

App Functionality

Flutter Mobile App

1. Login.
2. Logout.
3. View books catalog.
4. Search books.
5. Reserve an available book.
6. Register for a library account.
7. View profile.
8. Update profile.
9. Access book borrowing history.
10. Access currently reserved books.
11. Access currently overdue books.
12. Make a payment.
13. View stats on most popular books.
14. View stats on most popular genre.
15. View book.

ASP NET Core Razor Web App

1. View books in the catalog.
2. Add books to the catalog.
3. Update books in the catalog.
4. Delete books in the catalog.
5. Assign (check-out) a book to a member who reserved it.
6. Unassign (check-in) a book from a member who is returning it.
7. Update the availability status of a book.
8. Manage fine payments.
9. View reports on library inventory.
10. View reports on available books.
11. View reports on checked-out (borrowed) books.
12. View reports on overdue books.
13. View reports on fines.
14. View stats on most borrowed books.
15. View stats on popular genre.
16. View stats on member borrowing trends.
17. Login
18. Logout
19. View registered members.
20. View their profile.
21. Update their profile.
22. Delete member account.

23. View librarians.
24. Register librarian account.

ASP NET Core Web API

1. Librarian login.
 2. Librarian logout.
 3. Member login.
 4. Member logout.
 5. Fetch books catalog.
 6. Search for book.
 7. Reserve a book.
 8. Register library account (for member).
 9. Register library account (for librarian).
 10. View profile.
 11. Update profile.
 12. Delete member account.
 13. Delete librarian account.
 14. View book borrowing history.
 15. View currently reserved books.
 16. View currently overdue books.
 17. Make payment.
 18. View most popular books.
 19. View most popular genre.
 20. View book.
 21. Add book to catalog.
 22. Update book.
 23. Delete book.
 24. Assign book to a member (who reserved it).
 25. Unassign book from a member (who returned it).
 26. Update availability status of a book.
 27. Generate reports on library inventory.
 28. Generate reports on available books.
 29. Generate reports on check-out books.
 30. Generate reports on overdue books.
 31. Generate reports on fines.
 32. Generate stats on borrowed books.
 33. Generate stats on overdue books.
 34. Generate stats on member borrowing trends.
 35. View registered members.
 36. View librarians.
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