_cart") to clear the entire shopping cart.

Implement functions for each route:

- `home()`:

 - Render the 'index.html' template with the book catalog.

- `search()`:

 - Retrieve the search query from the form.

 - Filter books based on the query.

 - Render the 'search_results.html' template with search results.

- `add_to_cart(book_index)`:

 - Retrieve the existing cart from the session or initialize an empty list.

 - Append the book index to the cart.

 - Update the session with the modified cart.

 - Redirect to the home page.

- `view_cart()`:

 - Retrieve cart indices from the session.

 - Create a list of unique books in the cart with quantities.

 - Calculate the total price of items in the cart.

 - Render the 'cart.html' template with cart details.

- `clear_cart()`:

 - Remove the 'cart' key from the session.

 - Redirect to the home page.

Run the Flask app.

Flowchart

