Workflow of Rento-book app

1. Admin Login Workflow:

  - The admin accesses the Admin Panel i.e librarian.

  - The system prompts for authentication with ID and password.

  - If the credentials are valid, the admin logs in.

  - If the credentials are invalid, the system displays an error message.

  - The admin has the option to change the password from the Admin Panel.

2. Dashboard Workflow:

  - Upon successful login, the system displays the Dashboard.

  - The Dashboard shows the name of the logged-in admin, current date, and time.

  - The admin can access various functionalities from the Dashboard like total fine, reviews and various reports.

3. Add Books Workflow:

  - From the Dashboard, the admin selects the "Add Books" option.

  - The system prompts the admin to enter details of the book to be added.

  - After entering the details, the admin confirms to add the book.

  - The system adds the book to the library store.

4. Issue Books Workflow:

  - The admin selects the "Issue Books" option from the Dashboard.

  - The system prompts the admin to enter student details and book information.

  - The system checks if the student has not exceeded the maximum limit of issued books.

  - If the conditions are met, the system issues the book to the student and records the issue date.

  - If the conditions are not met, the system displays an error message and shows fine for that student.

5. Edit Books Workflow:

  - The admin selects the "Edit Books" option from the Dashboard.

  - The system displays a list of books for editing.

  - The admin selects a book to edit and modifies its details.

  - The system updates the book details accordingly.

6. Return Books Workflow:

 - The admin chooses the "Return Books" option from the Dashboard.

 - The system prompts the admin to enter the book details being returned.

 - The system checks for any overdue fines and calculates them if applicable.

 - The system updates the book status as returned and records the return date.

7. Delete Books Workflow:

 - The admin selects the "Delete Books" option from the Dashboard.

 - The system displays a list of books for deletion.

 - The admin selects the book(s) to delete.

 - The system confirms the deletion action and removes the selected books from the library store.

8. Search Books Workflow:

 - The admin selects the "Search Books" option from the Dashboard.

 - The system provides various search criteria such as book title, author, genre, etc.

 - The system displays the search results matching the query.

9. Show Books Workflow:

 - The admin selects the "Show Books" option from the Dashboard.

 - The system retrieves and displays the entire list of books in the library store.

10. Add/Edit Events Workflow:

 - The admin selects the "Manage Events" option from the Dashboard.

 - The system displays options to either add a new event or edit existing events.

 For adding a new event:

 - The admin provides details such as event name, date, description, and associated writer or publisher.

 - The system confirms the addition of the event and updates the database.

For editing an existing event:

 - The admin selects the event to edit from the list of events.

 - The system displays the event details for modification.

 - The admin updates the necessary details.

 - The system confirms the changes and updates the event in the database.

11. Delete Events Workflow:
- The admin selects the "Manage Events" option from the Dashboard.
- The system displays a list of existing events.
- The admin selects the event(s) to delete.
- The system confirms the deletion action and removes the selected event(s) from the database.
- The system displays options to either add a new event or edit existing events.

12. Delete Events Workflow:
- The admin selects the "Manage Events" option from the Dashboard.
- The system displays a list of existing events.
- The admin selects the event(s) to delete.
- The system confirms the deletion action and removes the selected event(s) from the database.

13. View Events Workflow:
- The admin selects the "Manage Events" option from the Dashboard.
- The system displays a list of existing events.
- The admin can view details of each event including name, date, description, and associated writer or publisher.

14. User Registration Workflow:
- The user accesses the system and selects the "Register" option.
- The system prompts the user to fill in the registration form with details like name, email, and password.
- After filling the form, the user submits the registration request.
- The system validates the provided information and creates a new user account.
- Upon successful registration, the user can proceed with other functionalities.

15. Search Book Workflow:
- The user logs into the system.
- The user selects the "Search Book" option.
- The system provides various search criteria such as book title, author, genre, etc.
- The user enters the search query.
- The system displays the search results matching the query.

16. Checkout Book Workflow:
- The user selects a book from the search results.
- The system displays the details of the selected book.

- The user chooses the "Checkout" option.

- The system validates if the book is available for checkout.

- If available, the system records the checkout transaction for the user and updates the book's status.

- If not available, the system informs the user about the unavailability.

17. Renew Book Workflow:

- The user logs into the system.

- The user selects the "Renew Book" option.

- The system prompts the user to enter the book details.

- The system validates if the book is eligible for renewal.

- If eligible, the system extends the due date for the book.

- If not eligible (e.g., the book is already overdue), the system informs the user.

18. Return Book Workflow:

- The user logs into the system.

- The user selects the "Return Book" option.

- The system prompts the user to enter the book details being returned.

- The system updates the book status as returned and calculates any applicable fines.

- If fines are due, the system prompts the user to pay them.

- After returning the book and paying fines (if any), the transaction is completed.

19. Pay Fine Workflow:

- The user logs into the system.

- The user selects the "Pay Fine" option.

- The system displays the details of fines associated with the user's account.

- The user chooses the fine(s) to pay and proceeds with the payment process.

- The system updates the user's fine status after successful payment.

20. Reviews and Feedback Workflow:

- The user selects a book from the search results or their borrowed list.

- The system displays the details of the selected book.

- The user chooses the "Leave Review" or "Provide Feedback" option.

- The system presents a feedback form for the user to fill out.

- After submitting the feedback, the system records it for the respective book.

21. View All Events Workflow:

- The user logs into the system.

- The user selects the "View Events" option.

- The system displays a list of upcoming events.

- The user can view details of each event including name, date, description, and associated writer or publisher.

22. Request Event Workflow:

- The user logs into the system.

- The user selects the "Request Event" option.

- The system presents a form for the user to fill out with event details like name, date, and description.

- After submitting the request, the system reviews and processes it accordingly.

23. Search Event Workflow:

- The user logs into the system.

- The user selects the "Search Event" option.

- The system provides various search criteria such as event name, date, etc.

- The user enters the search query.

- The system displays the search results matching the query.

24. User Log Out Workflow:

- The user selects the "Log out" option from the Dashboard.

- The system logs out the admin, terminating the current session.