



LIBRARY MANAGEMENT SYSTEM

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1. Introduction

1.1 PURPOSE

The purpose of this document is to build an online system to manage sales of books for students. This app keeps records of books entered and borrowed out of the book shop.

1.2 DOCUMENT CONVENTIONS

This document uses the following conventions. Android Studio.

1.3 INTENDED AUDIENCE AND READING SUGGESTIONS

This project is a prototype for the book management system and it is restricted within the college premises. This has been implemented under the guidance of online tutors and I. This project is useful for the book management team and as well as to the users.

1.4 PROJECT SCOPE

The purpose of the online booking management system is to ease booking management and to create a convenient and easy-to-use application for students, trying to borrow, use or lend books. The system is based on a relational database with its booking management and reservation functions.

1.5 PRODUCT PERSPECTIVE

This app stores the following information.

- Book details:

It includes the originating booking terminal and destination terminal, along with the stops in between, the number of borrowed books/ available books, between two persons etc.

- Student description:

It includes student id, name, gender, department and phone number. This information may be used for keeping the records of the customer for any emergency or for any other kind of information.

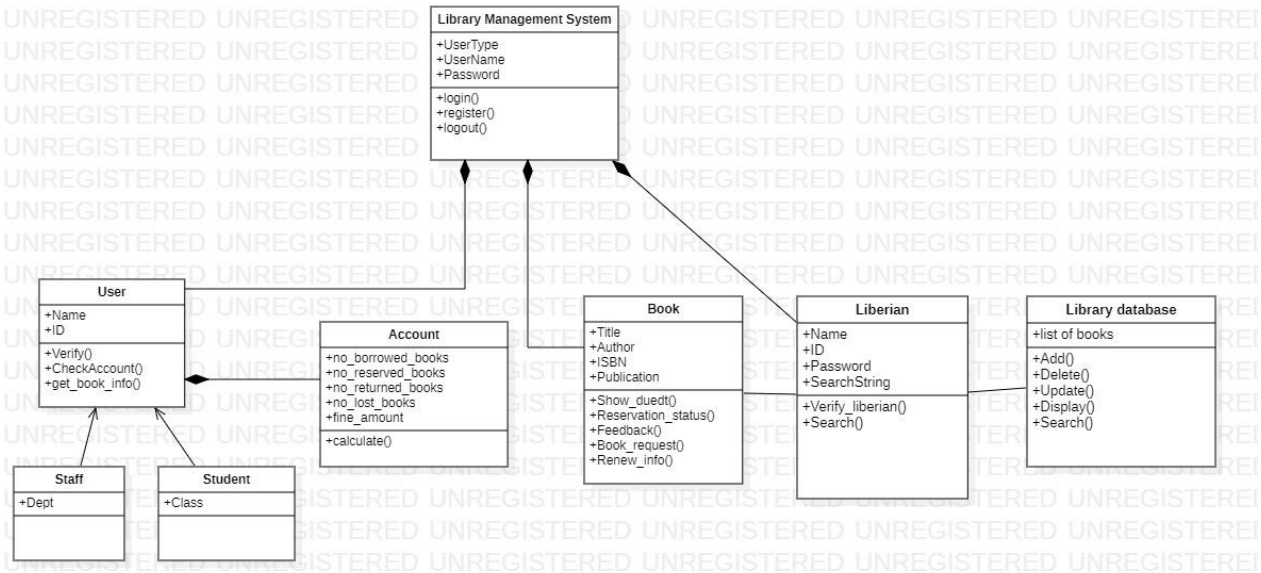
- Reservation description

It includes students details, id number, book number, date of borrowing a book, date of returning.

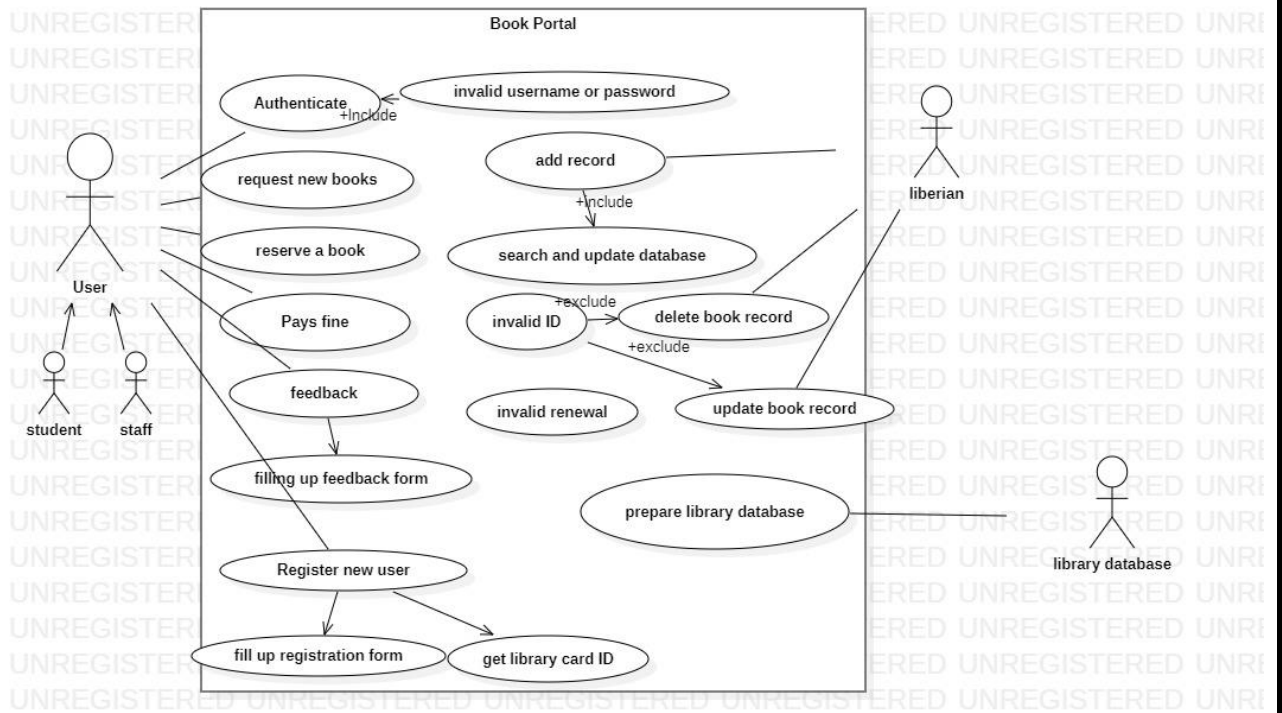
2. **List of classes:**

- Library management system class
- Use class
- Librarian class
- Book class
- Account class
- Staff class
- Student class
- Library database

3. UML Class Diagram



4. Use Case Diagram

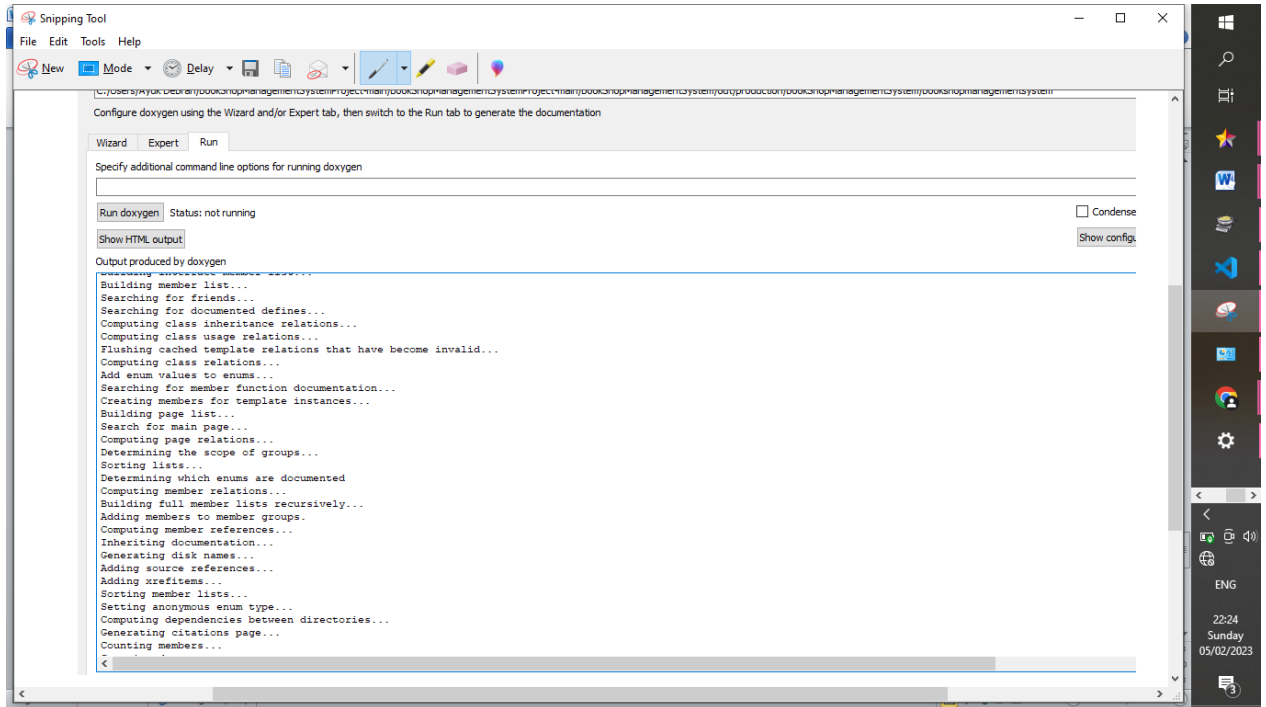


5. Code Listing

```
6. Doxygen version used: 1.9.6
7. Searching for include files...
8. Searching for example files...
9. Searching for images...
10. Searching for dot files...
11. Searching for msc files...
12. Searching for dia files...
13. Searching for files to exclude
14. Searching INPUT for files to process...
15. Searching for files in directory C:/Users/Ayuk
    Debrah/BookShopManagementSystemProject-main/BookShopManagementSystemProject-
    main/bookShopManagementSystem/out/production/bookShopManagementSystem/booksho
    pmanagementsystem
16. warning: No files to be processed, please check your settings, in particular
    INPUT, FILE_PATTERNS, and RECURSIVE
17. Reading and parsing tag files
18. Parsing files
19. Building macro definition list...
20. Building group list...
21. Building directory list...
22. Building namespace list...
23. Building file list...
24. Building class list...
25. Building concept list...
26. Computing nesting relations for classes...
27. Associating documentation with classes...
28. Associating documentation with concepts...
29. Building example list...
30. Searching for enumerations...
31. Searching for documented typedefs...
32. Searching for members imported via using declarations...
33. Searching for included using directives...
34. Searching for documented variables...
35. Building interface member list...
36. Building member list...
37. Searching for friends...
38. Searching for documented defines...
39. Computing class inheritance relations...
40. Computing class usage relations...
41. Flushing cached template relations that have become invalid...
42. Computing class relations...
43. Add enum values to enums...
44. Searching for member function documentation...
45. Creating members for template instances...
46. Building page list...
47. Search for main page...
48. Computing page relations...
49. Determining the scope of groups...
50. Sorting lists...
51. Determining which enums are documented
52. Computing member relations...
53. Building full member lists recursively...
54. Adding members to member groups.
55. Computing member references...
56. Inheriting documentation...
57. Generating disk names...
```

58. Adding source references...
59. Adding xrefitems...
60. Sorting member lists...
61. Setting anonymous enum type...
62. Computing dependencies between directories...
63. Generating citations page...
64. Counting members...
65. Counting data structures...
66. Resolving user defined references...
67. Finding anchors and sections in the documentation...
68. Transferring function references...
69. Combining using relations...
70. Adding members to index pages...
71. Correcting members for VHDL...
72. Computing tooltip texts...
73. Generating style sheet...
74. Generating search indices...
75. Generating example documentation...
76. Generating file sources...
77. Generating file documentation...
78. Generating page documentation...
79. Generating group documentation...
80. Generating class documentation...
81. Generating concept documentation...
82. Generating namespace index...
83. Generating graph info page...
84. Generating directory documentation...
85. Generating index page...
86. Generating page index...
87. Generating module index...
88. Generating namespace index...
89. Generating namespace member index...
90. Generating concept index...
91. Generating annotated compound index...
92. Generating alphabetical compound index...
93. Generating hierarchical class index...
94. Generating member index...
95. Generating file index...
96. Generating file member index...
97. Generating example index...
98. finalizing index lists...
99. writing tag file...
100. Running plantuml with JAVA...
101. type lookup cache used 0/65536 hits=0 misses=0
102. symbol lookup cache used 0/65536 hits=0 misses=0
103. finished...

104. *** Doxygen has finished



6. How run the code

Using the link below u open the link from the drive using your ict email email containing zip file
Them after you open the zip file using an android studio environment.

7. LINK TO ZIP FILE

<https://drive.google.com/file/d/1tipg36E6UOkRY9L-H1M4NhiTVx3sz1uN/view?usp=drivesdk>.