

# **Book Management System**

## **User Guide**

## Table of Contents

1.	User Roles.....	3
2.	Login.....	3
3.	Register a new user .....	4
4.	Main Navigation Menu .....	5
5.	Books List (Main page) .....	6
5.1	Admin View .....	6
5.2	User View .....	6
6.	Book Status Indicators.....	7
7.	Action Buttons (per book) .....	8
8.	Add New Book (Admin Only) .....	9
9.	Edit Book (Admin Only) .....	10
10.	Delete Book (Admin Only) .....	11
11.	Restore Book (Admin Only).....	12
12.	Overdue Books .....	13
13.	Logout.....	13

## 1. User Roles

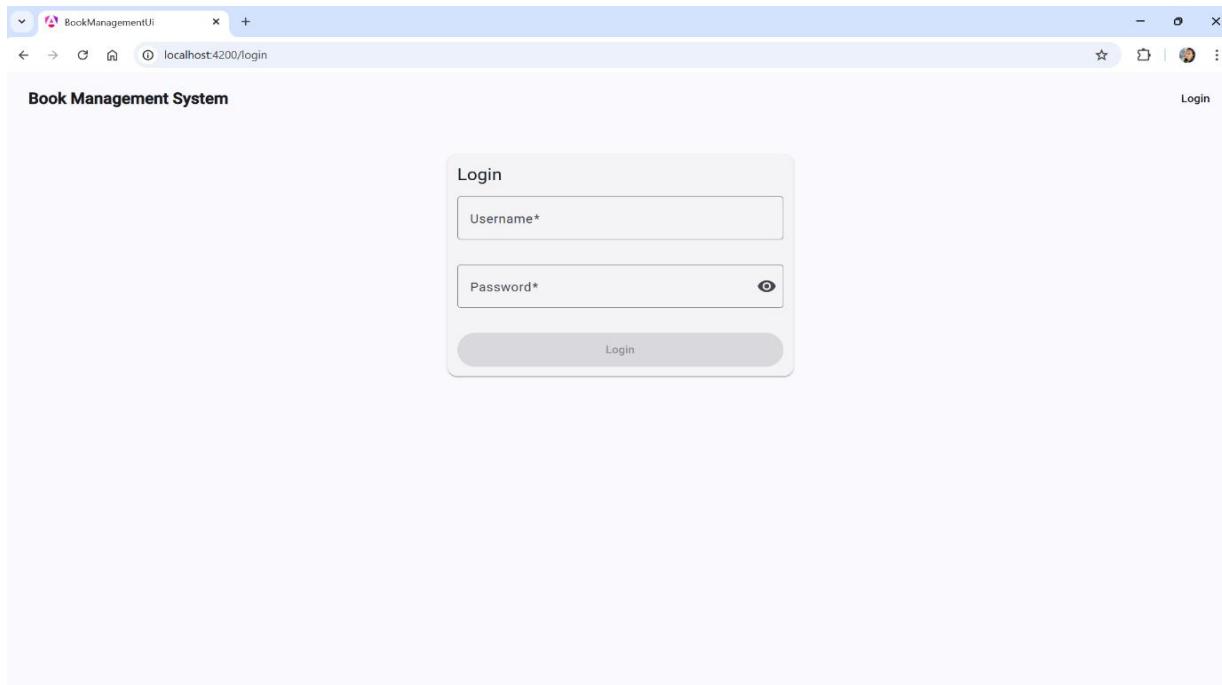
- **Admin**

- Admin users can:
  - View all books
  - Search and filter books
  - Add new books
  - Edit book details
  - Delete books
  - Restore deleted books
  - Borrow and return books
  - View overdue books
  - Register new users

- **User**

- Regular users can
  - View books
  - Search and filter
  - View book details

## 2. Login



- **Steps:**

1. Open the system.
2. Enter Username.
3. Enter Password.
4. Click Login.

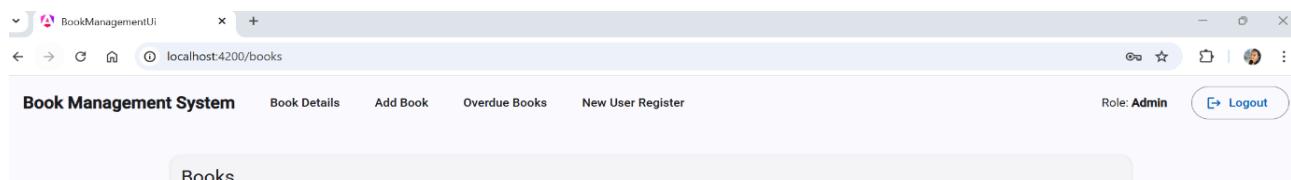
- **After login:**
  - Login user role appears at the top-right (Admin/User).
  - Navigation menu becomes available.

### 3. Register a new user

The screenshot shows a web browser window for the 'BookManagementUi' application. The URL in the address bar is 'localhost:4200/register'. The page header includes the 'Book Management System' logo and navigation links for 'Book Details', 'Add Book', 'Overdue Books', and 'New User Register'. On the right, it shows the user role 'Role: Admin' and a 'Logout' button. The main content area is titled 'Register' and contains three input fields: 'Username\*' (empty), 'Password\*' (empty), and 'Role\*' (dropdown menu set to 'User'). Below these is a large grey 'Register' button.

- **Steps**
  1. Enter Username
  2. Enter Password
  3. Select Role (User/Admin)
  4. Click Register
- **After registering:**
  - login using the same credentials.

## 4. Main Navigation Menu



- **Top menu options:**

Menu	Description
Book Details	Opens main books list
Add Book	Add new book (Admin only)
Overdue Books	View overdue borrowed books (Admin only)
New User Register	Create new user (Admin only)
Logout	Exit the system

## 5. Books List (Main page)

- This is the main screen.

### 5.1 Admin View

The screenshot shows the Book Management System interface for an Admin user. The top navigation bar includes links for Book Details, Add Book, Overdue Books, and New User Register. The top right corner shows the role "Role: Admin" and a "Logout" button. The main content area is titled "Books" and contains a search bar and filters for "Search", "Genre (exact)", "Year From", "Year To", and "Min Price". Below these are dropdowns for "Max Price" (set to 5), "Page Size" (set to 5), "Availability", and "Deleted Status", along with "Search" and "Clear" buttons. A table lists five books with columns for Title, Author, Genre, Year, ISBN, Price, Availability, Status, and Actions (containing icons for details, edit, and delete). At the bottom, there are "Prev" and "Next" navigation buttons, and a message "Page 1 of 2 (7 total)".

Title	Author	Genre	Year	ISBN	Price	Availability	Status	Actions
ASP.NET Core in Action	Andrew Lock	.NET	2021	9781617298305	£49.99	Available	Active	
C# in Depth	Jon Skeet	C#	2019	9781617294536	£61.00	Available	Active	
Clean Code	Robert C. Martin	Programming	2008	9780132350884	£40.00	Available	Active	
Effective C#	Bill Wagner	C#	2017	9780135159941	£45.00	Available	Active	
Head First Design Patterns	Eric Freeman	Software Engineering	2020	9781492078005	£44.99	Available	Active	

### 5.2 User View

The screenshot shows the Book Management System interface for a User user. The top navigation bar includes links for Book Details, Add Book, Overdue Books, and New User Register. The top right corner shows the role "Role: User" and a "Logout" button. The main content area is titled "Books" and contains a search bar and filters for "Search", "Genre (exact)", "Year From", "Year To", and "Min Price". Below these are dropdowns for "Max Price" (set to 5), "Page Size" (set to 5), "Availability", and "Deleted Status", along with "Search" and "Clear" buttons. A table lists five books with columns for Title, Author, Genre, Year, ISBN, Price, Availability, and Actions (containing an "i" icon for details). At the bottom, there are "Prev" and "Next" navigation buttons, and a message "Page 1 of 2 (7 total)".

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## Search and Filter Options

- Filter books using:
  - Search (keyword)
  - Genre (exact)
  - Year From / Year To
  - Min Price / Max Price
  - Page Size
  - Availability
  - Deleted Status (Admin only)
- Buttons
  - Search → Apply filters
  - Clear → Reset filters

## Pagination

- At the bottom:
  - Shows current page and total books
  - Use Prev or Next

## 6. Book Status Indicators

Availability	Meaning
Available (green)	Book can be borrowed
Unavailable (red)	Book is currently borrowed

- ❖ Example:
- “Unavailable (user\_name1)” means the book is borrowed by user user\_name1.

Title	Author	Genre	Year	ISBN	Price	Availability	Status	Actions
ASP.NET Core in Action	Andrew Lock	.NET	2021	9781617298305	£49.99	Unavailable (chamodh)	Active	 

status	Meaning
Active	Book is available in system
Inactive	Book is deleted

## 7. Action Buttons (per book)

Title	Author	Genre	Year	ISBN	Price	Availability	Status	Actions
ASP.NET Core in Action	Andrew Lock	.NET	2021	9781617298305	£49.99	Available	Active	

Info      Borrow      Edit      Delete

- a) Info Button
  - Opens book details page.
- b) Borrow Button (Admin only)
  - Available when:
    - Book is Available

### Steps:

1. Click Borrow icon.
2. Select Borrowed by User.
3. Choose Due Date.
4. Click Borrow.

Book becomes:

- Unavailable
- Shows borrower name

- c) Return Button (Admin only)

Title	Author	Genre	Year	ISBN	Price	Availability	Status	Actions
ASP.NET Core in Action	Andrew Lock	.NET	2021	9781617298305	£49.99	Unavailable (chamodh)	Active	

Return

- Available when:
  - Book is currently borrowed

### Steps:

1. Click Return icon.
2. Confirm return.
3. Book becomes available again.

- d) Restore Button (Admin only)

Title	Author	Genre	Year	ISBN	Price	Availability	Status	Actions
ASP.NET Core in Action	Andrew Lock	.NET	2021	9781617298305	£49.99	Unavailable	Inactive	

Restore

- Available when:
  - Book status = Inactive

## 8. Add New Book (Admin Only)

The screenshot shows a web browser window titled 'BookManagementUi' with the URL 'localhost:4200/books/new'. The page header includes the 'Book Management System' logo, navigation links for 'Book Details', 'Add Book', 'Overdue Books', and 'New User Register', and a user role indicator 'Role: Admin' with a 'Logout' button. The main content area is a form titled 'Add New Book' with the following fields:

- Title\*
- Author\*
- Genre\*
- Publication Year\*  
2026
- ISBN\*
- Price\*  
0

At the bottom of the form are two buttons: '+ Create' and 'X Cancel'.

### Steps:

1. Click Add Book from menu.
2. Fill in:
  - Title
  - Author
  - Genre
  - Publication Year
  - ISBN
  - Price
- Click Create.

### Special case: Existing deleted book

If ISBN exists but book is deleted:

- System shows message:  
“This ISBN exists but the book is deleted. Please restore it instead.”

Admin must:

- Restore the book instead of creating a duplicate.

Add New Book

This ISBN exists but the book is deleted. Please restore it instead.

Title\* ASP.NET Core in Action

Author\* Andrew Lock

Genre\* .NET

Publication Year\* 2021

ISBN\* 9781617298305

Price\* 49.99

+ Create Cancel

## 9. Edit Book (Admin Only)

Edit Book

Title\* ASP.NET Core in Action

Author\* Andrew Lock

Genre\* .NET

Publication Year\* 2021

ISBN\* 9781617298305

Price\* 49.99

Update Cancel

### Steps:

1. Click Edit.
2. Modify fields.
3. Click Update.

## 10. Delete Book (Admin Only)

The screenshot shows the Book Management System interface. At the top, there are navigation links: Book Details, Add Book, Overdue Books, and New User Register. On the right, it says "Role: Admin" and has a "Logout" button. Below the header is a search bar with fields for "Search", "Genre (exact)", "Year From", "Year To", and "Min Price". There are also filters for "Max Price" (set to 5), "Page Size" (set to 5), "Availability", "Deleted Status", and buttons for "Search" and "Clear". The main area displays a table of books with columns: Title, Author, Genre, Status, and Actions. A modal dialog box titled "Confirm Delete" is overlaid on the page, asking "Are you sure you want to delete this book? This action cannot be undone." It has "Cancel" and "Delete" buttons. The table data is as follows:

Title	Author	Genre	Status	Actions				
ASP.NET Core in Action	Andrew Lock	.NET	Active	<span>Info</span> <span>Cart</span> <span>Edit</span> <span>Delete</span>				
C# in Depth	Jon Skeet	C#	Active	<span>Info</span> <span>Cart</span> <span>Edit</span> <span>Delete</span>				
Clean Code	Robert C. Martin	Programming	2008	9780132350884	£40.00	Available	Active	<span>Info</span> <span>Cart</span> <span>Edit</span> <span>Delete</span>
Effective C#	Bill Wagner	C#	2017	9780135159941	£45.00	Available	Active	<span>Info</span> <span>Cart</span> <span>Edit</span> <span>Delete</span>
Head First Design Patterns	Eric Freeman	Software Engineering	2020	9781492078005	£44.99	Available	Active	<span>Info</span> <span>Cart</span> <span>Edit</span> <span>Delete</span>

At the bottom of the table, there are navigation buttons: "< Prev", "Page 1 of 2 (7 total)", and "> Next".

### Steps:

1. Click Delete icon.
2. Confirm deletion.

### Result:

- Book status becomes Inactive.

## 11. Restore Book (Admin Only)

The screenshot shows a web-based book management system. At the top, there's a navigation bar with links for 'Book Details', 'Add Book', 'Overdue Books', and 'New User Register'. On the right, it says 'Role: Admin' and has a 'Logout' button. Below the navigation is a search bar with fields for 'Search', 'Genre (exact)', 'Year From', 'Year To', and 'Min Price'. There are also filters for 'Max Price' (set to 5), 'Page Size' (set to 5), 'Availability', 'Deleted Status' (set to Inactive), and buttons for 'Search' and 'Clear'. The main area displays a table of books with columns for Title, Author, Genre, Status, and Actions. A modal dialog box titled 'Restore Book' is overlaid on the table, asking 'Do you want to restore "ASP.NET Core in Action"?'. It contains 'Cancel' and 'Restore' buttons. The table data is as follows:

Title	Author	Genre	Status	Actions				
ASP.NET Core in Action	Andrew Lock	.NET	Inactive	<i>info</i> <i>edit</i> <i>trash</i>				
C# in Depth	Jon Skeet	C#	Active	<i>info</i> <i>cart</i> <i>edit</i> <i>trash</i>				
Clean Code	Robert C. Martin	Programming	2008	9780132350884	£40.00	Available	Active	<i>info</i> <i>cart</i> <i>edit</i> <i>trash</i>
Effective C#	Bill Wagner	C#	2017	9780135159941	£45.00	Available	Active	<i>info</i> <i>cart</i> <i>edit</i> <i>trash</i>
Head First Design Patterns	Eric Freeman	Software Engineering	2020	9781492078005	£44.99	Available	Active	<i>info</i> <i>cart</i> <i>edit</i> <i>trash</i>

At the bottom of the table, there are navigation buttons for 'Prev', 'Page 1 of 2 (7 total)', and 'Next'.

### Steps:

1. Set filter: Deleted Status = Inactive.
2. Click Restore icon.
3. Confirm restore.

### Book becomes:

- Active
- Available (if not borrowed)

## 12. Overdue Books

The screenshot shows a web application interface for a Book Management System. At the top, there is a navigation bar with links for 'Book Details', 'Add Book', 'Overdue Books', and 'New User Register'. On the far right of the navigation bar, it says 'Role: Admin' and has a 'Logout' button. Below the navigation bar, the main content area is titled 'Overdue Books'. It features a search bar with a 'Search' button and a 'Clear' button. A table header row includes columns for 'Book', 'User', 'Due', 'Days Overdue', and 'Actions'. Below the table header, there are navigation buttons for 'Prev' and 'Next', and a message indicating 'Page 1 of 0 (0 total)'. The overall layout is clean and modern, typical of a web-based administrative tool.

### Shows:

- Books with due date passed
- Not yet returned

### Used by:

- Admin to monitor overdue items

## 13. Logout

- Click **Logout** at top-right to exit.

### ❖ Note:

- Use filters to quickly find books.
- Deleted books are not permanently removed; they can be restored.
- Borrowed books must be returned before user can be borrowed again.