

# Database Evidence

## Working website:

<https://php.mmc.school.nz/13/amayagreene/Database/91902%20-%20Assignment/index.php>

## Trello board:

<https://trello.com/invite/b/68a28e4b852a98b3ab1d85bd/ATT11e6a5900eaea155e9c6105f4f702d12602B926EB/book-database>

The project on Github: <https://github.com/amaya26/books>

## Planning

Add information about the purpose of your website/ database, who the target audience will be and some of their requirements.

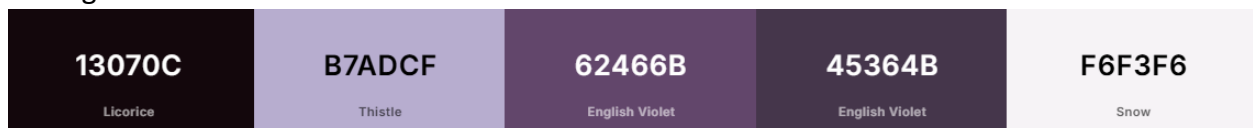
The purpose of my database is to store information about books, displayed in a website where users can easily search by author or title to find the book that they want. My target audience is young adults who enjoy reading. The requirements for this group are that the website content suits their interests (young adult books), and that the aesthetics of the website are appealing to that age group.

## Colours

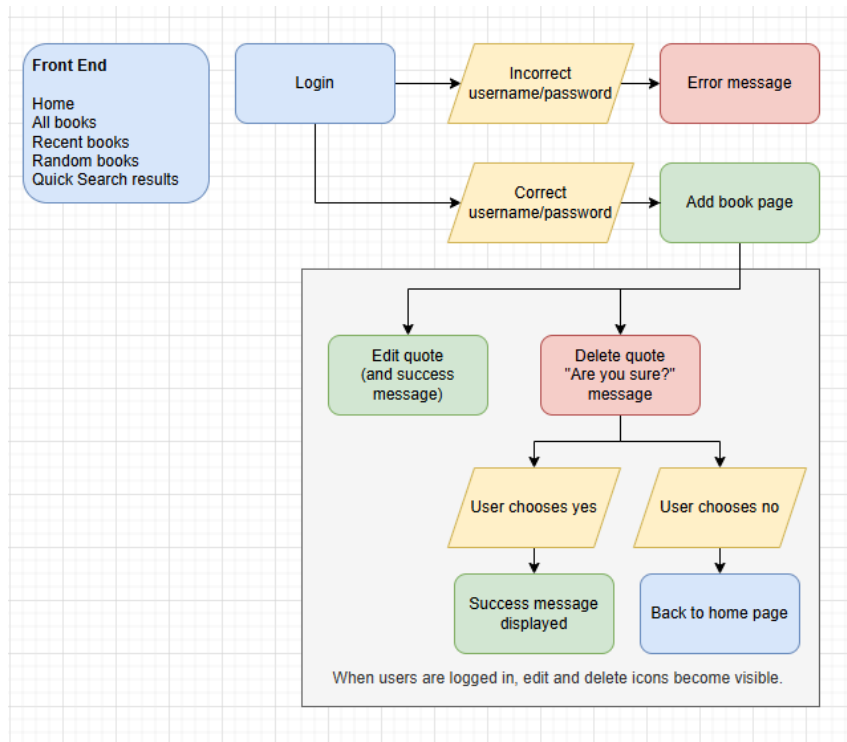
After [user feedback](#), I changed my colours. This was the initial colour palette.



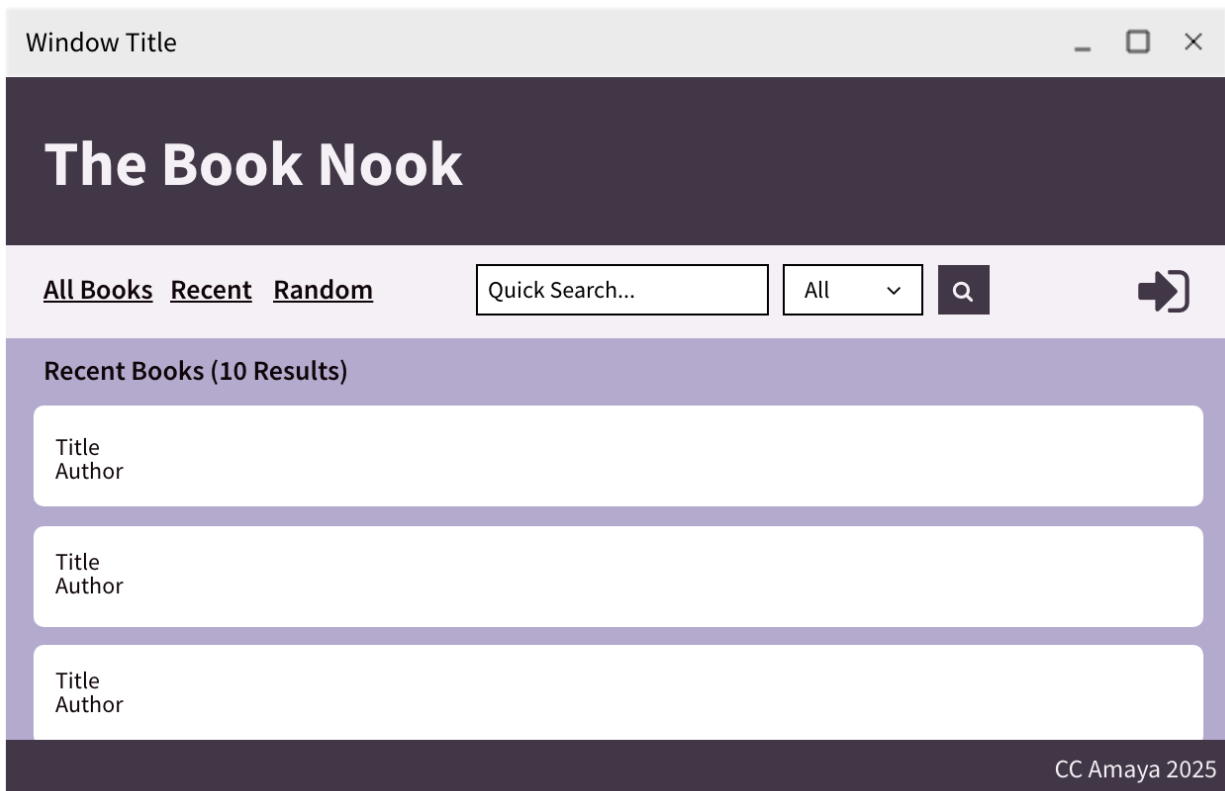
I changed it to this.



## Website functionality plan



## Wireframe



Name: Amaya Greene

Window Title

The Book Nook

[All Books](#) [Recent](#) [Random](#)

Quick Search...

All

Q

➔

Login

Username

Password

Login

CC Amaya 2025

Window Title

The Book Nook

[All Books](#) [Recent](#) [Random](#)

Quick Search...

All

Q

➔

Add a Book

Title (required)

Author Name (First Middle Last)

Submit Book

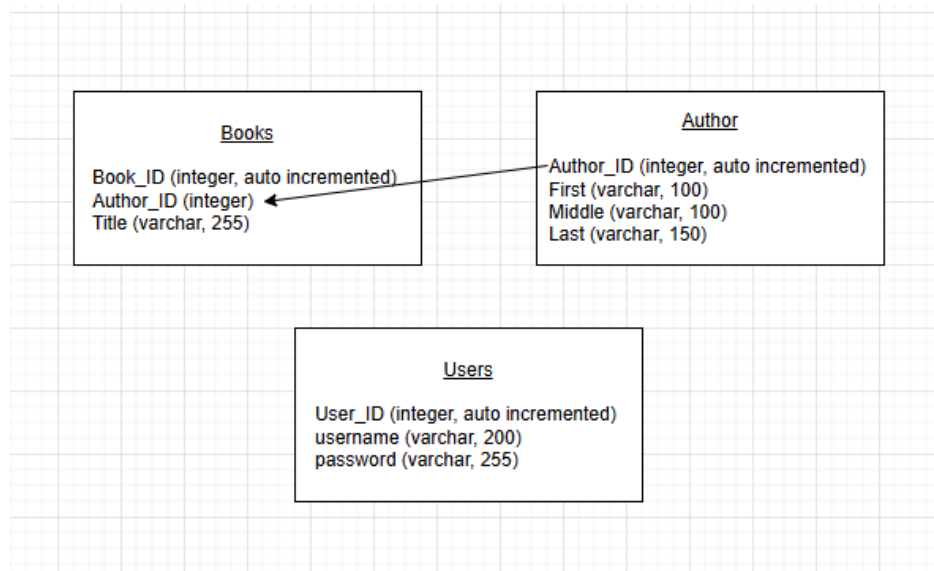
CC Amaya 2025

## Database Design

Add design information about the tables that are used, the data type and the relationship between them.

Name: Amaya Greene

## Relationship between tables



Name	Data Type
Author_ID	int
First	varchar
Middle	varchar
Last	varchar

Name	Data Type
Book_ID	int
Author_ID	int
Title	varchar

Name	Data Type
User_ID	int
username	varchar
password	varchar

## Development:

### Database setup

Place screenshots of all your tables used in your database

Server: localhost » Database: amayagreene\_books » Table: Author

Browse Structure SQL Search Insert Export

☒ Show all | Number of rows: All | Filter rows: Search this table

Extra options

		Author_ID	First	Middle	Last
<input type="checkbox"/>	Edit Copy Delete	1	Casey		McQuiston
<input type="checkbox"/>	Edit Copy Delete	2	Alice		Oseman
<input type="checkbox"/>	Edit Copy Delete	3	Audrey		Coulthurst
<input type="checkbox"/>	Edit Copy Delete	4	Kalynn		Bayron
<input type="checkbox"/>	Edit Copy Delete	5	Brigid		Kemmerer
<input type="checkbox"/>	Edit Copy Delete	6	Maggie		Tokuda-Hall
<input type="checkbox"/>	Edit Copy Delete	7	Adrienne		Tooley
<input type="checkbox"/>	Edit Copy Delete	8	Nina		Varela
<input type="checkbox"/>	Edit Copy Delete	9	Rachael		Lippincott
<input type="checkbox"/>	Edit Copy Delete	10	A	R	Capetta
<input type="checkbox"/>	Edit Copy Delete	11	O	R	Sorrel
<input type="checkbox"/>	Edit Copy Delete	12	Samantha		Shannon
<input type="checkbox"/>	Edit Copy Delete	13	Sarah		Underwood
<input type="checkbox"/>	Edit Copy Delete	14	Leigh		Bardugo
<input type="checkbox"/>	Edit Copy Delete	15	Heather		Walter
<input type="checkbox"/>	Edit Copy Delete	16	Taylor	Jenkins	Reid
<input type="checkbox"/>	Edit Copy Delete	17	Tess		Sharpe
<input type="checkbox"/>	Edit Copy Delete	18	Neal		Shusterman
<input type="checkbox"/>	Edit Copy Delete	19	Louisa	May	Alcott
<input type="checkbox"/>	Edit Copy Delete	20	John		Green

Check all | With selected: Edit Copy Delete

Server: localhost » Database: amayagreene\_books » Table: User

Browse Structure SQL Search Insert Export

☒ Show all | Number of rows: All | Filter rows: Search this table

Extra options

		User_ID	username	password
<input type="checkbox"/>	Edit Copy Delete	1	admin	\$2y\$08\$7.u9A7Nlvd2bOiQXTAyWv.JMey3FPS9TLI5ISXxSZuX...

Check all | With selected: Edit Copy Delete Export

Name: Amaya Greene

Server: localhost » Database: amayagreene_books » Table: Books			
Browse	Structure	SQL	Search
Insert	Export	Import	
	Book_ID	Author_ID	Title
<input type="checkbox"/> Edit Copy Delete	1	1	One Last Stop
<input type="checkbox"/> Edit Copy Delete	2	1	Red White and Royal Blue
<input type="checkbox"/> Edit Copy Delete	3	1	The Pairing
<input type="checkbox"/> Edit Copy Delete	4	2	Heartstopper
<input type="checkbox"/> Edit Copy Delete	5	2	Loveless
<input type="checkbox"/> Edit Copy Delete	6	2	Radio Silence
<input type="checkbox"/> Edit Copy Delete	7	2	Solitaire
<input type="checkbox"/> Edit Copy Delete	8	2	I Was Born for This
<input type="checkbox"/> Edit Copy Delete	9	2	This Winter
<input type="checkbox"/> Edit Copy Delete	10	2	Nick and Charlie
<input type="checkbox"/> Edit Copy Delete	11	3	Of Fire and Stars
<input type="checkbox"/> Edit Copy Delete	12	3	Of Ice and Shadows
<input type="checkbox"/> Edit Copy Delete	13	3	Starworld
<input type="checkbox"/> Edit Copy Delete	14	4	Cinderella is Dead
<input type="checkbox"/> Edit Copy Delete	15	4	This Poison Heart
<input type="checkbox"/> Edit Copy Delete	16	4	This Wicked Fate
<input type="checkbox"/> Edit Copy Delete	17	4	Sleep Like Death
<input type="checkbox"/> Edit Copy Delete	18	4	You're Not Supposed to Die Tonight
<input type="checkbox"/> Edit Copy Delete	19	5	Defy the Night
<input type="checkbox"/> Edit Copy Delete	20	5	Destroy the Day
<input type="checkbox"/> Edit Copy Delete	21	5	Defend the Dawn
<input type="checkbox"/> Edit Copy Delete	22	5	Letters to the Lost
<input type="checkbox"/> Edit Copy Delete	23	6	The Mermaid, the Witch, and The Sea
<input type="checkbox"/> Edit Copy Delete	24	6	The Siren, the Song, and The Spy
<input type="checkbox"/> Edit Copy Delete	25	7	The Third Daughter
<input type="checkbox"/> Edit Copy Delete	26	7	The Second Son
<input type="checkbox"/> Edit Copy Delete	27	7	Sweet and Bitter Magic
<input type="checkbox"/> Edit Copy Delete	28	7	Sofi and the Bone Song
<input type="checkbox"/> Edit Copy Delete	29	8	Crier's War
<input type="checkbox"/> Edit Copy Delete	30	8	Iron Heart

## Database SQL Testing & Trialing

Add screenshots showing different SQL queries that you are trialing and testing

The first author in the database is Casey McQuiston. The query for Author ID = 1 returned her books. In my code, this query is used with a variable for the ID. I used the 'books' table for this query, not 'authors', since the website displays the book titles that correspond to an author.

Name: Amaya Greene

✓ Showing rows 0 - 2 (3 total, Query took 0.0002 seconds.)

```
SELECT * FROM `Books` WHERE Author_ID = 1;
```

☐ Profiling [ [Edit inline](#) ]

☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

	Book_ID	Author_ID	Title
<input type="checkbox"/> Edit  Copy  Delete	1	1	One Last Stop
<input type="checkbox"/> Edit  Copy  Delete	2	1	Red White and Royal Blue
<input type="checkbox"/> Edit  Copy  Delete	3	1	The Pairing

The first book in my database is One Last Stop. The query for Book ID = 1 displayed this book.

✓ Showing rows 0 - 0 (1 total, Query took 0.0001 seconds.)

```
SELECT * FROM `Books` WHERE Book_ID = 1;
```

☐ Profiling [ [Edit inline](#) ]

☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

	Book_ID	Author_ID	Title
<input type="checkbox"/> Edit  Copy  Delete	1	1	One Last Stop

My title search feature finds titles that include the search term. Testing this query with the term “heart” displayed the expected books.

✓ Showing rows 0 - 3 (4 total, Query took 0.0002 seconds.)

```
SELECT * FROM `Books` WHERE Title LIKE '%heart%';
```

☐ Profiling [ [Edit inline](#) ]

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

				Book_ID	Author_ID	Title
<input type="checkbox"/>	Edit	Copy	Delete	4	2	Heartstopper
<input type="checkbox"/>	Edit	Copy	Delete	15	4	This Poison Heart
<input type="checkbox"/>	Edit	Copy	Delete	30	8	Iron Heart
<input type="checkbox"/>	Edit	Copy	Delete	37	10	The Heart Break Bakery

My author search returns any items that have the search term in the author's first, middle, or last name. I tested this with the term "may", which returned Louisa May Alcott.

✓ Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

```
SELECT * FROM `Author` WHERE CONCAT(First, ' ', Middle, ' ', Last) LIKE '%may%' OR CONCAT(First, ' ', Last) LIKE '%may%';
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ]

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

				Author_ID	First	Middle	Last
<input type="checkbox"/>	Edit	Copy	Delete	19	Louisa	May	Alcott

I also tested this query with "Casey" and "Green" to check that first and last names would work too.



✓ Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

```
SELECT * FROM `Author` WHERE CONCAT(First, ' ', Middle, ' ', Last) LIKE '%green%' OR CONCAT(First, ' ', Last) LIKE '%green%';
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ]

☐ Show all | Number of rows:  Filter rows:

Extra options

	Author_ID	First	Middle	Last
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	20	John		Green

✓ Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

```
SELECT * FROM `Author` WHERE CONCAT(First, ' ', Middle, ' ', Last) LIKE '%casey%' OR CONCAT(First, ' ', Last) LIKE '%casey%';
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ]

☐ Show all | Number of rows:  Filter rows:

Extra options

	Author_ID	First	Middle	Last
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1	Casey		McQuiston

My website has the option to display the most recent books entered into the database. I tested this query and it displayed books with the ID 89-90, which are the 10 most recent.

Name: Amaya Greene

✓ Showing rows 0 - 9 (10 total, Query took 0.0001 seconds.) [Book\_ID: 89... - 80...]

```
SELECT * FROM `Books` ORDER BY Book_ID DESC LIMIT 10;
```

☐ Profiling [ Edit inline ] [ Edit ]

Extra options

	Book_ID	Author_ID	Title
<input type="checkbox"/> Edit Copy Delete	89	20	Will Grayson, Will Grayson
<input type="checkbox"/> Edit Copy Delete	88	20	Paper Towns
<input type="checkbox"/> Edit Copy Delete	87	20	Looking for Alaska
<input type="checkbox"/> Edit Copy Delete	86	20	An Abundance of Katherines
<input type="checkbox"/> Edit Copy Delete	85	20	The Fault in Our Stars
<input type="checkbox"/> Edit Copy Delete	84	20	Turtles All the Way Down
<input type="checkbox"/> Edit Copy Delete	83	19	Eight Cousins
<input type="checkbox"/> Edit Copy Delete	82	19	Good Wives
<input type="checkbox"/> Edit Copy Delete	81	19	Jo's Boys
<input type="checkbox"/> Edit Copy Delete	80	19	Little Men

## Media Used

Provide evidence / a statement showing that images/material are copyright free. For excellence all images should be under 500kbs.

Add screenshots showing different linking SQL queries that you are trialing and testing

I sourced my image from unsplash, meaning it's copyright free.

✓ Free for use under the Pixabay [Content License](#)

[https://unsplash.com/photos/brown-wooden-book-shelf-Zh0mcQuw\\_EQ](https://unsplash.com/photos/brown-wooden-book-shelf-Zh0mcQuw_EQ)

## Iterative Process

Provide evidence you have used the iterative process to improve the database

## Search testing

Input	Expected outcome	Outcome
Searches "Casey" in author search	Casey McQuiston books displayed	All books displayed
Searches "ca" in book search	Titles containing "ca" are displayed	Casey McQuiston and A. R. Capetta books displayed, as well as titles containing "ca"

Name: Amaya Greene

Searches "bean" in all search	No results message	No results message
Leaves the search field blank and clicks search button	Error message	Error message

Both search functions didn't work as expected.

When testing the author search, I found that it displays all the books in the database, not books by the specific author.

casey Author 🔍







**'casey' Books (90 Results)**

One Last Stop <a href="#">Casey McQuiston</a>	
Red White and Royal Blue <a href="#">Casey McQuiston</a>	
The Pairing <a href="#">Casey McQuiston</a>	
Heartstopper <a href="#">Alice Oseman</a>	
Loveless <a href="#">Alice Oseman</a>	

I'd made a typo in my sql\_conditions, which I fixed then tested again.


```
elseif($search_type == "author") {
    $sql_conditions = " ";
}

elseif($search_type == "author") {
    $sql_conditions = "WHERE $name_search";
}
```

'casey' Books (3 Results)	
One Last Stop <a href="#">Casey McQuiston</a>	 
Red White and Royal Blue <a href="#">Casey McQuiston</a>	 
The Pairing <a href="#">Casey McQuiston</a>	 

This fixed the issue.

I also found an issue with my book search.

Book ▼


'ca' Books (10 Results)	
One Last Stop <a href="#">Casey McQuiston</a>	
Red White and Royal Blue <a href="#">Casey McQuiston</a>	
The Pairing <a href="#">Casey McQuiston</a>	
Once and Future <a href="#">A R Capetta</a>	
The Heart Break Bakery <a href="#">A R Capetta</a>	

The book search displayed books with the search term in the author's name, when it's meant to only display books with the search term in the title. I discovered I'd used the wrong word in my book search.

```
<select class="quick-choose" name="search_type">
  <option value="all" selected>All</option>
  <option value="book">Book</option>
  <option value="author">Author</option>
</select>
```

Changing it to 'title' to match the database fixed the issue.

```
<select class="quick-choose" name="search_type">
  <option value="all" selected>All</option>
  <option value="title">Book</option>
  <option value="author">Author</option>
</select>
```

Name: Amaya Greene

### 'ca' Books (3 Results)

Apocalypse Cow

[O R Sorel](#)

King of Scars

[Leigh Bardugo](#)

Carrie Soto is Back

[Taylor Jenkins Reid](#)

## Retesting

Searches "ca" in all search	Casey McQuiston and A. R. Capetta books displayed, as well as titles containing "ca"	Casey McQuiston and A. R. Capetta books displayed, as well as titles containing "ca"
Searches "ca" in book search	Titles with "ca" in them are displayed	Titles with "ca" in them are displayed
Searches "ca" in author search	Casey McQuiston and A. R. Capetta books are displayed	Casey McQuiston and A. R. Capetta books are displayed

After testing again, all search features worked as expected.

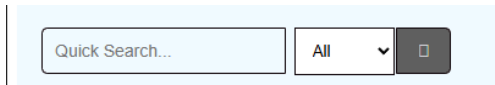
## Button/link functionality testing

Input	Expected outcome	Outcome
Clicks "Home"	Displays home page	Displays home page
Clicks "All Books"	Displays all books page	Displays all books page
Clicks "Recent"	Displays 10 most recent books	Displays 10 most recent books
Clicks "Random"	Displays 10 random books	Displays 10 random books
Clicks "Casey McQuiston"	Displays all Casey McQuiston books	Displays Casey McQuiston books
Clicks login button ( <a href="#">see further login testing here</a> )	Login page displayed	Login page displayed
Clicks logout button	Admin access removed, login page displayed	Admin access removed, login page displayed

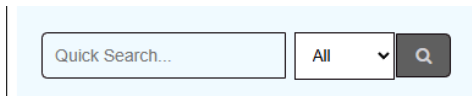
Name: Amaya Greene

## Other Iterative Changes

The search box didn't have an icon, and wasn't properly aligned.

A search bar with a light blue background. It contains a text input field with the placeholder "Quick Search...", a dropdown menu with "All" selected, and a square button with a small icon.

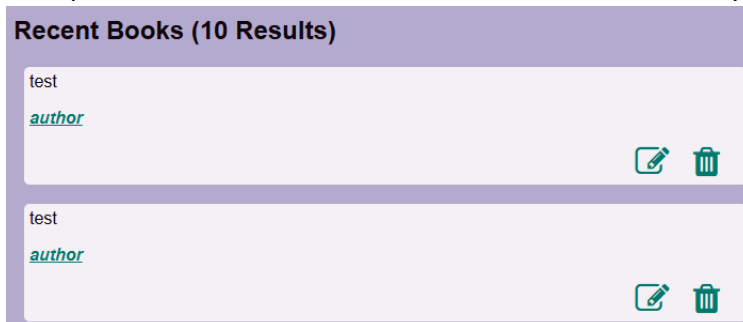
I researched to solve the problem and found it was an issue with the font family.

A search bar with a light blue background. It contains a text input field with the placeholder "Quick Search...", a dropdown menu with "All" selected, and a square button with a magnifying glass icon.

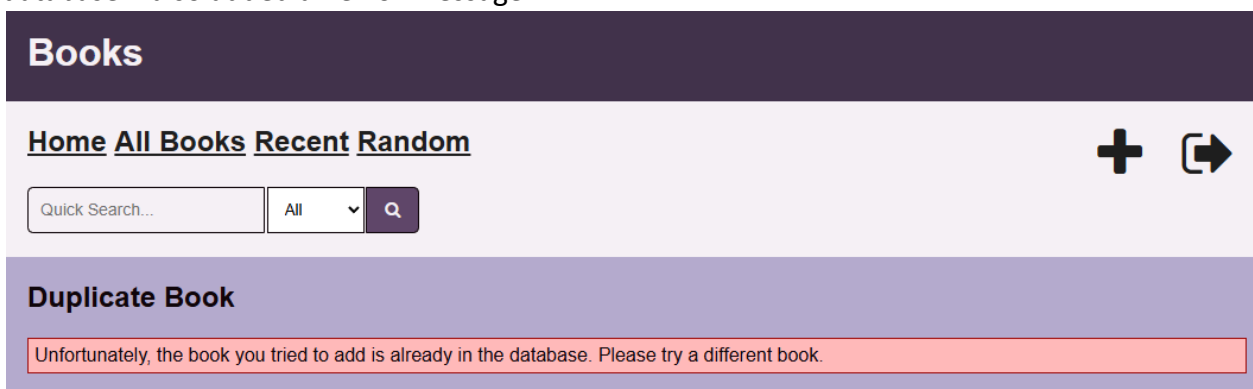
I also changed the spacing and sizes to make it all aligned and aesthetically pleasing.

A search bar with a light purple background. It contains a text input field with the placeholder "Quick Search...", a dropdown menu with "All" selected, and a square button with a magnifying glass icon. The elements are better aligned and spaced.

I noticed that it was possible to add two of the same book. I decided to change this, as having multiple records of the same book would be unnecessary entries in the database.

A section titled "Recent Books (10 Results)" with a purple background. It contains two identical entries. Each entry has a text input field with "test", a link labeled "author", and two icons: a pencil and a trash can.

To fix the problem, I added an if statement to check whether the book title is already in the database. I also added an error message.

A screenshot of the "Books" app interface. The top header is dark purple with the title "Books". Below it is a navigation bar with links: "Home", "All Books", "Recent", and "Random". To the right of the links are a plus sign and a right arrow icon. Below the navigation bar is a search bar with a light purple background, containing a text input field with "Quick Search...", a dropdown menu with "All" selected, and a square button with a magnifying glass icon. Below the search bar is a section titled "Duplicate Book" with a purple background. At the bottom, there is a red error message box that says: "Unfortunately, the book you tried to add is already in the database. Please try a different book."

When retesting, I noticed that the footer had disappeared, so I fixed this and tested again.

Books

[Home](#)
[All Books](#)
[Recent](#)
[Random](#)

Quick Search...

All

Q

+

→

Duplicate Book

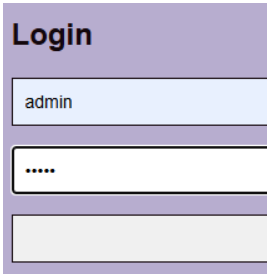
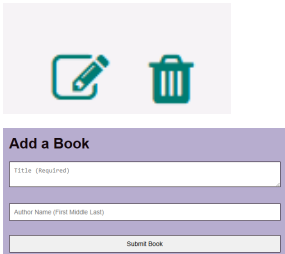

Unfortunately, the book you tried to add is already in the database. Please try a different book.

CC Amaya 2025

Making this change was essential, as it allowed me to avoid redundant data in the database.

## User Log in

Provide evidence that users can only log in to the admin area if they use the correct username / password combination

Username	Password	Expected outcome	Outcome
admin 	Correct password	Admin access granted	Admin access granted 
a	Incorrect password	Incorrect username/password message	Incorrect username/password message 
a	Correct password	Incorrect username/password message	Incorrect username/password message
admin	Incorrect password	Incorrect username/password message	Incorrect username/password message

Name: Amaya Greene

## Add, edit and delete a record

Provide evidence that users can add, edit or delete a record

### Add a book

Input	Expected outcome	Outcome
<p>Title and author entered</p> <div><b>Add a Book</b> <input type="text" value="Dracula"/> <input type="text" value="Bram Stoker"/> <input type="button" value="Submit Book"/></div>	Success message	<p>Success message</p> <div><b>Insert Book Success</b> You have inserted the following book... <div>Dracula <a href="#">Bram Stoker</a></div></div>
<p>Just title entered</p> <div><b>Add a Book</b> <input type="text" value="Dracula"/> <input type="text" value="Author Name (First Middle Last)"/> <input type="button" value="Submit Book"/></div>	Success message with anonymous author	<p>Success message with anonymous author</p> <div><b>Insert Book Success</b> You have inserted the following book... <div>Dracula <a href="#">Anonymous</a></div></div>
<p>Just author entered</p> <div><b>Add a Book</b> <input type="text" value="Title (Required)"/> <input type="text" value="Bram Stoker"/> <input type="button" value="Submit Book"/></div>	Error message	<p>Error message</p> <div>Please fill out this field.</div>
<p>Duplicate book entered</p> <div><b>Add a Book</b> <input type="text" value="test"/> <input type="text" value="test"/> <input type="button" value="Submit Book"/></div>	Error message	<p>Duplicate book allowed</p> <div><b>Recent Books (10 Results)</b> <div>test <a href="#">author</a></div><div>test <a href="#">author</a></div></div>

Name: Amaya Greene



As mentioned above, my program originally allowed for duplicate books. I fixed and retested the issue. Now the website displays an error message, so it works as expected.

**Duplicate Book**

Unfortunately, the book you tried to add is already in the database. Please try a different book.

## Edit/delete a book

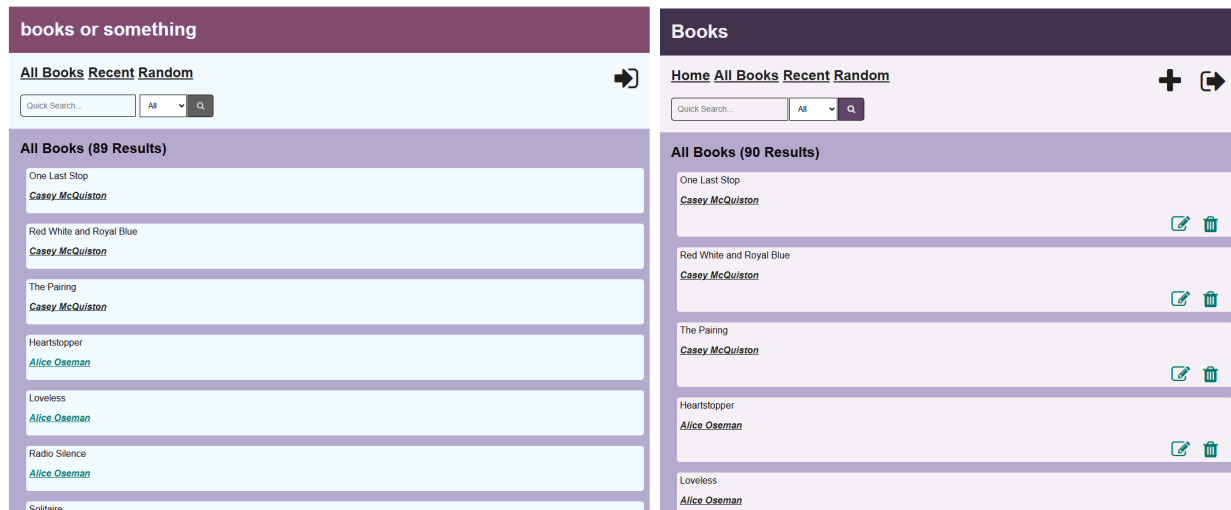
Input	Expected outcome	Outcome
<p>Change title</p> <div> <b>Edit a Book</b> <div>Dracula 2</div> <div>If you edit an author, it will change the author name for the title being edited. It does not edit the author name on all books attributed to that author.</div> <div>Bram Stoker</div> <div>Edit Title</div> </div>	Title is changed	<div> <b>Edit Book Success</b> <p>You have edited the book. The entry is now...</p> <div>           Dracula 2  <u><a href="#">Bram Stoker</a></u> </div> </div>
<p>Change author</p> <div> <b>Edit a Book</b> <div>Dracula</div> <div>If you edit an author, it will change the author name for the title being edited. It does not edit the author name on all books attributed to that author.</div> <div>John Green</div> <div>Edit Title</div> </div>	Author is changed	<div> <b>Edit Book Success</b> <p>You have edited the book. The entry is now...</p> <div>           Dracula  <u><a href="#">John Green</a></u> </div> </div>
Delete book (cancel button pressed)	User redirected to home page	User redirected to home page
<p>Delete book (delete button pressed)</p> <div> <b>Delete Book - Are You Sure?</b> <p>Do you really want to delete the book in the box below?</p> <div>           Dracula  <u><a href="#">John Green</a></u> </div> <div> <a href="#">Yes, Delete it!</a> <a href="#">No, take me back</a> </div> </div>	Success message	<div> <b>Delete Success</b> <p>The requested book has been deleted.</p> </div>

## End User Feedback

Add evidence of end user feedback that has helped improve your website throughout the project

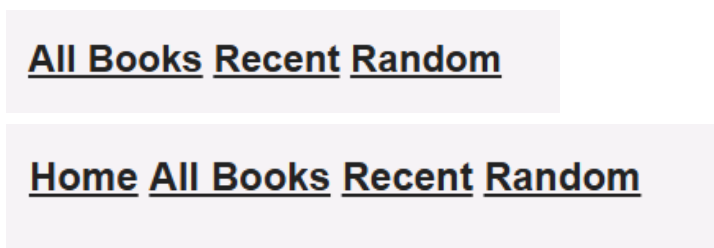
I tested my program with a friend. She gave me some valuable feedback on the aesthetics of my website. In particular, she noticed the colours didn't work together, especially the white, so it wasn't aesthetically pleasing. I used this information to change my colour palette.

Before and after:



I also tested on my mother. She let me know that it was frustrating to not be able to return back to the home page, so I added another link in my navigation bar.

Before and after:



Making this change involved trialling and testing for functionality. I tried linking to the page then tested.


```
<a href="content/home.php">Home</a>
<a href="index.php?page=all_results&search=all">All Books</a>
<a href="index.php?page=all_results&search=recent">Recent</a>
<a href="index.php?page=all_results&search=random">Random</a>
```

Name: Amaya Greene

## Welcome

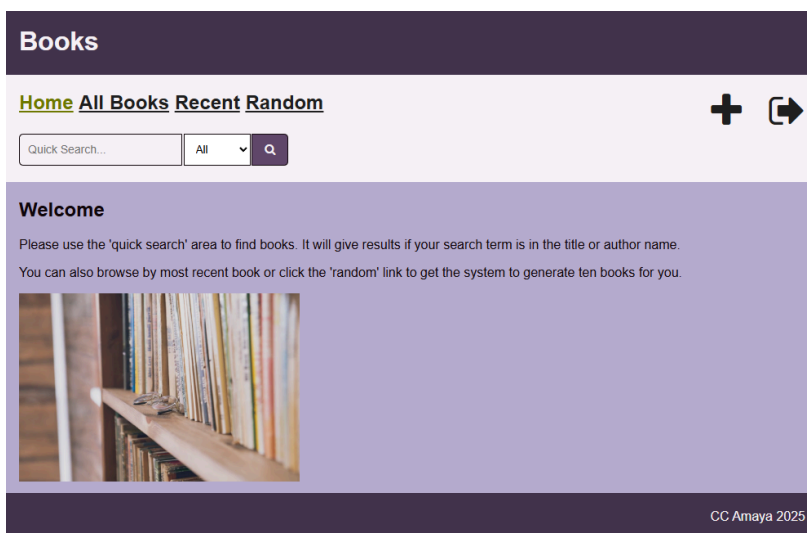
Please use the 'quick search' area to find books. It will give results if your search term is in the title or author name.

You can also browse by most recent book or click the 'random' link to get the system to generate ten books for you.

 An open book

Testing showed me that the page didn't display properly, and I realised I'd linked the page incorrectly. I tested it again and it displayed as I'd wanted.

```
<a href="index.php">Home</a>
<a href="index.php?page=all_results&search=all">All Books</a>
<a href="index.php?page=all_results&search=recent">Recent</a>
<a href="index.php?page=all_results&search=random">Random</a>
```



When testing on my mother again with the new menu bar, she noticed that the hover colour of my navigation bar didn't match the colour scheme. I changed it to a light purple colour.

Before and after:

[Home](#) [All Books](#) [Recent](#) [Random](#)

[Home](#) [All Books](#) [Recent](#) [Random](#)

## Final Outcome

### Final Testing:

Name: Amaya Greene

Add links to videos showing the website interface functions as intended. E.g. show a logged in user editing, adding and deleting data.

[https://drive.google.com/file/d/1\\_A19ITi5i5PPLuV7OX6slpkMiy-Qdigl/view?usp=sharing](https://drive.google.com/file/d/1_A19ITi5i5PPLuV7OX6slpkMiy-Qdigl/view?usp=sharing)

## Relevant Implications

How have you addressed the relevant implications? Consider functionality, aesthetics, legal, accessibility, and usability.

### Usability

Usability refers to how easy the site is to use. This means following the usability heuristics. It is important that the website is easy to use so that the user can accomplish their task on the website, and doesn't have to waste time figuring out how to use the site. In a database, this means it needs to be easy to search and find information, as well as add or edit information.

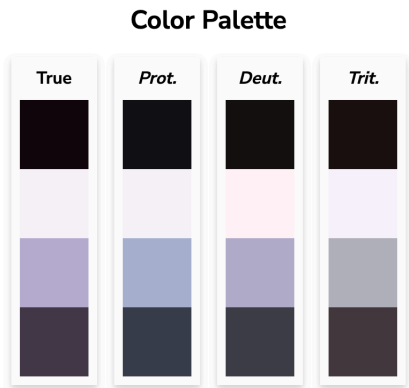
I addressed this by carefully considering the layout of my website. I placed the most important information at the top of each page, creating a visual hierarchy which helps the user navigate and understand the content. I used a consistent, readable font and layout to ensure the pages are easily understandable. My autofill feature makes it easier to add an author's name, preventing errors from typos. Users can also easily recognise and recover from errors through my clear error messages.

I addressed usability in my testing by observing my parents and my peers using my website. This way I got to see how easy they found it to navigate and find information on the website. I then improved the navigation bar to be more usable, with a button to take users back to the home page.

### Accessibility

Accessibility means considering the different needs of users that might help them be able to use the website more effectively. This might involve using alt image text for blind users, or large readable fonts for dyslexic users. It's important to consider accessibility so that the website can be easily used by anyone.

I ensured my colour choices addressed this by using a colour blind checker to ensure that the website would still be understandable to those with colour blindness. This made me realise there are some slight differences in the colours, however they have high contrast and won't impact a colour-blind user's understanding when viewing the site.



I chose a sans serif font as they are generally easier to read than serif fonts. They are also more dyslexia friendly. Doing this helps all users be able to read the font which is important so that no group of people has any restrictions on how they can interact with my website.

### **Aesthetics**

Aesthetics involve the way the website looks. This can include making the layout balanced, using pleasing colors, and simplifying information so that it's not visually overwhelming. I addressed this implication by making specific aesthetic choices throughout my planning and testing. This was to make the website more engaging and pleasing to users, making them more likely to enjoy using it and want to continue.

I did this by keeping my layout simple, so as to not overwhelm the user with too much information as this can negatively affect the aesthetics of the website by making it feel too cluttered. I also used my colours to link the website together. By having a similar heading and footer colour, the website looks balanced and visually appealing.

I chose visually appealing colours. The purples are soft and not too bright, so that they're nice to look at. I also changed the white to a different shade when I received user feedback that it didn't fit nicely with the other colours. Another change was the hover colour of my navigation bar links. During testing, a user noticed the colour didn't match the other colours of the database, so I changed it to a light purple. These decisions and changes ensured the site was nice to look at.

I also changed the layout of my search bar. It originally didn't line up, with each box being a different size, and uneven spacing. I aligned the boxes and spacing to make it more aesthetically pleasing.