Database

Book

ID	Primary Key
Title	VARCHAR(255)
Book Type	VARCHAR(255)
Genre	VARCHAR(255)
Stock level	INT
Selling Price £	INT
Buying Price £	INT
Author ID	INT Reference authors(id)

Author

ID	Primary Key
Name	VARCHAR(255)

SQL queries

Search filters

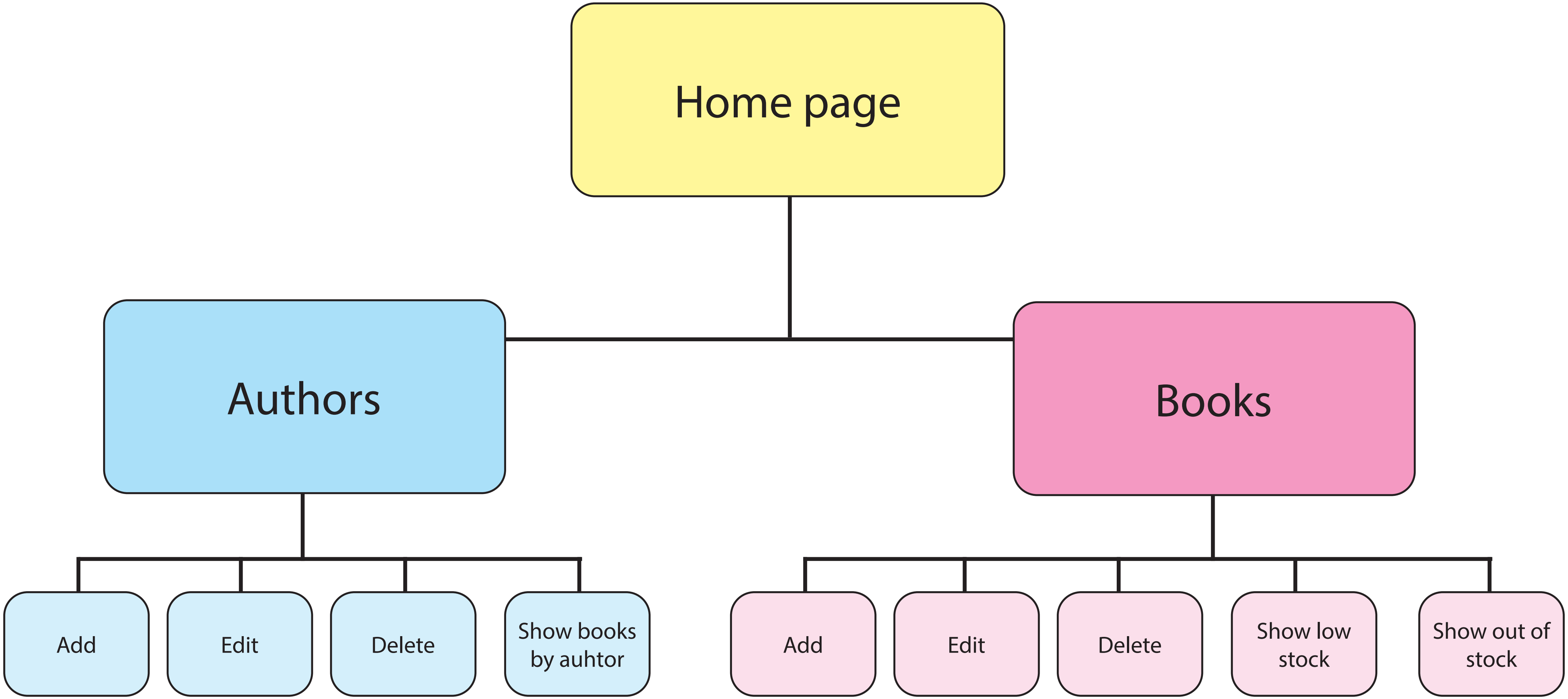
find by author- id

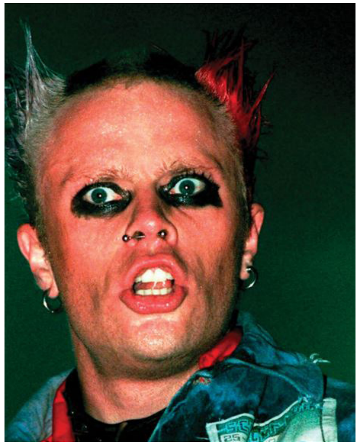
find low stock

find out of stock

find all books by a specific author

Site map


Home page
Authors
Books
Add
Edit
Delete
Show books by auhtor
Add
Edit
Delete
Show low stock
Show out of stock



Name

Keith

Behaviours

Loves singing and performing
Good at meeting people and creating interest in his store

Demographics

49 Years old
Male
Single
Owns a bookstore
Lives in London

Needs and goals

To sell books to make money to fund his band

Eventually hopes to sell the store

Name

Dylan

Behaviours

Loves to smoke and drink
Not good interacting with people

Demographics

48 Years old
Male
Single
Works in a bookstore
Lives in London

Needs and goals

Make a sale in the shop as quick as possible so he interacts less with customers

Wants to spend more time smoking and drinking

User needs

As a...	**I want to...**	**So that...**
Store Manager	See profit of each book title	Order more of that title
Shop assistant	Find a book by title/author/genre	I can find it for a customer
Shop assistant*	Add a publisher	So I can assign an author
Store Manager*	See profit by genre	Order more of that genre
Store Manager*	See profit by book author	Order more by that author

* To be implemented in a future version

User needs

As a...	**I want to...**	**So that...**
Shop assistant	Add an author	So I can assign books
Shop assistant	Add books by an author	To assign the book
Shop assistant	Check stock levels	To order more books
Shop assistant*	Add reviews to a book	A customer can see it’s review

* To be implemented in a future version

User journey

CODECLAN

Your name Customer asks for a book by title

Date

User action

1 Start

Customer asks for a book by title

System response

Click search view > search by title

User action

2

Customers states the book title

System response

Enter title in search view > Press search Send to database

User action

3

Confirm book found matches book requested

System response

Offer to sell the book, with “Sell book? button.

User action

4

Customer agrees to buy book

System response

Press send “Sell book button”

User action

5

Hand book to customer

System response

Reduce stock quantiy
Increase books sold
return to main page

User action

6

System response

User action

7

System response

User action

8 End

System response

User journey

CODECLAN

Your name Check profit by a particular author Date

User action

1 Start
Store manager wants to check profit

System response

Click profit view

User action

2
SM clicks how he wants to check profit

System response

Asks by which method

User action

3
SM checks profit by an author

System response

Sends request to database

User action

4
SM presses the toggle sort button

System response

SM sorts the data ascending/ descending

User action

5
SM clicks the home button

System response

change the view to home

User action

6

System response

User action

7

System response

User action

8 End

System response

User journey

CODECLAN

Your name Add an author

Date

User action

1 Start
Shop Assistant wants to add an author

System response

Click add button

User action

2
SA click on "Add author"

System response

Display form with Author info required

User action

3
SA adds information

System response

Sends info to database

User action

4
SA views the added Author and presses home view

System response

change the view to home

User action

5

System response

User action

6

System response

User action

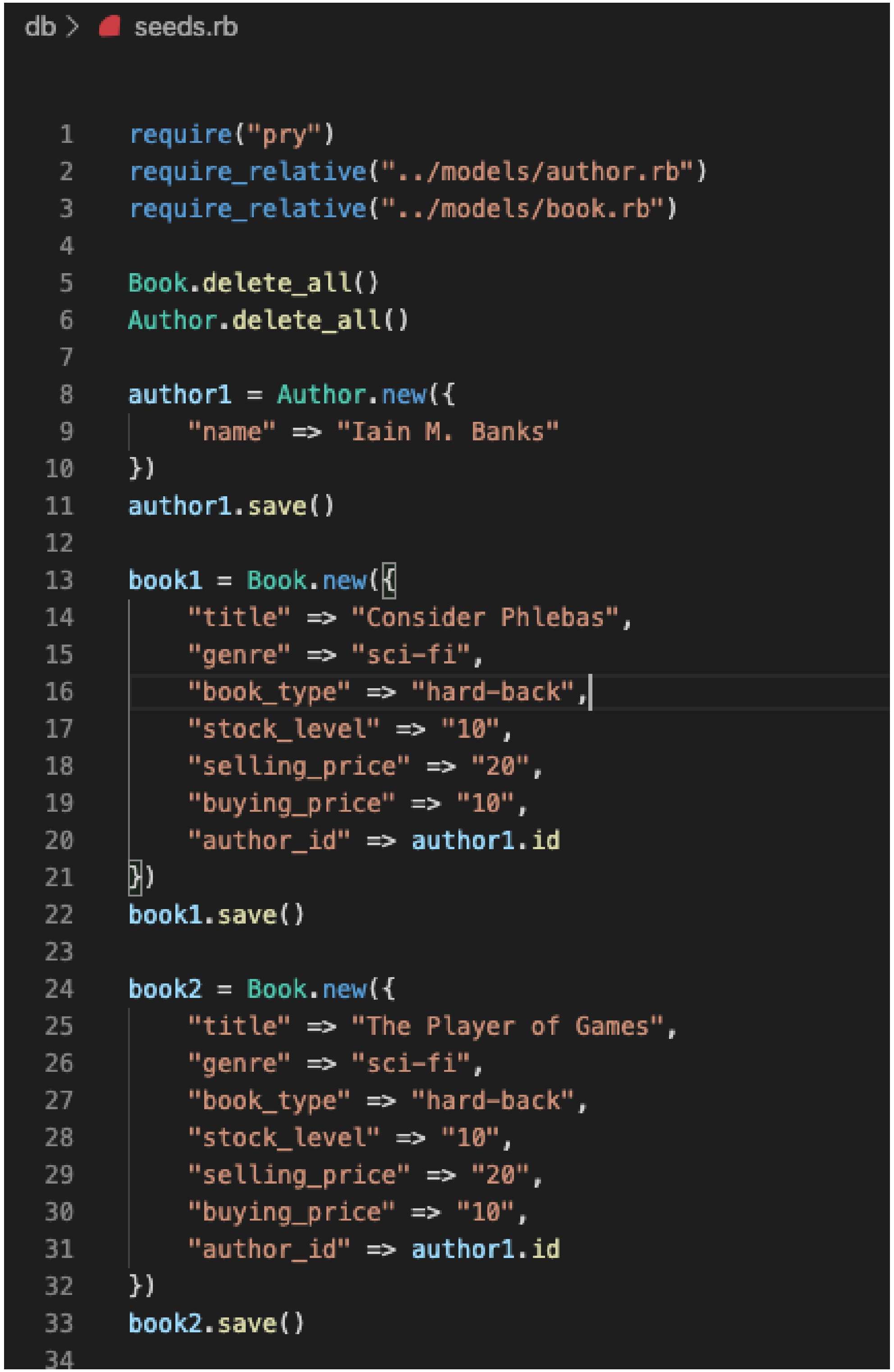
7

System response

User action

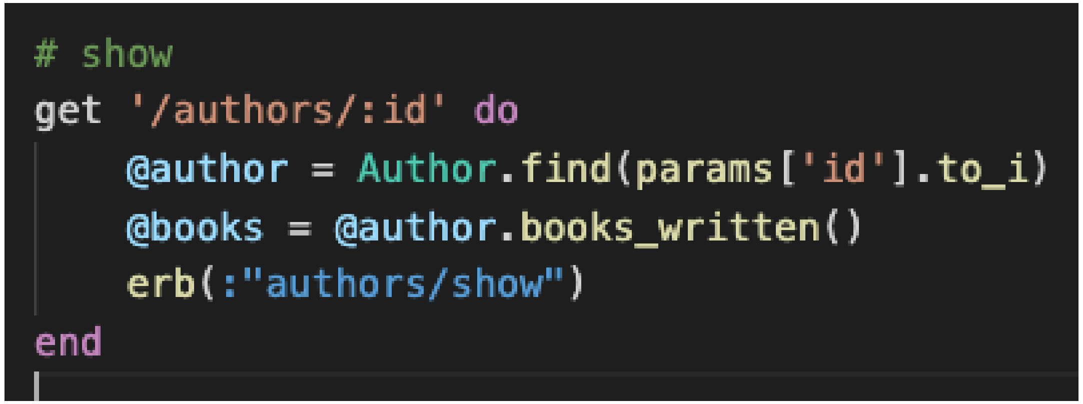
8 End

System response



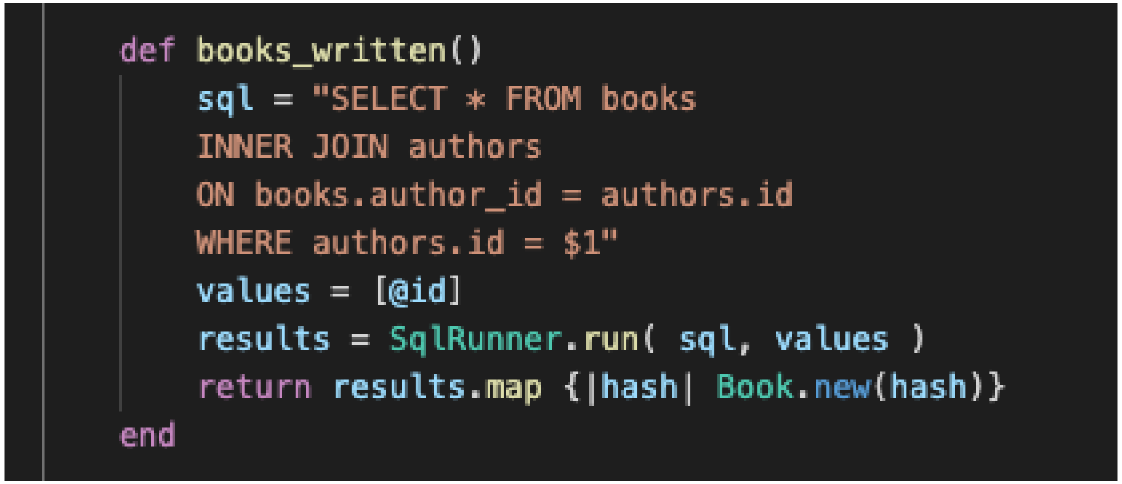
```ruby
require("pry")
require_relative("../models/author.rb")
require_relative("../models/book.rb")

Book.delete_all()
Author.delete_all()

author1 = Author.new({
    "name" => "Iain M. Banks"
})
author1.save()

book1 = Book.new({
    "title" => "Consider Phlebas",
    "genre" => "sci-fi",
    "book_type" => "hard-back",
    "stock_level" => "10",
    "selling_price" => "20",
    "buying_price" => "10",
    "author_id" => author1.id
})
book1.save()

book2 = Book.new({
    "title" => "The Player of Games",
    "genre" => "sci-fi",
    "book_type" => "hard-back",
    "stock_level" => "10",
    "selling_price" => "20",
    "buying_price" => "10",
    "author_id" => author1.id
})
book2.save()

```

<= Masses of data to be seeded



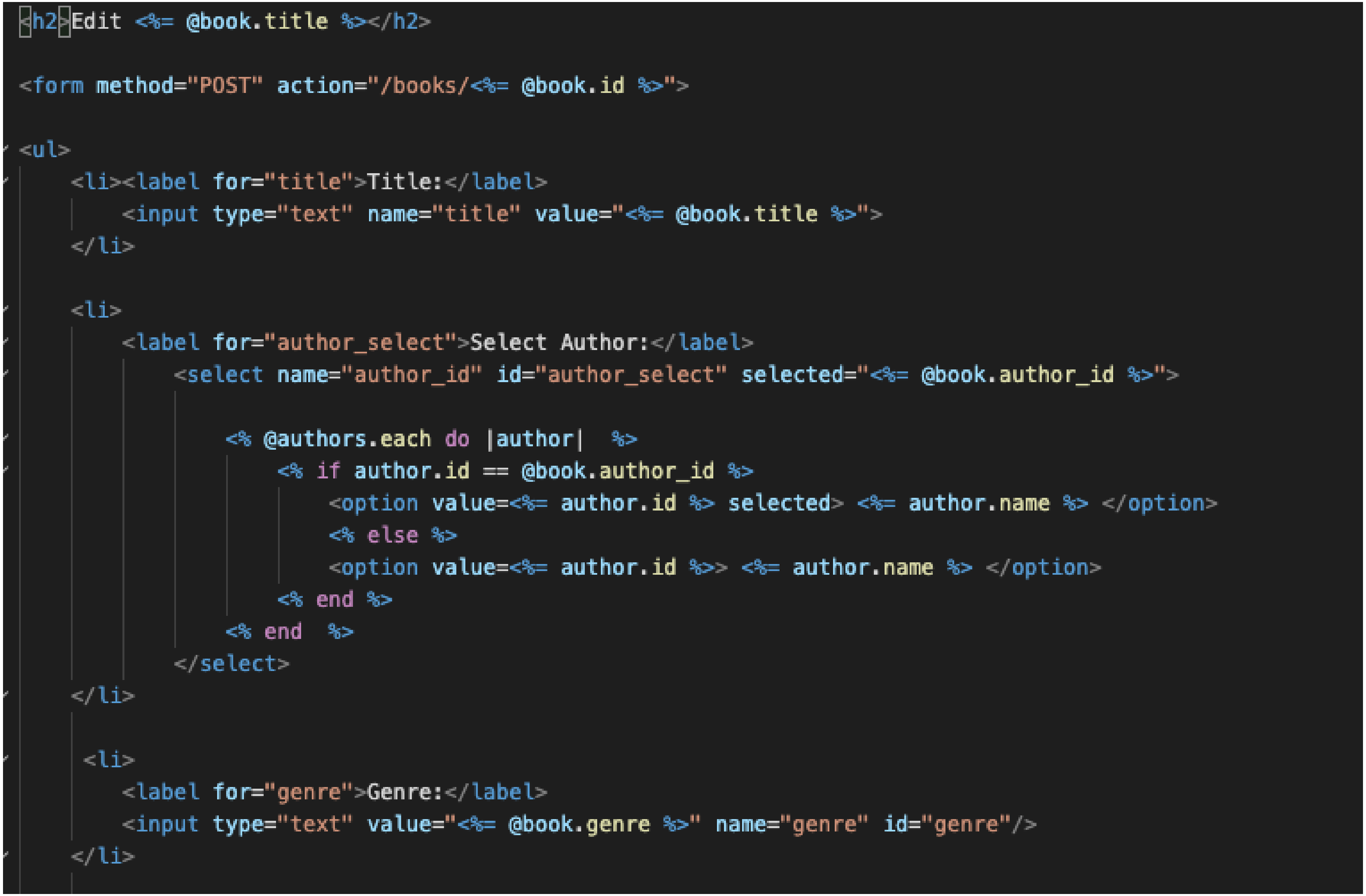
```ruby
# show
get '/authors/:id' do
    @author = Author.find(params['id'].to_i)
    @books = @author.books_written()
    erb(:"authors/show")
end
```

Find books written by a specific author

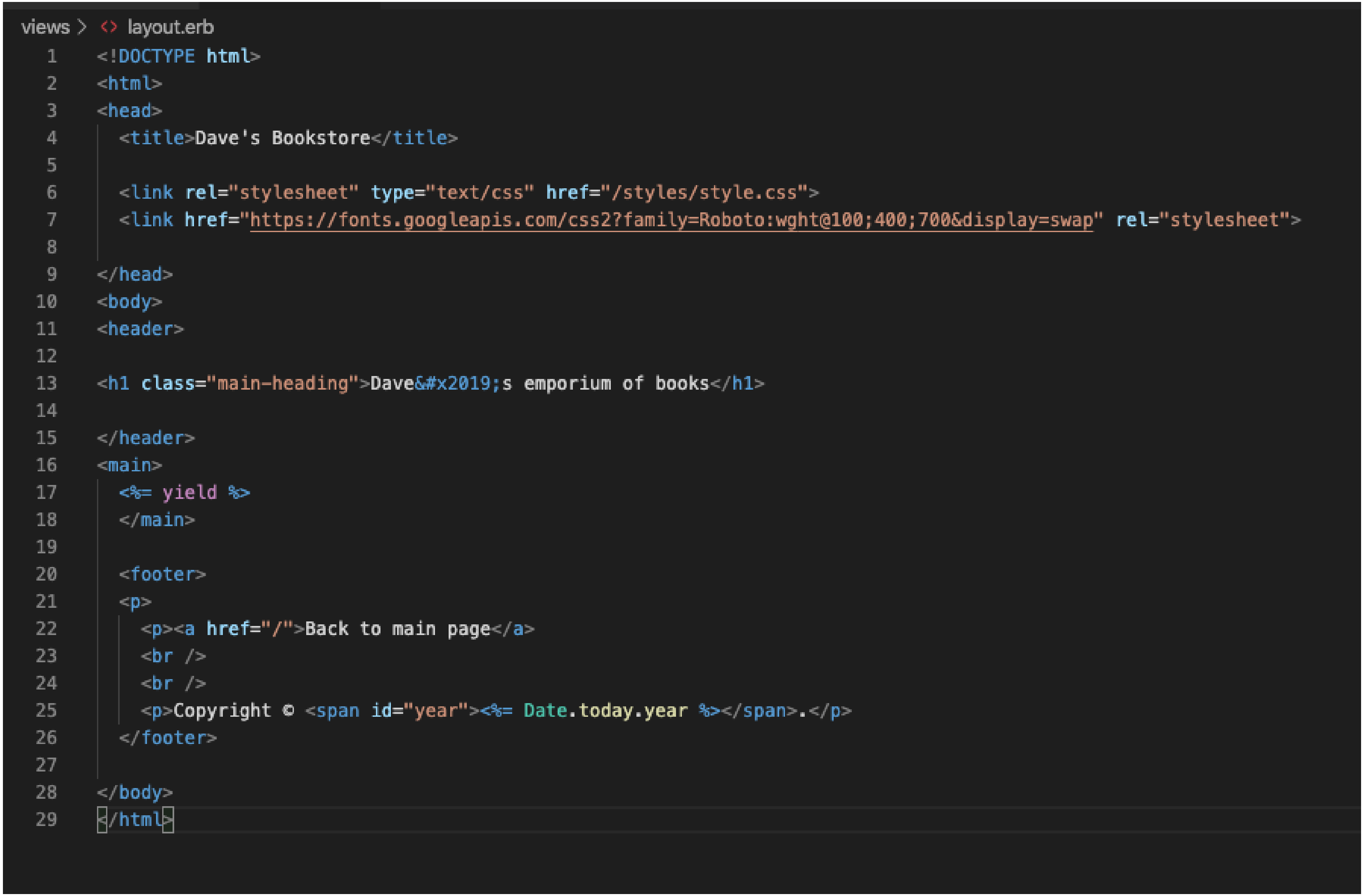


```ruby
def books_written()
    sql = "SELECT * FROM books
    INNER JOIN authors
    ON books.author_id = authors.id
    WHERE authors.id = $1"
    values = [@id]
    results = SqlRunner.run( sql, values )
    return results.map {|hash| Book.new(hash)}
end
```

Getting the author name to be selected when editing a book



```
<h2>Edit <%= @book.title %></h2>

<form method="POST" action="/books/<%= @book.id %>">

<ul>
    <li><label for="title">Title:</label>
        <input type="text" name="title" value="<%= @book.title %>">
    </li>

    <li>
        <label for="author_select">Select Author:</label>
            <select name="author_id" id="author_select" selected="<%= @book.author_id %>">

                <% @authors.each do |author|  %>
                    <% if author.id == @book.author_id %>
                        <option value=<%= author.id %> selected> <%= author.name %> </option>
                        <% else %>
                        <option value=<%= author.id %>> <%= author.name %> </option>
                    <% end %>
                <% end  %>
            </select>
    </li>

     <li>
        <label for="genre">Genre:</label>
        <input type="text" value="<%= @book.genre %>" name="genre" id="genre"/>
    </li>
```



```
<!DOCTYPE html>
<html>
<head>
  <title>Dave's Bookstore</title>

  <link rel="stylesheet" type="text/css" href="/styles/style.css">
  <link href="https://fonts.googleapis.com/css2?family=Roboto:wght@100;400;700&display=swap" rel="stylesheet">

</head>
<body>
<header>

<h1 class="main-heading">Dave&#x2019;s emporium of books</h1>

</header>
<main>
  <%= yield %>
  </main>

  <footer>
  <p>
    <p><a href="/">Back to main page</a>
    <br />
    <br />
    <p>Copyright © <span id="year"><%= Date.today.year %></span>.</p>
  </footer>

</body>
</html>
```