Online Library Management System

Project Write-up

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Introduction:

1.)Purpose:
The purpose of this application are as follows :
- • The software is for automation of library.
- • It provides following facilities to

Librarian (Actor 1) :
- • Can enter details related to a particular book.
- • Can provide membership to members.
- • Can read and write information about any member.
- • Can update, create, delete the record of membership as per requirement and implementation plans.

Member (Actor 2):
- • Can enquire about the availabilty of books.
- • Can issue book(s).
- • Can return book(s) to librarian.

2.)Scope :
The different areas where we can use this application are :
- • Any education institute can make use of it for providing information about author, content of the available books.
- • It can be used in offices and modifications can be easily done according to requirements.

3.)Technology Used :
Front End : JSP, HTML, Java script,CSS.
Back End : MySQL,PhpmyAdmin, Apache Tomcat server.

4.)Assumptions:
- • This application is used to convert the manual application to the online application.
- • Customized data will be used in this application.
- • User does not have right to enter information about books.

5.)Overview :
Project is related to library management which provides reading services to its members.
Any person can become a member of the library by filling a prescribed form.
They can get the book issued, so that they cab take home and return them.

6.)Functionality :
- • Online membership.
- • Keeps the track of issues and submission of books .

7.)WORKING OF PRESENT MANUAL SYSTEM
The staffs of library are involved in the following tasks.
1. Membership process : person have to fill membership form and they are provided with member id.

8.)DRAWBACKS OF PRESENT SYSTEM
Some of the problems being faced in manual system are as follows:
1. Fast report generation is not possible.
2. Tracing a book is difficult.
3. Information about issue/return of the books are not properly maintained.
4. No central database can be created as information is not available in database.
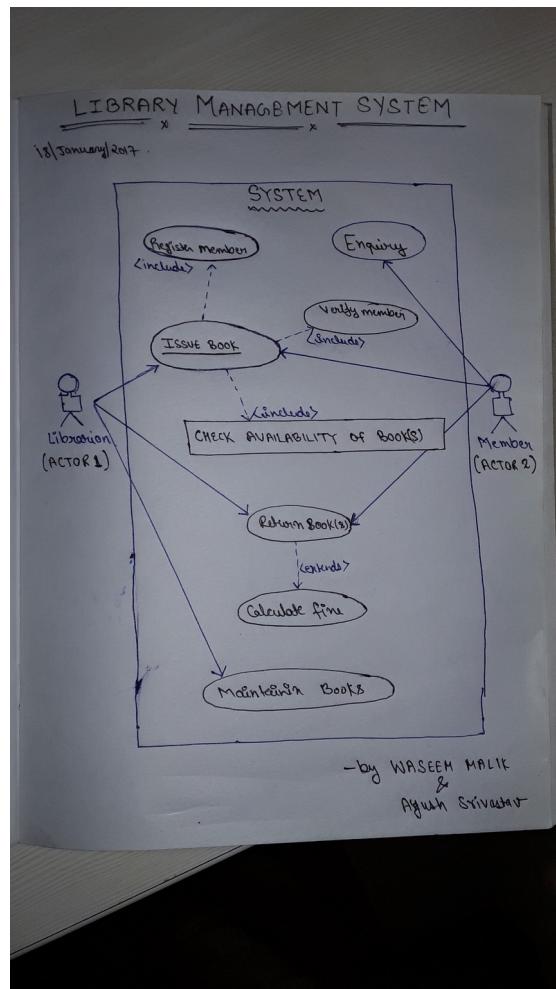
9.)PROPOSED SYSTEM
There will be three major components :
1. Data maintenance.
2. Transaction entry.
3. Reports.

10.)Proposed system provides with following solutions :
1. It provides "better and efficient" service to members.
2. Reduce the workload of employee.
3. Faster retrieval of information about the desired book.
4. Provide facility for proper monitoring reduce paper work and provide data security.
5. All details will be available on a click.

11.)UML DIAGRAM:

12.)E-R DIAGRAM :

Will be presented later.

13.)FUTURE SCOPE OF APPLICATION :

This application can be easily implemented under various situations.We can add new features as and when we require. Reusability is possible as and when require in this application. There is flexibility in all the modules.

14.)SOFTWARE FEATURES:

Extensibility
Reusability
Understandability

Conclusion

From a proper analysis of positive points and constraints on the component, it can be safely concluded that the software will a highly efficient GUI based component. This component can be easily plugged in many other systems. This will also helps in better management of library, issuance of Books, calculating fine and thus reducing redundancy and human factors.