

Functional side

Bookish Corner Web Application

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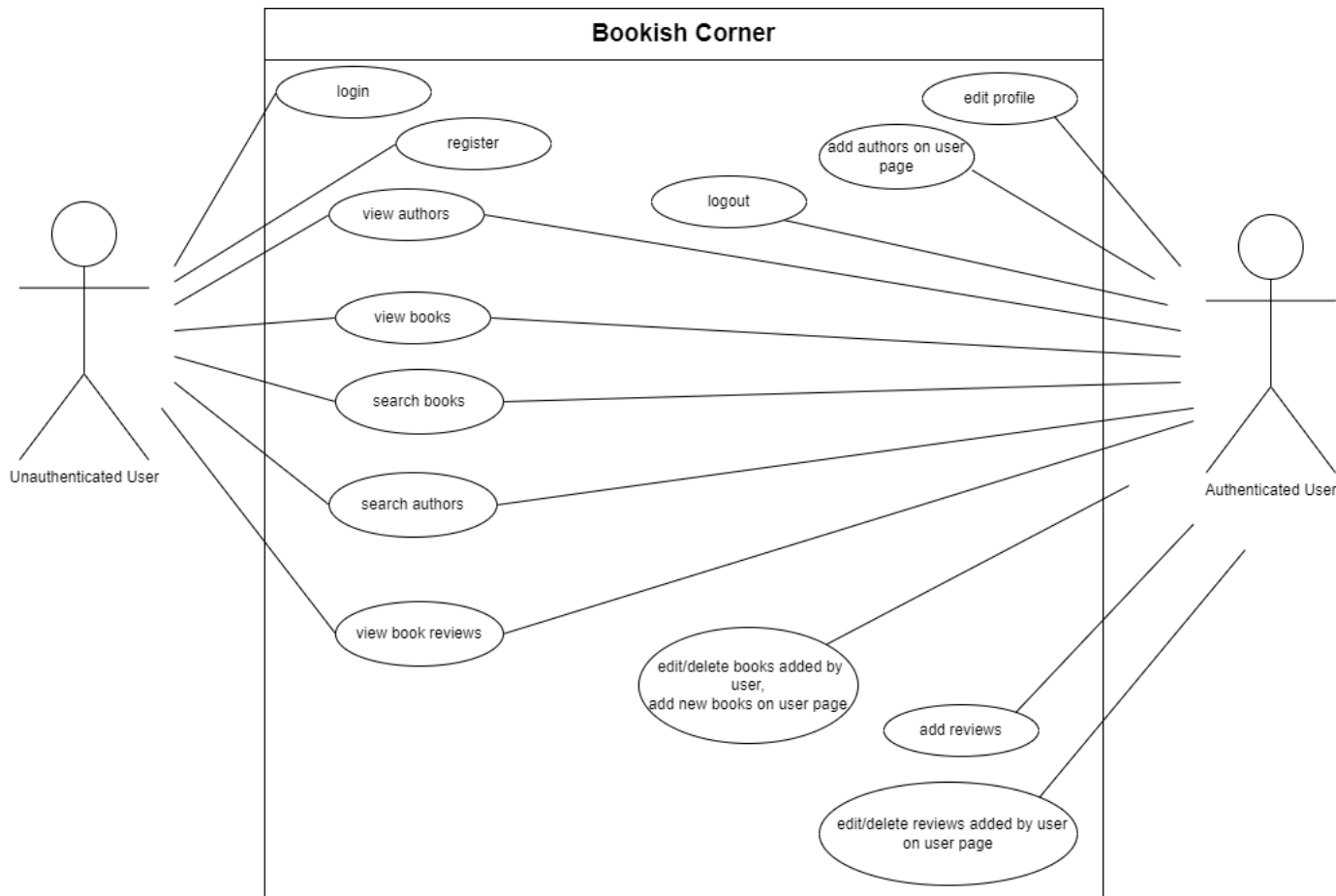
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Context description

The web application "BookishCorner" serves as a platform connecting readers with a diverse list of authors and their literary works. The primary theme of this web application is reader engagement and literature exploration. BookishCorner will be created to achieve the following key objectives:

- Provide a user-friendly platform that enables users to comfortably explore a diverse selection of authors and their books, promoting a culture of reading.
- Ensure detailed information for each book, including cover images, titles, and short descriptions to show the essence of the book, along with user reviews to make easier book discovery based on individual interests.
- Save readers significant time by allowing them to view reviews for a particular book before diving into it, ensuring a satisfying reading experience and minimizing the chances of choosing an unsuitable book due to information in the description, which cannot provide enough information to show pros and cons presented in a certain book.
- Allow users to create an account on our website or log into their existing accounts. Authenticated users can view and edit their user pages. One significant benefit for authenticated users is that they can add new books, as well as edit and delete existing books they have added. Furthermore, they can add authors to the website. This functionality helps users to expand the platform by adding books, thereby enlarging the collection of books for their favourite authors. Additionally, the ability to add authors allows users to widen the selection of authors and extend the community of the website by attracting more people who may be interested in the newly added authors.
- Engage authenticated users by allowing them to add reviews, and then edit and delete all reviews they have left. Each review contains a clickable title of the book it refers to, enabling easy navigation to the book under which the user's review was left. This fosters a sense of community among readers and assists others in book selection.

Use case diagram



Description for use case diagram:

Unauthenticated Users

If a user has not created an account on the website and is not logged in, they can:

Login: Users can log into their account if they already have one, using the login page. They can access the login page via the link in the footer of each website page.

Registration: Users can create an account via the registration page if they have not previously used the Bookish Corner website. They can access the registration page via link in the footer of each website page.

View Authors: users can view a list of all author cards, which contain an image of the author, first name, last name, and a "View books" link that transfers the user to a page containing a list of book cards for that particular author. This list is accessible via the "List of authors" link in the header of the main page or the same link in the footer of each website page.

Search Books: users can search for books via the main page of the Bookish Corner website, which contains two buttons, "Books" and "Authors," and a search bar. If the user clicks on the "Books" button, it will activate the search among all books presented on the website. If the user's search request corresponds to a book or books presented on the website, the page will display one or more book cards. Clicking on a book card will transfer the user to the page of the desired book. If

no books are found based on the user's search request, the website will display the message: "No books were found for your search request 'user search request'!"

Search Authors: users can search for authors via the main page of the Bookish Corner website, which contains two buttons, "Books" and "Authors," and a search bar. If the user clicks on the "Authors" button, it will activate the search among all authors presented on the website. If the user's search request corresponds to an author or authors presented on the website, the page will display one or more author cards. Clicking on an author card will transfer the user to the page with books by the desired author. If no authors are found based on the user's search request, the website will display the message: "No authors were found for your search request 'user search request'!"

View Books: as mentioned earlier, each author card contains a link to the page with books by a certain author. Users can also search for books via the main page. Users can view all information about a book, such as the book cover image, title, author, description, and reviews, on the book page, which they are transferred to after clicking on a book card.

View Book Reviews: unauthorized users cannot add, edit, or delete reviews, but they can view reviews left by other users, which are displayed on the book page for each book. If the selected book does not have any reviews yet, the user will see a message in the review section notifying them: "There are no reviews for this book!"

Authenticated Users

If a user has created an account on the website and is logged in, they have some additional functionality beyond what is available to unauthenticated users:

View User Profile: After the user creates an account via the registration page or logs in via the login page, they are automatically transferred to the user page. The user can view their username on the right side of the user page. Under the username, a list of links to other pages is displayed, showing the actions an authorized user can perform, such as edit profile, add book, add author, and logout. On the user page, the user can view the books they have added, edit and delete them, and view reviews they have left, which can also be edited and deleted.

Edit User Profile: The user can edit their profile by clicking on the "Edit profile" link on the user page. The user will be transferred to the edit profile page, which contains fields filled with the user's information, such as username, email, and password. The user can change this information, and the changes will be reflected immediately after saving.

Add Review: An authorized user will see a text field on the book page, allowing them to write and submit a review for the desired book. After submitting, the review is immediately displayed on the book page and also in the review section on the user page.

Edit Review: The user can edit reviews they have added on their user page. The user page contains a review section displaying all reviews added by the user. Each review contains an edit button, allowing the user to change the review text. After saving, the review will display the updated content.

Delete Review: The user can delete reviews they have added on their user page. Each review contains a delete button, allowing the user to permanently delete the review from the system. The review will no longer be displayed on the user page or the book page.

Add Book: The user can add a book to the system by clicking on the "Add book" link on the user page. The user will be transferred to the add book page, which contains fields such as title, a selector to choose an author from the list of available authors, a description, and a button for uploading the book cover image. After filling in all necessary fields and clicking the add book button, the book will be added to the system and displayed on the user page in the book section.

Edit Book: The user can edit books they have added on their user page. The user page contains a book section displaying all books added by the user. Each book card contains an edit button, allowing the user to change all properties of the book. After saving, the book will display the updated content.

Delete Book: The user can delete books they have added on their user page. Each book card contains a delete button, allowing the user to permanently delete the book from the system. The book will no longer be displayed on the user page, the author's book page, or in search results.

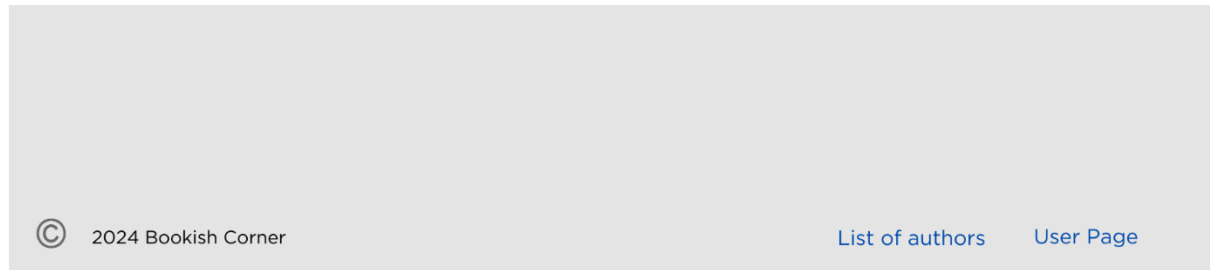
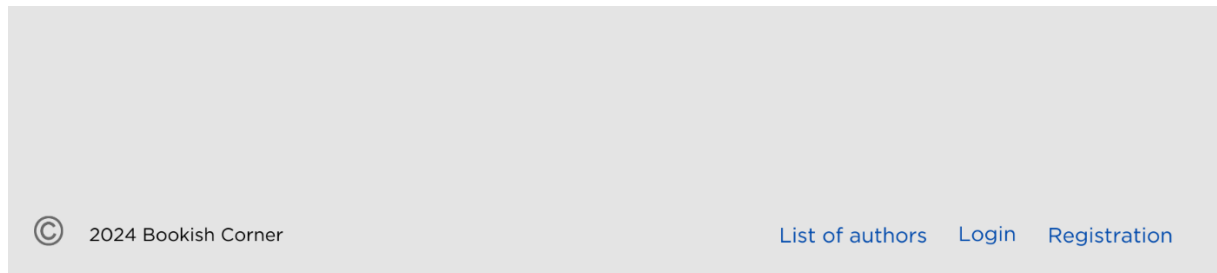
Add Author: The user can add an author to the system by clicking on the "Add author" link on the user page. The user will be transferred to the add author page, which contains fields such as first name, last name, and a button for uploading the author's image. After filling in all necessary fields and clicking the add author button, the author will be added to the system, displayed on the list of authors page, and can be searched via the main page. The author will also become an option for selecting during book addition.

Logout: The user can log out from their account via the link on the user page, which will transfer them to the main page. They will no longer be able to access authenticated user functionality until they log in again.

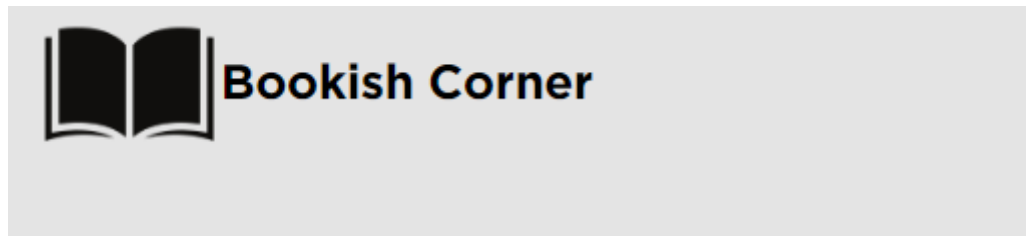
Wireframes

General wireframe:

This wireframe illustrates the footer presented on each page and how its appearance changes depending on whether the user is authenticated or not. If the user is not authenticated, the footer displays three links: a login page link, a registration page link, and a list of authors link, which transfers the user to the list of authors page. If the user is authenticated, the footer displays the list of authors link and a user page link, which transfers the user to their user page. Additionally, the footer contains a copyright sign for the website.



This wireframe represents the left part of the header on each page. This section contains the website logo and name. It is interactive, and if the user clicks on it, they will be transferred to the home page of the website.



Wireframe 1

Home page

This wireframe represents the home page of my web application, where users can find a link to the authors page in the top right corner. Clicking this link shows all available authors on the website. The home page also contains a search bar and two buttons, which divide the search between authors and books. Users can activate a search among books by clicking the "Books" button to find a book or books by title, or activate a search among authors by clicking the "Authors" button to find an author they are interested in.

Find a book of your choice!

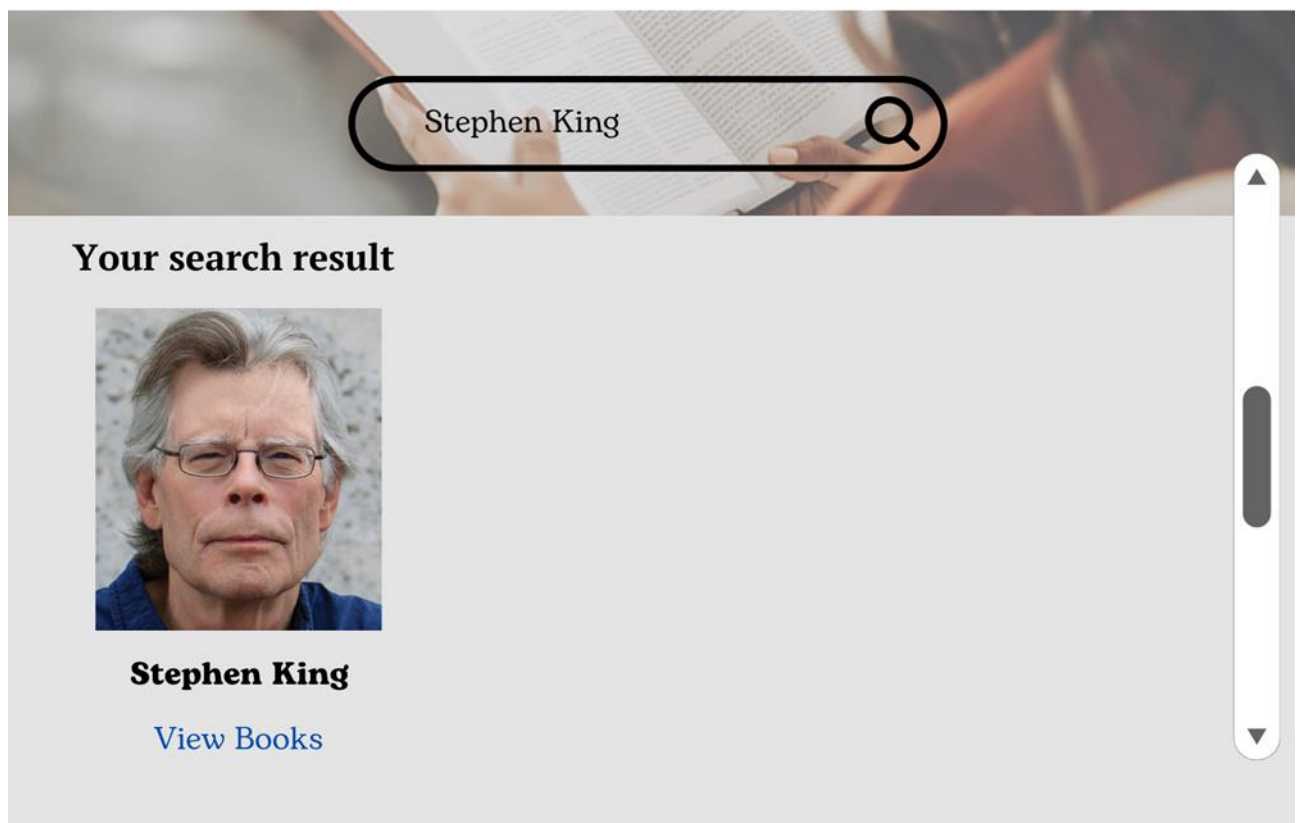
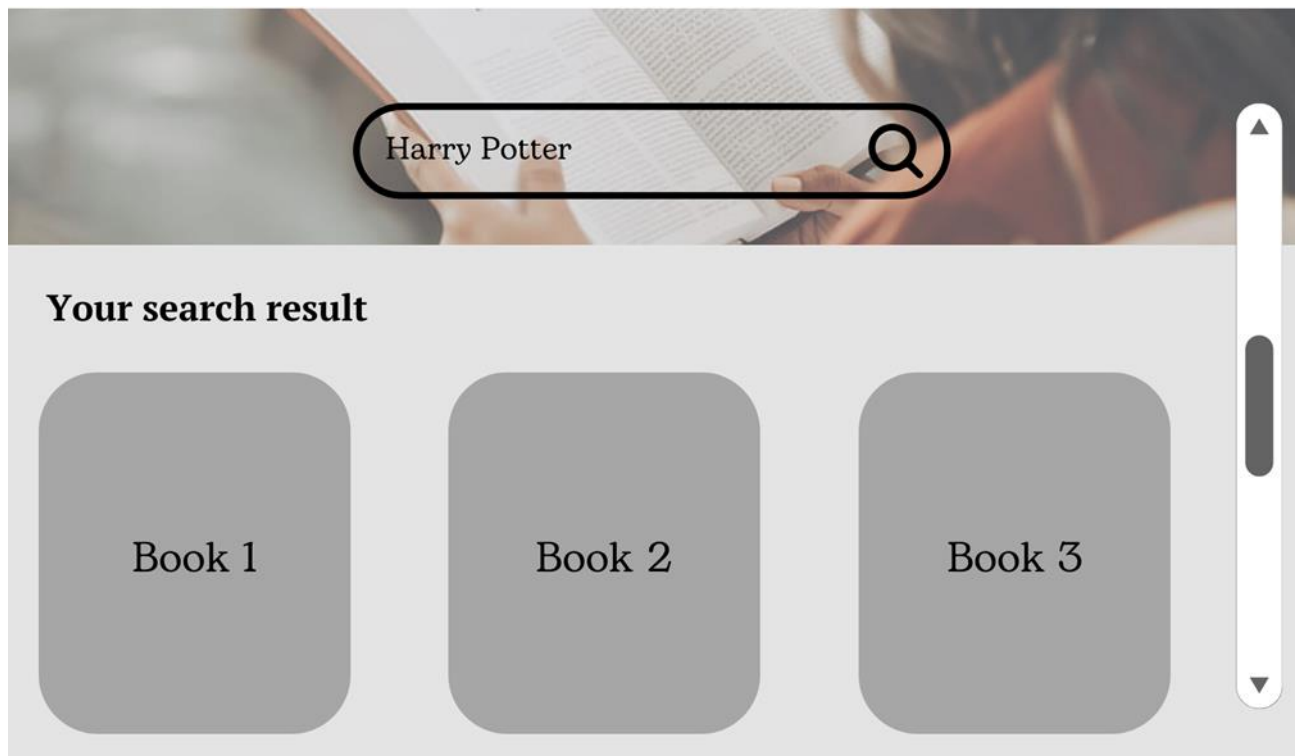
Books

Authors



These two wireframes represent how the user can use the search bar on the home page.

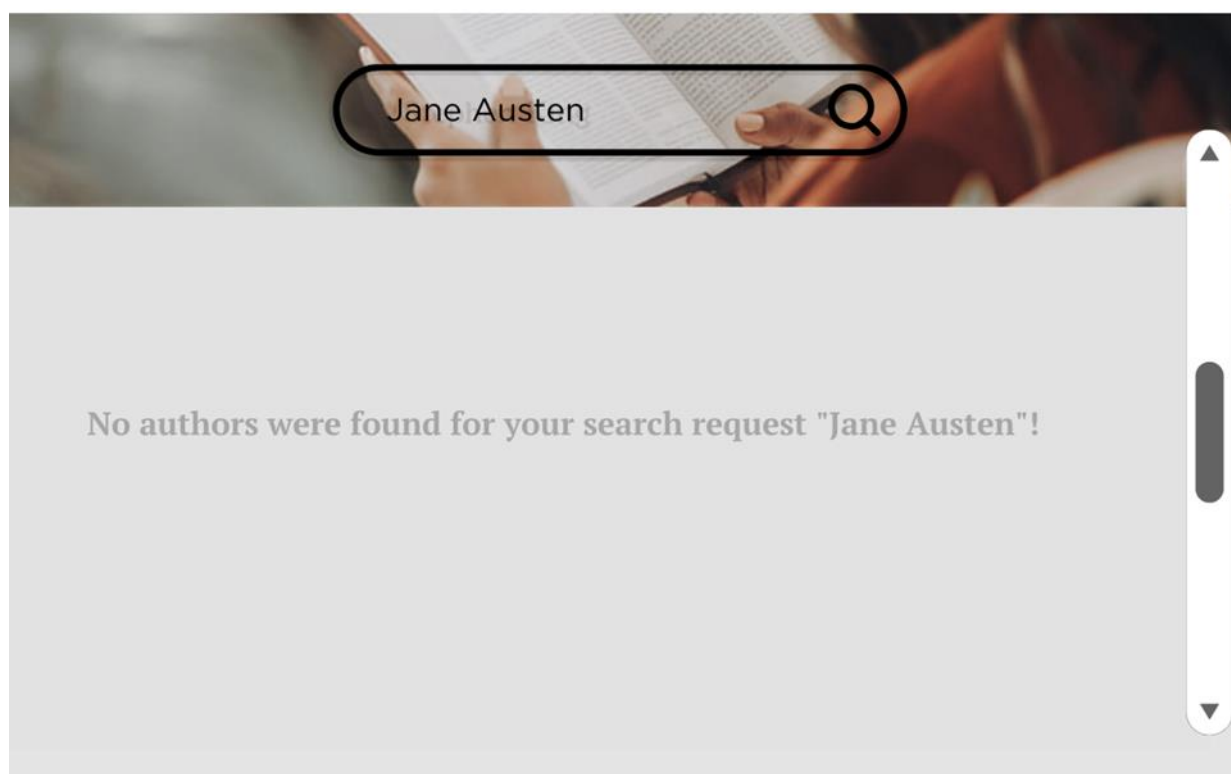
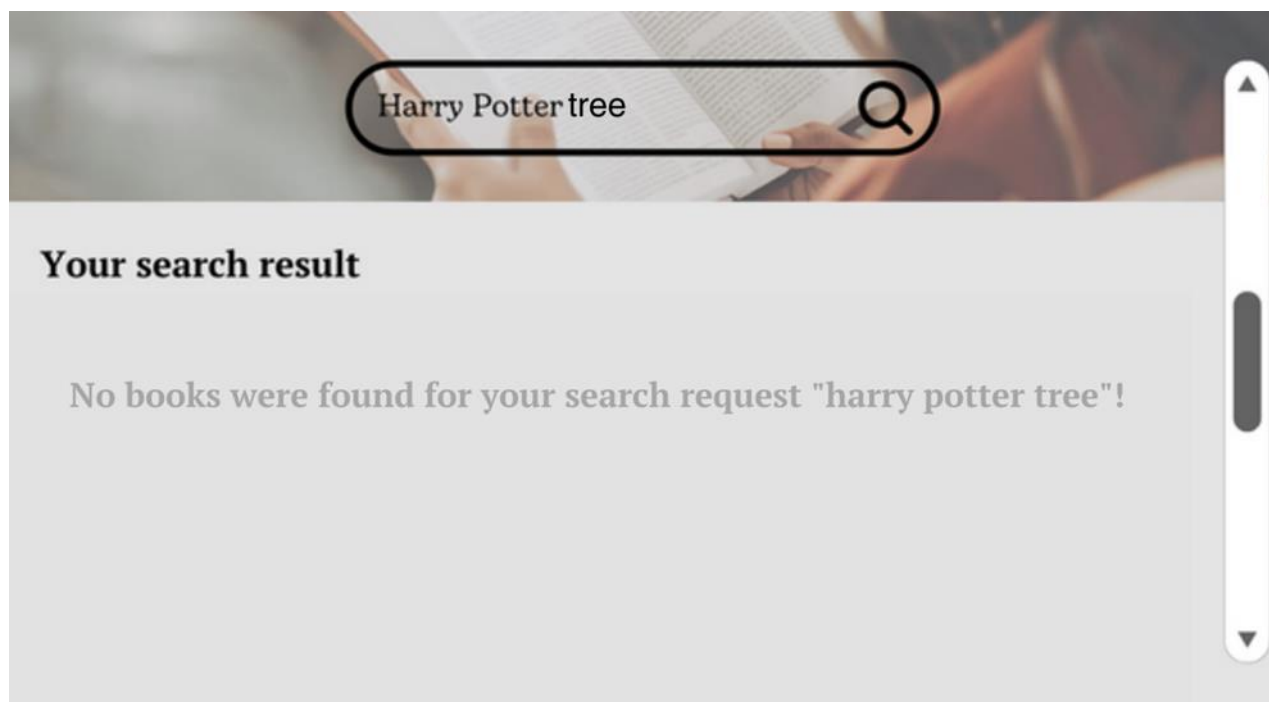
- 1) One way to use it is for the user to click on the "Books" button to activate the search among books. The user can then enter the name of the book they are interested in. The website will show the results based on the search request and display widgets of the books or a widget of one book that corresponds to this request. The user can click on a book widget and be transferred to the book page.
- 2) The second way is for the user to click on the "Authors" button to activate the search among authors. The user can then enter the author's first name, last name, or full name they are interested in. The application will display an author widget or author widgets, which contain information such as first name, last name, image of the author, and a clickable "View books" link. The user can click on the widget, and they will be transferred to a page with book widgets related to this particular author.



Invalid Search Scenario Wireframes

In case the user tries to search for a book with the "Authors" button activated, enters an incorrect search term, or searches for a book that is absent in the website database, the main page will notify the user that their search did not return any results with the following message: "No books were found for your search request 'user search request!'".

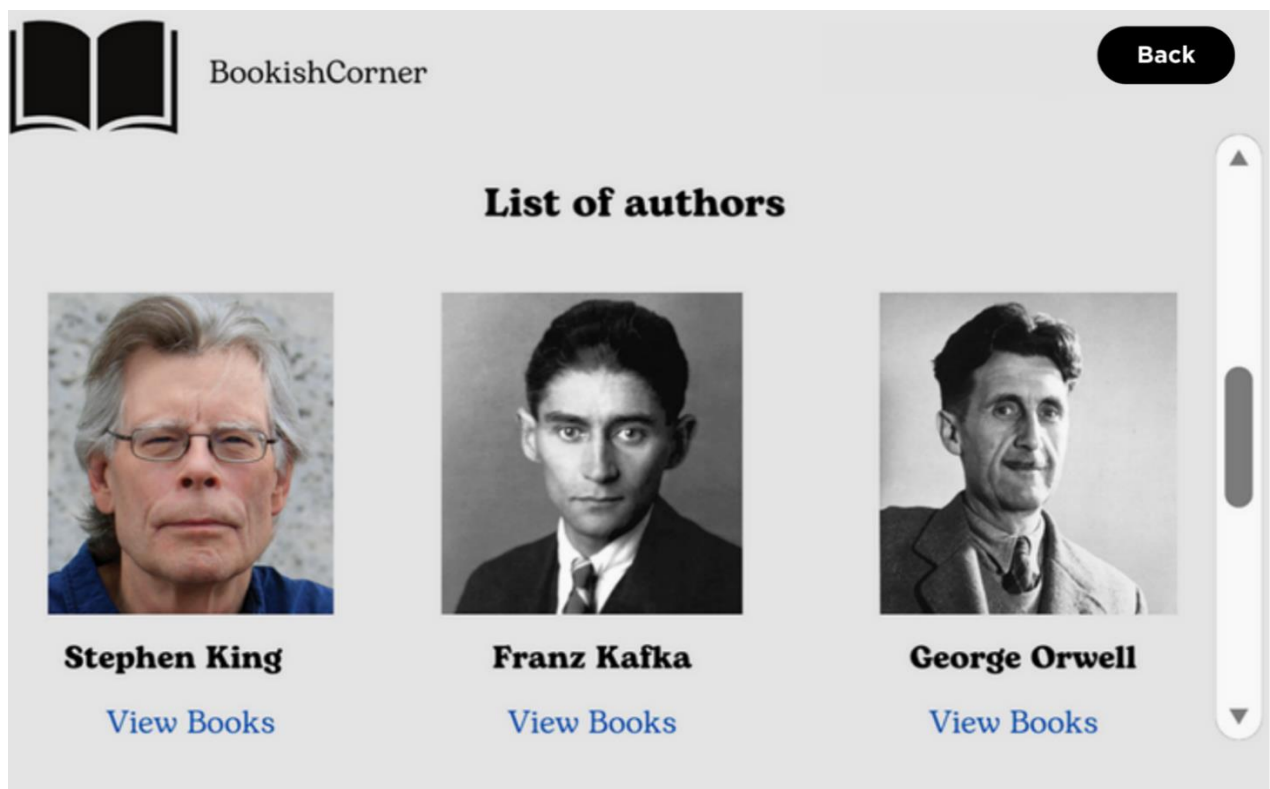
The same situation will apply for the author/authors search, but the message will change to: “No authors were found for your search request 'user search request'!”.



Wireframe 2

List of authors page

Illustration of what users will see if they click on the "List of Authors" link on the home page. This web page, the "List of Authors" page, represents all available authors. Each author's widget contains a photo, name, and a link to their books. If a user clicks on the author widget, they will be transferred to a page with book widgets for books by this particular author. The back button on the book list page will return the user to the "List of Authors" page, and the back button on the "List of Authors" page will return the user to the home page.

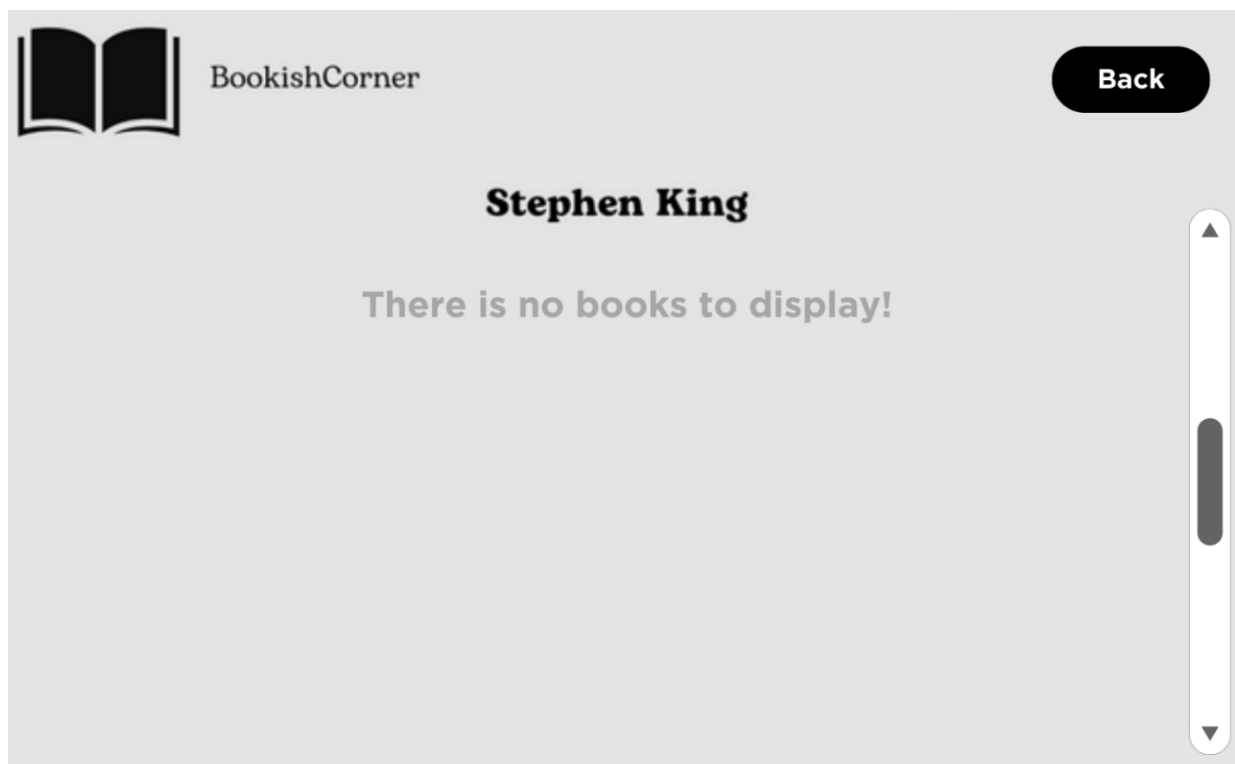
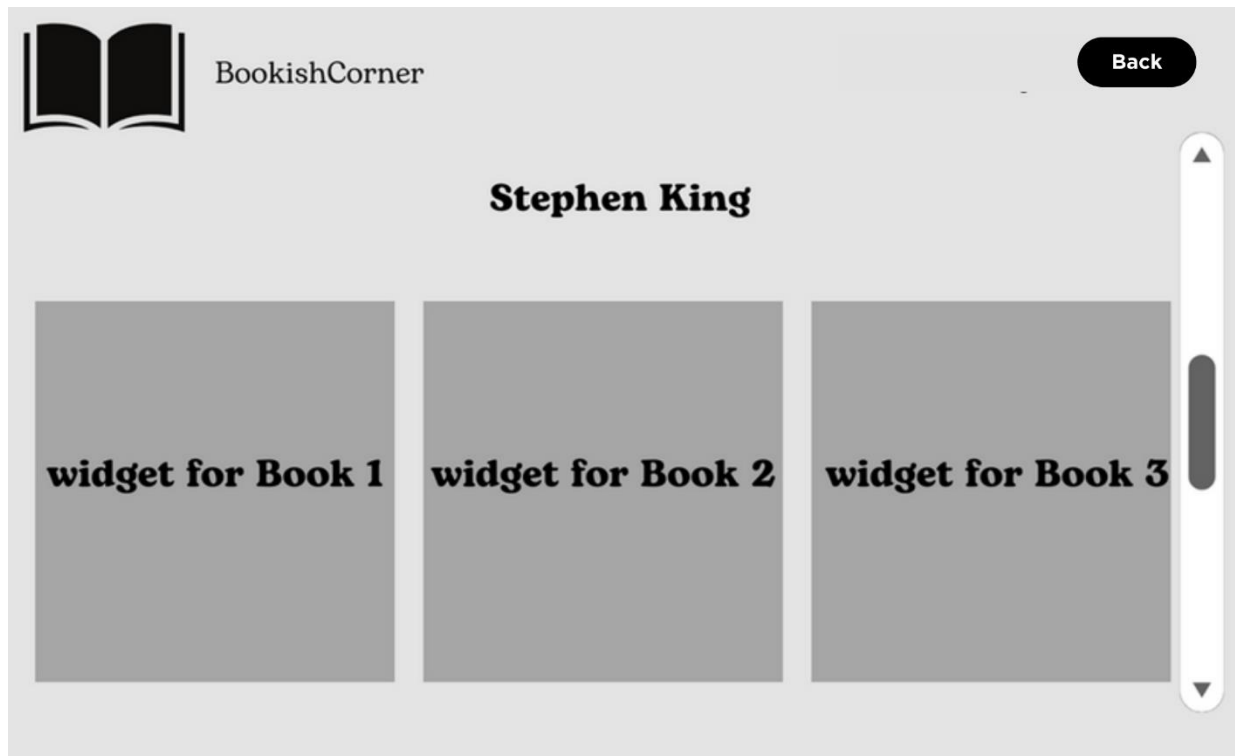


Wireframe 3

Author books page

As described earlier, if the user clicks on the author widget, they will see the books page of a certain author. The page contains the name of the author and widgets for each book. If the user clicks on one of these widgets, the application will transfer them to the book page. Additionally, this page contains a back button, which will return the user to the “List of Authors” page.

In case the author was newly added and no books for this author have been uploaded yet, the website will display a message for the user: “There are no books to display.”



Wireframe 5

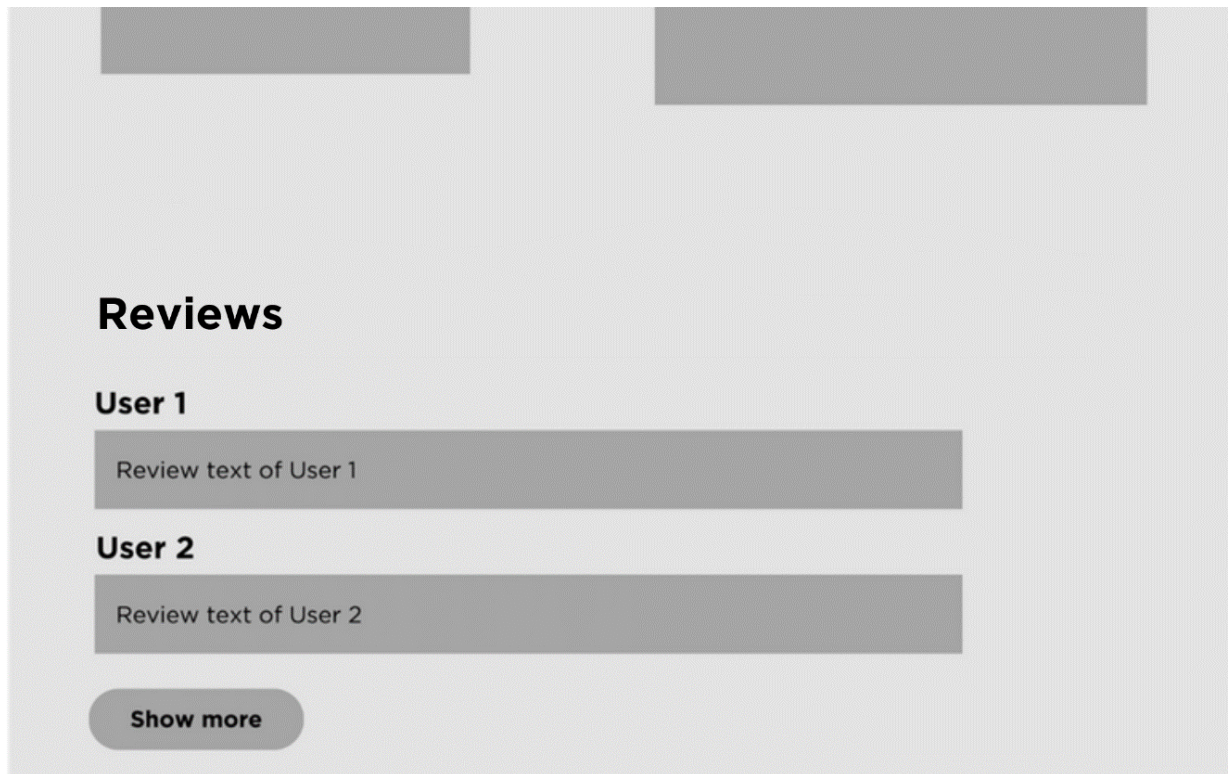
Book page

This wireframe represents how the book page works. The page displays the book cover, title, author, description text, and reviews for each book. All reviews are placed under the "Reviews" section of the page. Here, unauthorized users can view reviews on this book from other users. If the user is authorized, they will also see a text field for writing a review, which the user can submit, and it will immediately appear in the review section.

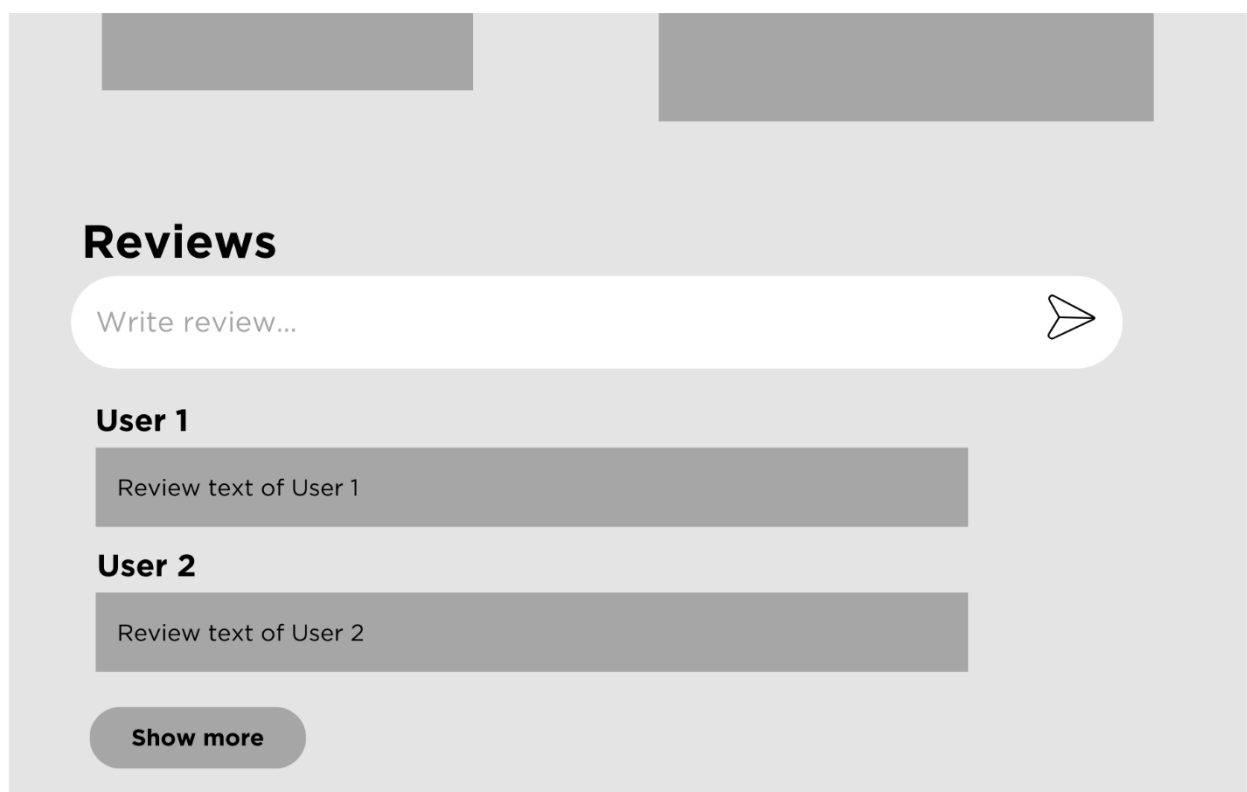
This page contains a back button that will transfer the user to the home page.



The review section of unauthorized users:



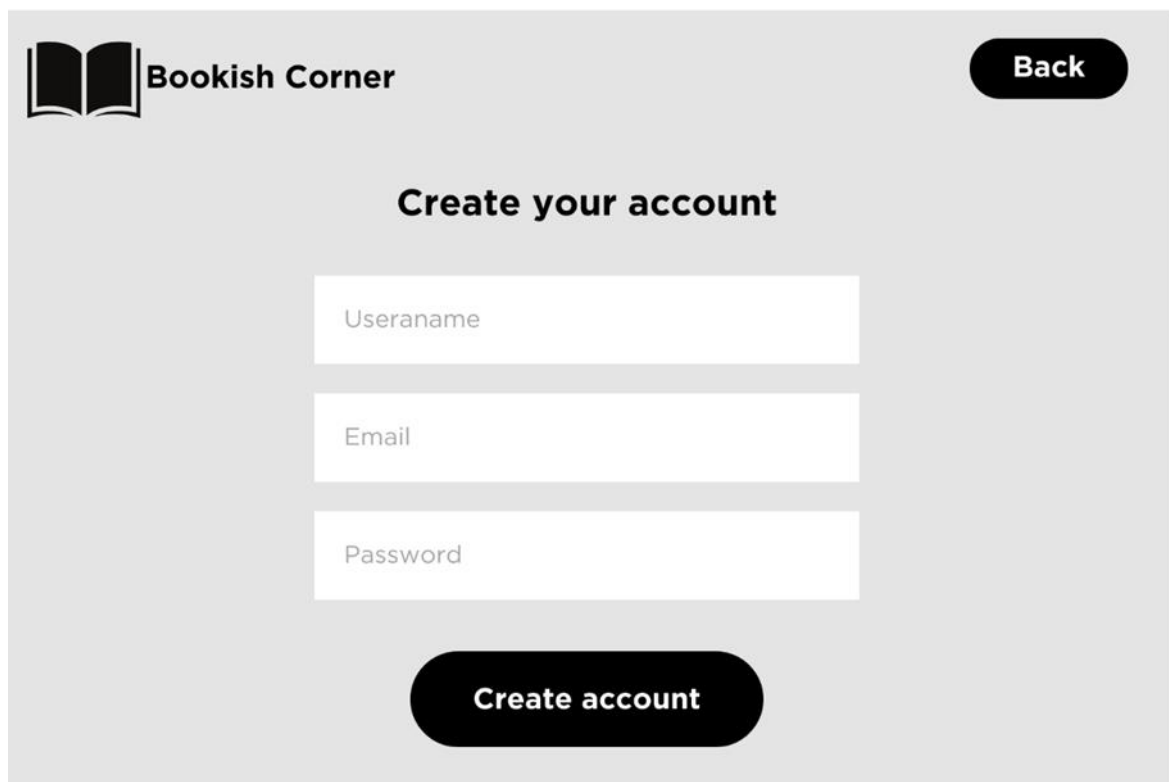
The review section of authorized users:



Wireframe 6

Registration page

These wireframes represent the registration page, where the user can create an account if they have not previously used the "Bookish Corner" website and do not have an account yet. This page can be accessed through the "Registration" link in the footer of each website page. To create an account, the user needs to fill in the following information: username, which will then be displayed on the user page, email address, and password. After the user fills in all the information correctly and presses the "Create Account" button, they will receive the message: "User successfully created!" and will be transferred to the user page. If the user tries to submit an empty form, the system will notify the user with an error message specifying that the fields should be filled in. If the user attempts to register with credentials that already exist in the system or uses an invalid length or format for the username, email, or password, the website will notify the user with an error message containing the corresponding information. This page also contains a back button that will transfer the user to the main page.



The wireframe shows a registration page for "Bookish Corner". At the top left is the logo, which consists of an open book icon followed by the text "Bookish Corner". At the top right is a "Back" button. In the center, the heading "Create your account" is displayed. Below the heading are three input fields: "Username", "Email", and "Password". At the bottom center is a "Create account" button.

Bookish Corner

Back

Create your account

Username

Email

Password

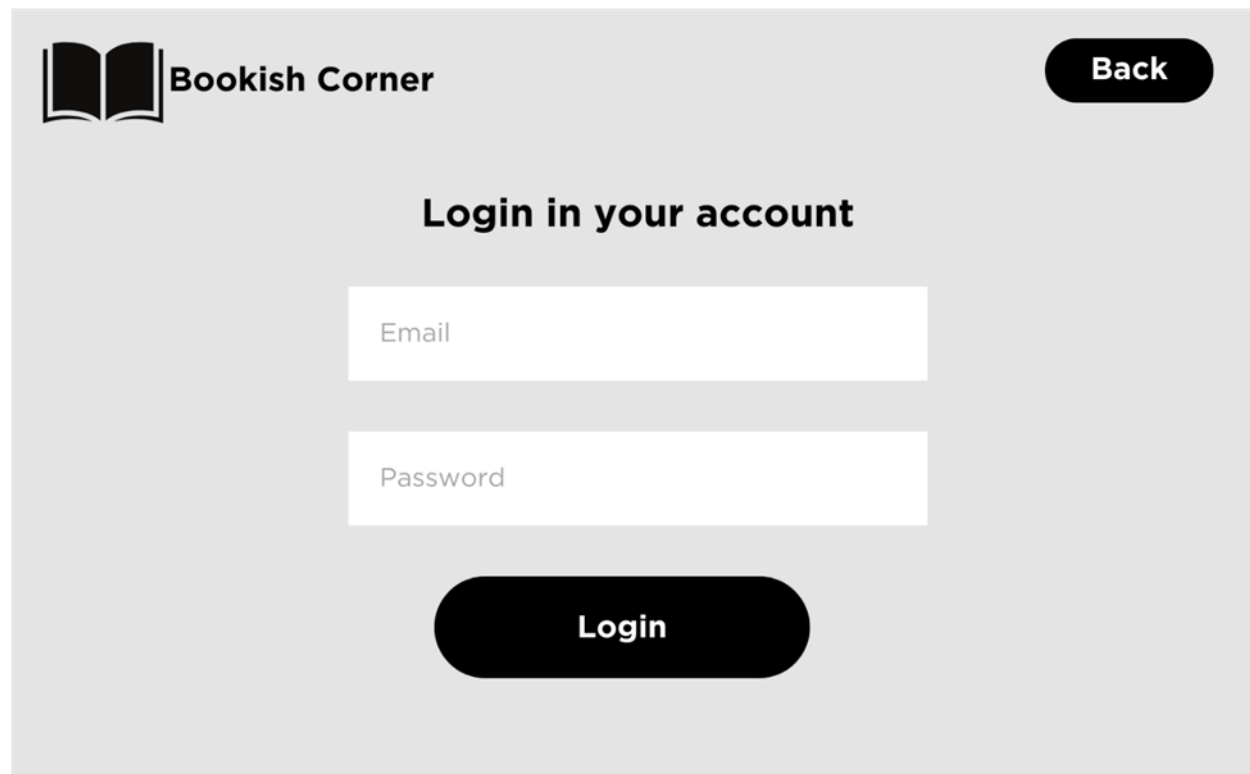
Create account

The wireframe shows a user creation success message at the top. On the left is the 'Bookish Corner' logo, consisting of an open book icon and the text 'Bookish Corner'. To the right of the logo is a grey rectangular box containing the text 'User created successfully!'. Below this text is a blue rounded rectangle with the text 'OK'. Further to the right is a black rounded rectangle with the text 'Back'. Below the success message box is the heading 'Create your account'. Underneath the heading are three white input fields with grey placeholder text: 'Username', 'Email', and 'Password'. At the bottom of the form is a large black rounded rectangle with the text 'Create account' in white.

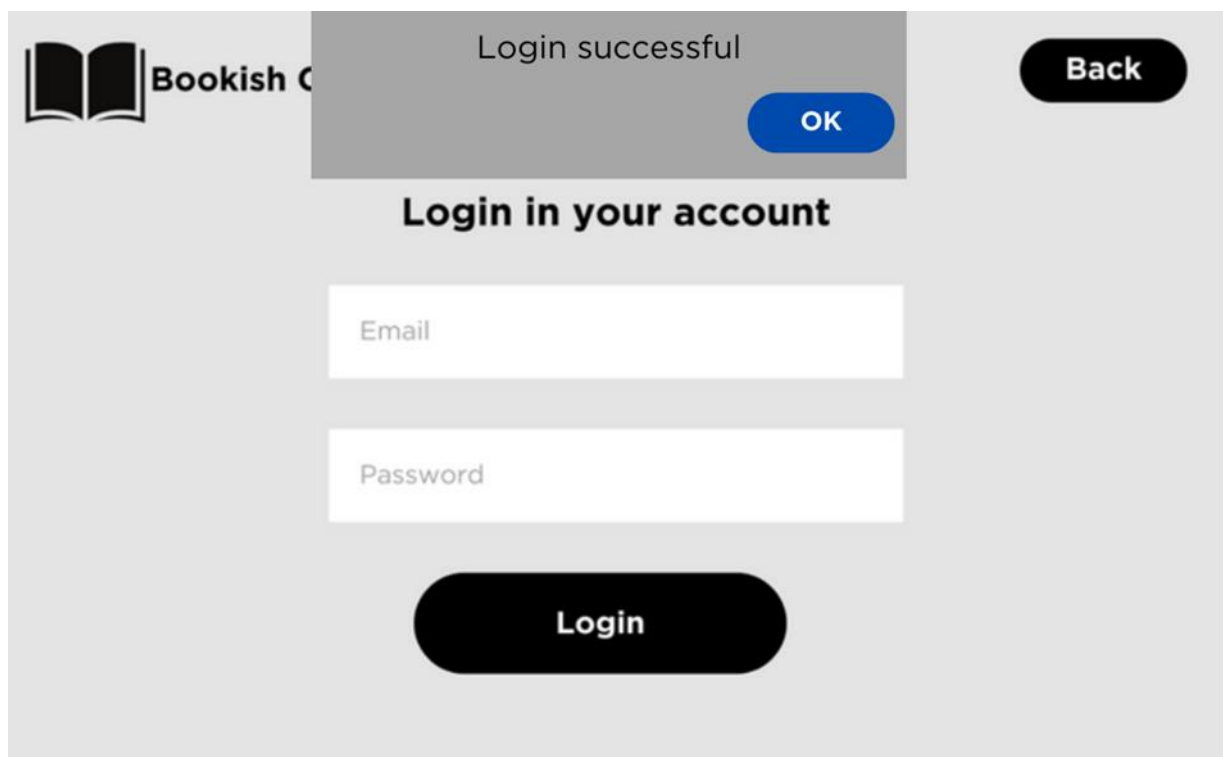
Wireframe 7

Login page

These wireframes represent the login page, where the user can log in to an account if they have previously used the "Bookish Corner" website and already have an account. This page can be accessed through the "Login" link in the footer of each website page. To log in to an account, the user needs to fill in the following information: email address and password. After the user fills in all the information correctly and presses the "Login" button, they will receive the message: "Login successful" and will be transferred to the user page. If the user tries to submit an empty form, the system will notify the user with an error message specifying that the fields should be filled in. If the user attempts to log in with credentials that do not exist in the system, uses an invalid length or format for the email or password, or enters the wrong credentials, the website will notify the user with an error message containing the corresponding information. This page also contains a back button that will transfer the user to the main page.



Wireframe 7 shows a login page for 'Bookish Corner'. The page has a light gray background. In the top left corner, there is a logo consisting of two open books and the text 'Bookish Corner'. In the top right corner, there is a black rounded rectangle button with the text 'Back'. The main heading is 'Login in your account', centered. Below the heading are two white input fields: the first is labeled 'Email' and the second is labeled 'Password'. Below these fields is a large black rounded rectangle button with the text 'Login'.



Wireframe 8 shows the same login page as Wireframe 7, but with a success message overlay. The overlay is a gray rectangle with the text 'Login successful' in the center. To the right of the text is a blue rounded rectangle button with the text 'OK'. In the top right corner, there is a black rounded rectangle button with the text 'Back'. The main heading is 'Login in your account', centered. Below the heading are two white input fields: the first is labeled 'Email' and the second is labeled 'Password'. Below these fields is a large black rounded rectangle button with the text 'Login'.

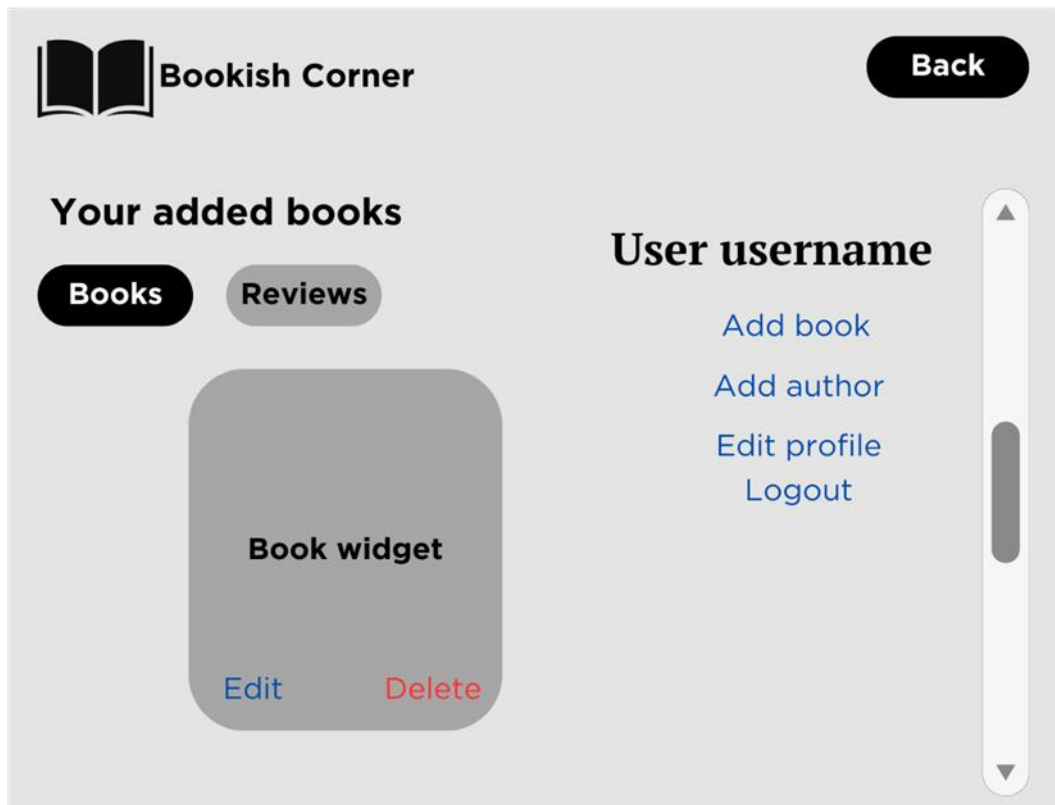
Wireframe 8


User page

These wireframes represent the user page, to which the user is transferred after the registration or login process. After authentication, the user can also access the user page through the "User page" link in the footer of each web page. The user page displays the username of the user, along with a list of links: "Add book" link, which will transfer the user to the add book page, through which they can add a book; "Add author" link, which serves the functionality to add a new author; "Edit profile" link, which will transfer the user to the edit profile page, where they can edit their

information; and finally, the "Logout" link, which will log out the user and transfer them to the home page of the website. To access the user page again, the user will need to log in.

The user page also displays reviews and books added by the user. The user can view all their added books by clicking on the "Books" button and their reviews by clicking on the "Reviews" button. All book widgets contain an edit link, which will transfer the user to the edit book page, where they can alter the information about the book. The widget also contains a delete link, which allows the user to delete a book they have added from the system. The reviews contain edit and delete buttons, which serve the same functionality for the user. Additionally, each review includes a clickable title of the book it refers to, making it easier for the user to access the book and enhancing readability.



Bookish Corner

Back

Your added reviews

Books

Reviews

Book title

Review text to this book

Edit

Delete

User username

Add book

Add author

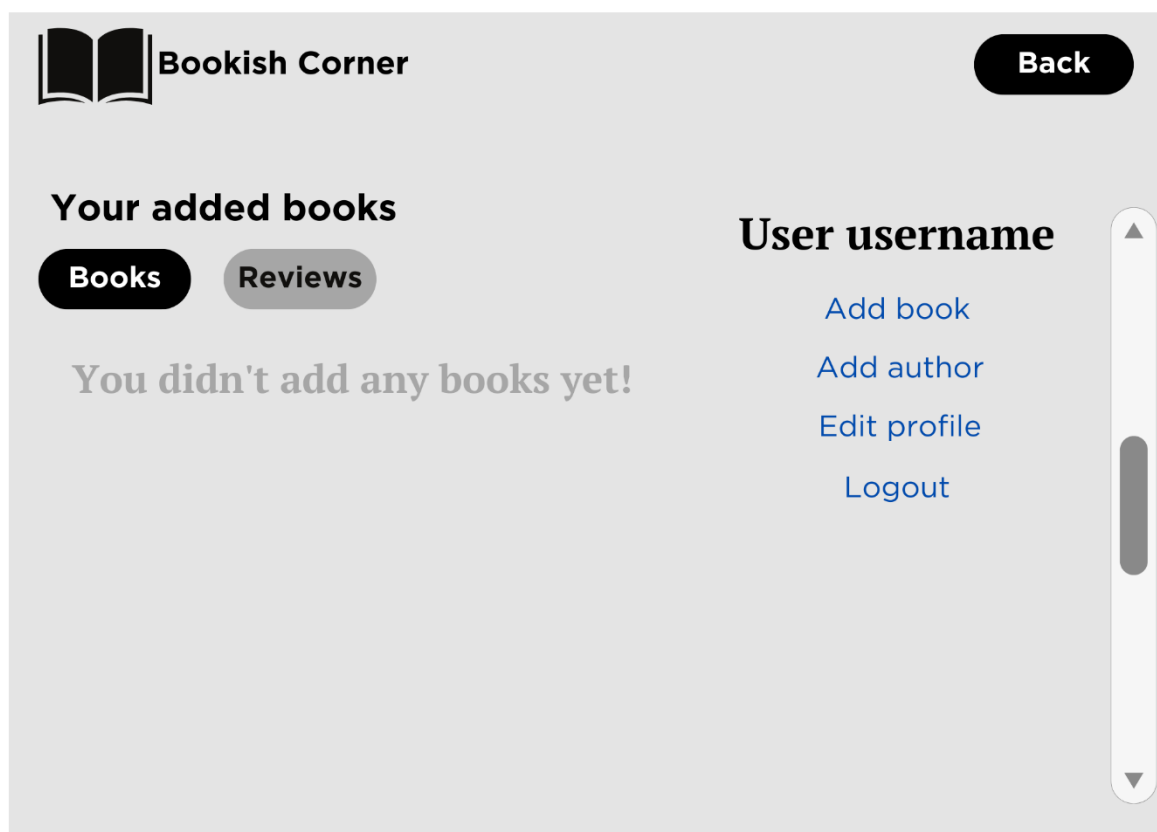
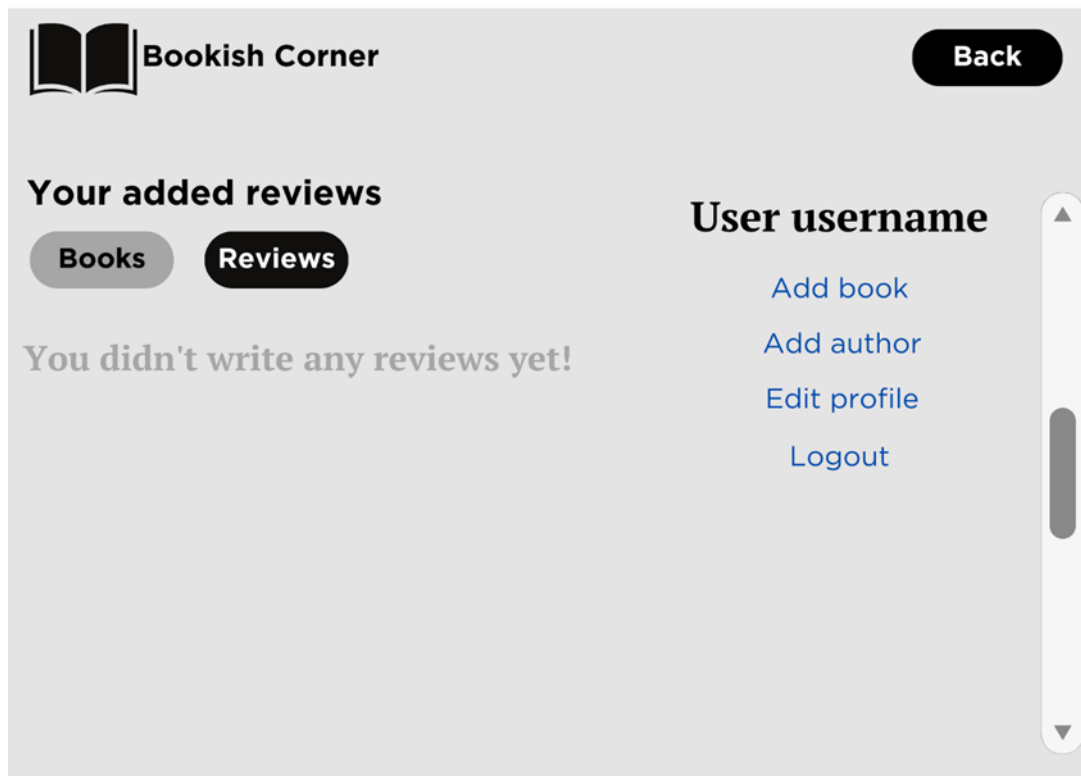
Edit profile

Logout

If the user has just created an account or has not added any books or reviews yet, the user page will display a message indicating that no books or reviews have been added yet.

Note: If the admin logs in with their credentials, they can view all books added to the system in the book section and manipulate them by editing or deleting.

Admin credentials (email: admin@gmail.com, password: admin).




Wireframe 9

Add book page

This wireframe represents the add book page, where the user can add a book. The user needs to fill in the title, select an author from the dropdown that shows all available authors in the system,

provide a description, and upload an image for the book cover, which will be displayed on the right side near the "Select Image" button. If the user fills in all fields and clicks the "Add Book" button, he/she will receive a message saying, "Book added successfully." The book will then be added to the system and can be accessed through the search or the author's books page. The user will be transferred to the user page, and the newly added book will be displayed in the book section of the user page. If the user misses any fields, the website will display a corresponding error message.

This page also contains links such as "Go to Profile," which returns the user to their profile page, and "Logout," which functions as previously specified. The back button will transfer the user to the home page.

 **Bookish Corner**

Back

Add book

Title


Author 1

Author 1

Author 2

Write description

Select image




Add book

User username

Go to profile

Logout

Bookish

Book added successfully!

OK

Back

Add book

Title


Author 1

Author 1

Author 2

Write description

Select image



Add book

User username

Go to profile

Logout

Wireframe 10

Add author page

The add author page functions similarly to the add book page. However, when adding an author, the user needs to fill in the first name, last name, and upload an image for the author, which will be displayed on the right side near the "Select Image" button. If the user completes all fields and

clicks the "Add Author" button, they will receive a message saying, "Author added successfully." If any fields are missing, the page will display a corresponding error message. The links and back button on this page operate the same way as on the add book page, providing navigation to the user's profile and the home page, respectively.

The wireframe shows a page titled "Bookish Corner" with a book icon. A "Back" button is in the top right. The main content area is divided into two sections. The left section, titled "Add author", contains two text input fields labeled "Firstname" and "Lastname", a "Select image" button next to a placeholder image icon, and a large black "Add author" button at the bottom. The right section, titled "User username", contains two blue links: "Go to profile" and "Logout". A vertical scrollbar is on the far right.

Wireframe 11

Edit book page

This wireframe represents the page for editing a book, which can be accessed by the user by clicking the "Edit" link on the book widget in the book section of the user page. All book properties are pre-filled with the related information. The user can alter the title, description, image, or author and then click the "Save Changes" button. The user will receive a notification that says, "Book updated successfully!" and will then be transferred back to the user page, where the book will be displayed with the updated information. If the user tries to save the book with any empty fields, the website will display a corresponding error message and will not update the book. The links and back button on this page operate the same way as on the add book/add author page, providing navigation to the user's profile and the home page, respectively.



Edit book

Title

Selected author



Author 1

Author 2

Description text

Select image

Book
image

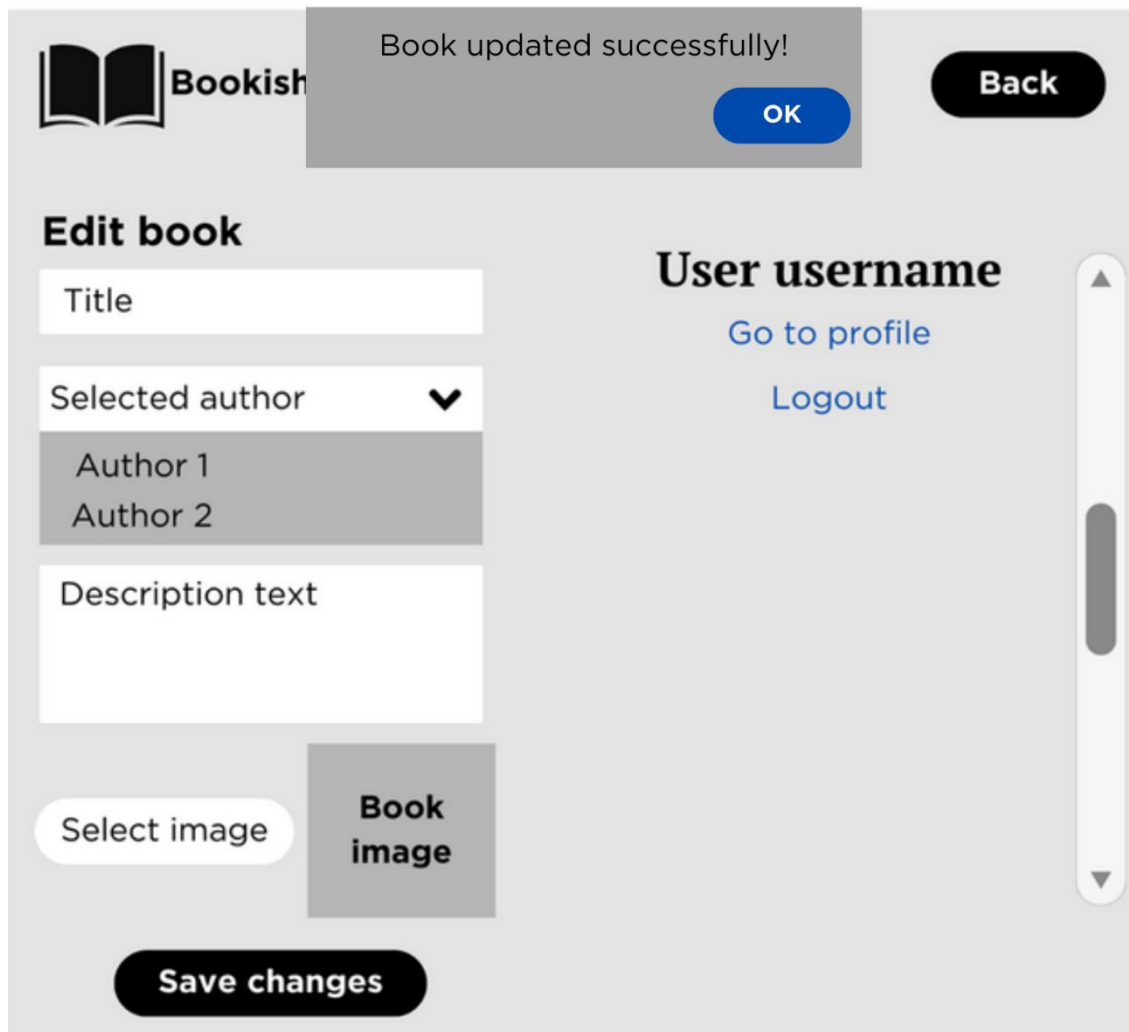
Save changes

User username

[Go to profile](#)

[Logout](#)






Wireframe 12

Edit profile page

This wireframe represents the page for editing a user's account, which can be accessed by clicking the "Edit Profile" link on the user page. All user information fields are pre-filled with the related information. The user can alter their username, email, or password and then click the "Save Changes" button. The user will receive a notification that says, "Profile updated successfully!" and will then be transferred back to the user page, where the updated username will be displayed if it was changed. Other information will be updated in the system and can be visible in the edit profile page if the user clicks on it again. If the user tries to save the profile with any empty fields, the website will display a corresponding error message and will not update the profile. The links and back button on this page operate the same way as on the add book/add author page, providing navigation to the user's profile and the home page, respectively.

Bookish Corner

Back

Edit your account

User username

User email


User password

Save changes

User username

[Go to profile](#)

[Logout](#)

Bookish Corner

Profile updated successfully!

Back

Edit your account

User username

User email

User password

Save changes

User username

[Go to profile](#)

[Logout](#)


Wireframe 13

Review editing process

This wireframe illustrates the process of editing a review in the review section of the user page. To edit a review, the user selects it from the list of their added reviews and clicks the "Edit" button. The review text then becomes editable, allowing the user to make the desired changes. After making the changes, the user clicks "Save," and a message confirms that the review was

successfully updated. The updated review text will be displayed both on the book page and in the review section of the user page.

If the user tries to save a review with empty text, the website will notify them with an appropriate error message and will not allow the action.

 **Bookish Corner**

Back

Your added reviews

Books **Reviews**

Book title

Edited review text to this book

Save **Delete**


User username

[Add book](#)

[Add author](#)

[Edit profile](#)

[Logout](#)

 **Bookish Corner**

Back

Your added reviews

Books **Reviews**

Book title

Edited review text to this book

Save **Delete**

User username

[Add book](#)

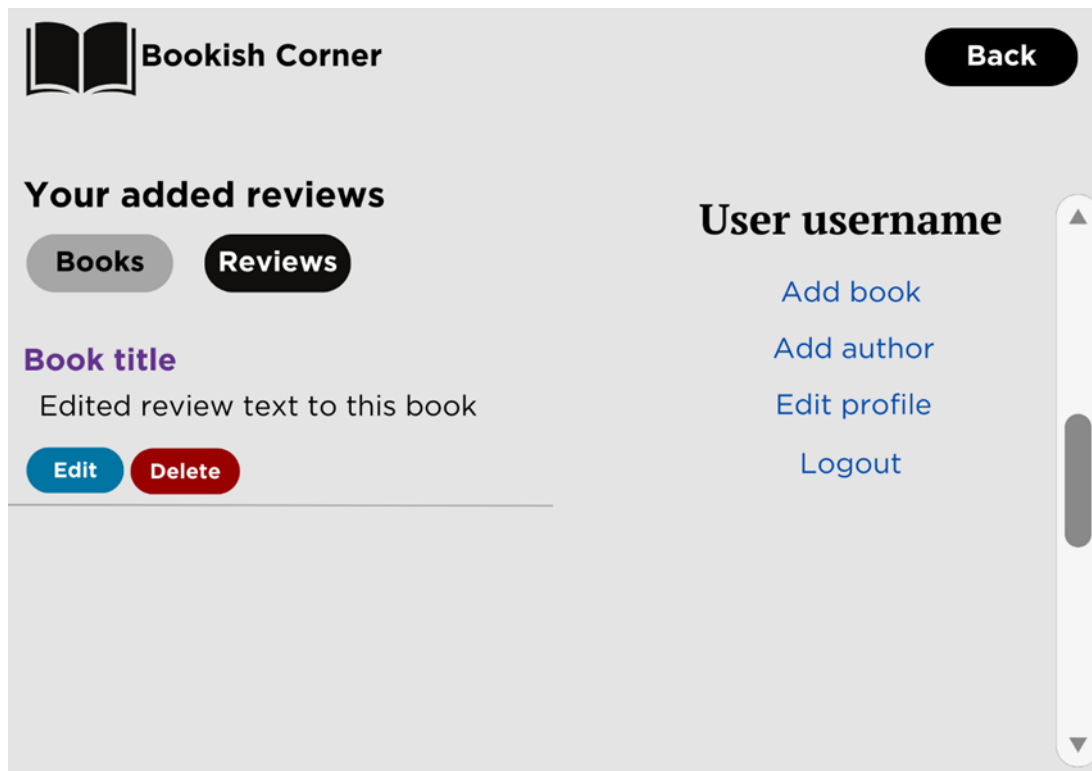
[Add author](#)

[Edit profile](#)

[Logout](#)

Review updated successfully!

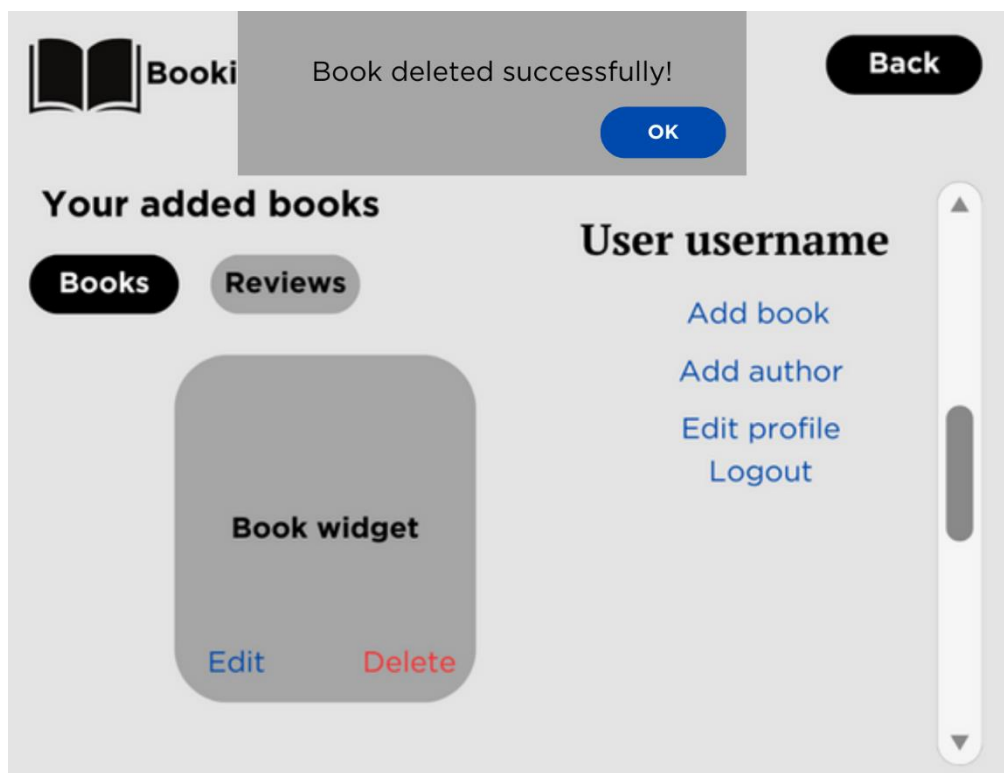
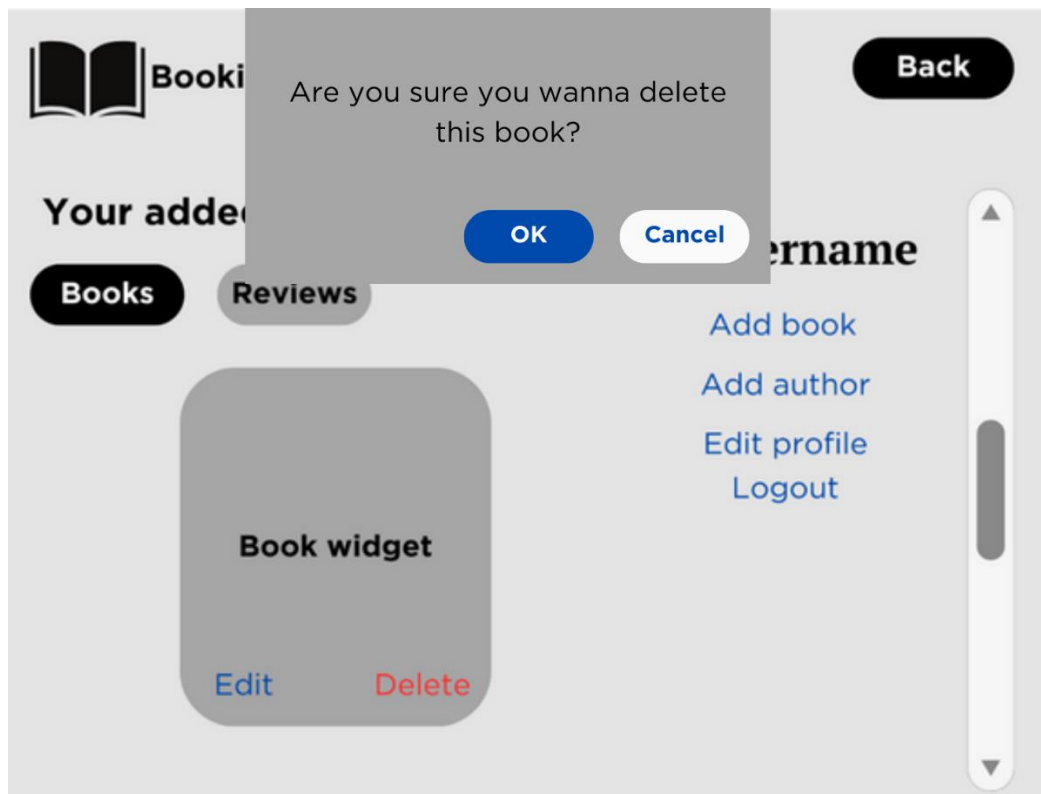
OK



Wireframe 14

Book/review deleting

This wireframe illustrates the process of deleting a review or a book in the reviews/books section of the user page. If a user wants to delete a book, they select the desired book and click the delete link on the book widget. The website will then display a confirmation window. If the user clicks the OK button, a new message will be shown stating that the book was deleted successfully. The book will be permanently removed from the system and will no longer be displayed on the user page, the author's book page, or accessible via search. The same functionality applies to reviews. Users select the review they want to delete from the review section, click the delete button, and the website will show a confirmation window. If the user clicks OK, the website will display a success message, and the review will be permanently deleted from the system.





Bookish

Are you sure you wanna delete this review?

OK

Cancel

Back

Your added re

Books

Reviews

Book title

Review text to this book

Edit

Delete

User username

Add book

Add author

Edit profile

Logout



Bookish

Review deleted successfully!

Back

Your added

Books

Reviews

Book title

Review text to this book

Edit

Delete

OK

username

Add book

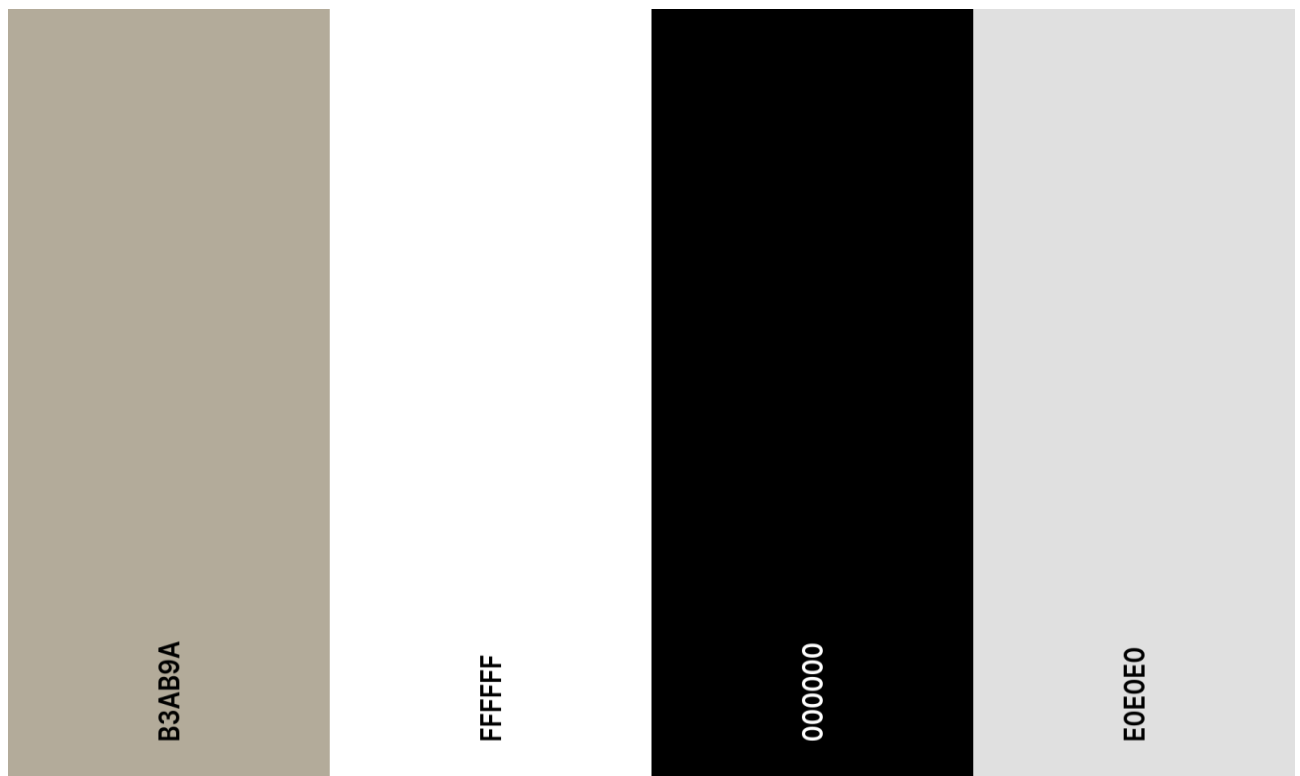
Add author

Edit profile

Logout

Justification of design choices

The overall color palette for the website



Explanation of why these are the primary colors used for Bookish Corner:

B3AB9A (Beige) is used as an accent color on the home page. This color is chosen because it is not overly bright, which helps prevent irritation for users. Beige creates a cozy and warm atmosphere, aligning with the main priority of the literature exploration website, which is to provide a comfortable and inviting environment for readers.

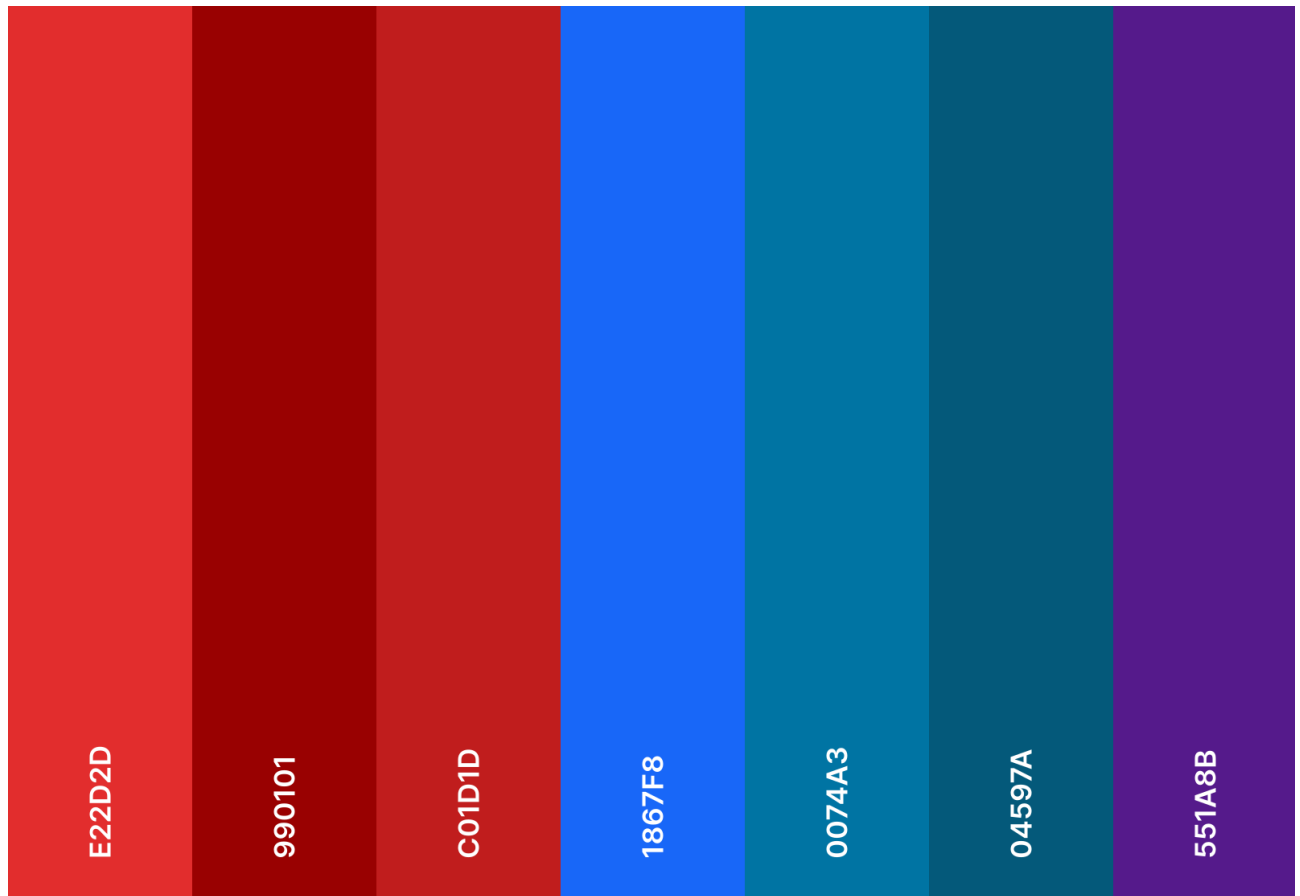
FFFFFF (White) is used as the primary background color. The main benefit of this colour is that it is clean and neutral, providing a clear backdrop that makes text, buttons, and images stand out. It ensures excellent readability, which is crucial for a literature-focused platform where users will be reading a lot of text.

000000 (Black) is used for text and buttons. In tandem with white, black provides the highest contrast, ensuring that text is easy to read, and navigation buttons are noticeable for users. Additionally, black is used to indicate the activation status of buttons for search and sections on the user page, which enhances the overall intuitive understanding of website functionality for users.

E0E0E0 (Light Grey) is primarily used for secondary backgrounds, borders, empty state texts (such as when a book does not contain any reviews), and subtle highlights. This color adds depth and outlines without overwhelming the user. It enhances the distinction of sections and elements while maintaining a clean layout. Light grey is easy on the eyes, reducing visual fatigue during long use of the website.

Finally, the use of a simple and clean color scheme keeps the user's focus on the content – the books, authors, and reviews. This aligns with the website's purpose of promoting literature exploration and reader engagement.

Color palette for edit/delete buttons/links and general links



These colors were chosen for buttons and links to effectively capture user attention and clearly distinguish interactions, which helps improve navigation and usability, making the website more intuitive. Red shades are used for critical actions like deletions, while blues and violet are used for primary and secondary actions such as editing or indicating that text is a clickable link. Additionally, the use of various shades of red and blue for button hover effects makes interactions smooth and predictable, maintaining consistency in color choice.

Justification for adding and editing on the Bookish Corner website

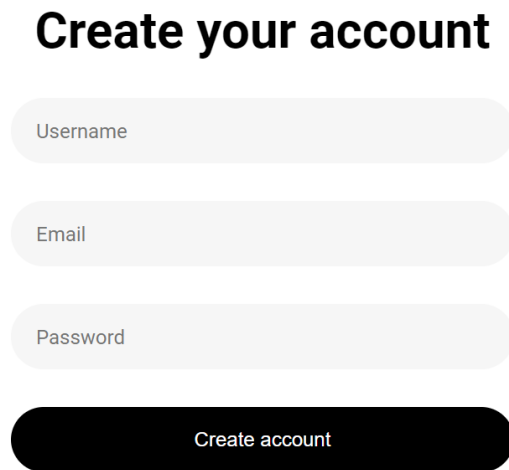
All forms have the same style of text fields, buttons, and image uploading.

A light grey background is used to differentiate the text inputs from the page background. They have rounded corners to enhance usability. The custom file input for selecting images is styled to match the form's aesthetic with a button and a preview section to give immediate feedback to the user. The use of text area for descriptions is designed to auto-grow, ensuring that the user has

enough space to input detailed information without being constrained by the form's initial size. The select dropdown for authors is styled to harmonize with the other input fields, ensuring a consistent visual. The primary action buttons, such as "Add Book," "Save Changes," and "Add Author," are styled in black with white text, providing a high contrast to be easily noticeable by the user. Additionally, they change the color on hover to provide interactivity.

The use of the same style for all forms ensures consistency across all website pages, which positively affects the overall user experience.

Example of form from actual website:



The image shows a 'Create your account' form. It has a title 'Create your account' in bold black text. Below the title are three input fields: 'Username', 'Email', and 'Password'. Each field is a light gray rounded rectangle with its label inside. Below these fields is a black rounded rectangle button with the text 'Create account' in white.

Justification for book/author cards on the Bookish Corner website

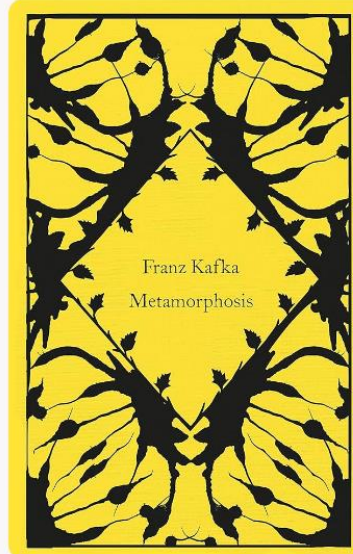
The design elements of the cards, including border radius, padding, and font size, are consistent between the book and author cards, increasing their similarity. This integration allows users to easily identify and navigate between different types of content presented on the website. The structure of both cards emphasizes key elements like titles, descriptions, and images, enabling users to scan and understand the provided information easily. Each card contains functional elements as links: the book card has a 'View more' link to view all information about the book, while the author card has a 'View Books' link to view all books related to the author. This similarity in structure maintains the overall consistency of elements on the website, which positively influences the user experience and provides responsiveness for both types of cards.

Example of book/author card from actual website:



Joanne Rowling

[View books](#)



Metamorphosis

[See more](#)

Bookish Corner web application does not contain any specific animations that need to be described in this specification.

