



Library Management System

A Python Based Desktop Application &
Google Blogger Based E-Library

Presented By

**Ahin Shubhra Halder
Avijit Halder
Abhisek Midya
Atish Sarkar**

Supervised By

**Prof. Aparna Kisku Hansda
Dept. of Computer Science,
Syamaprasad College**

Domain Description

- In the world of automation, Technologies reduce paper works in office.
- In field of management by technology, here is our project about - Library Management System
- Promises to reduce time, energy and paper works in library.



Motivation & Scope of the Work

To eliminate time
taking paperwork.

To develop well
organized system for
book borrowing from
library.

To minimize the task
and effort being
performed by librarian
and borrower.

To create a more
effective system.

Review

- There was no authentication system (login page).
 - No admin panel & user panel was there.
 - No scope to add or modify member's or book's details.
 - No e-library page was attached to the system.
 - Lack of security was an issue.
-
- Review is Based on :-
<https://www.youtube.com/watch?v=GODYXAnBDvc>



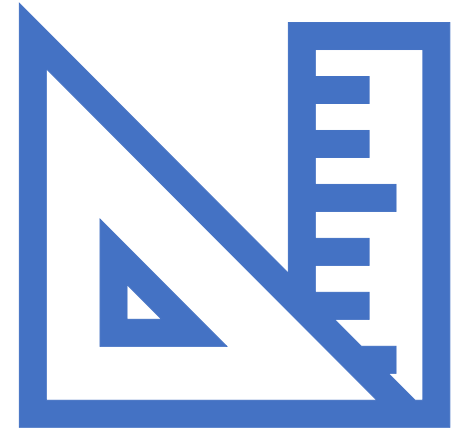
Problem Formulation

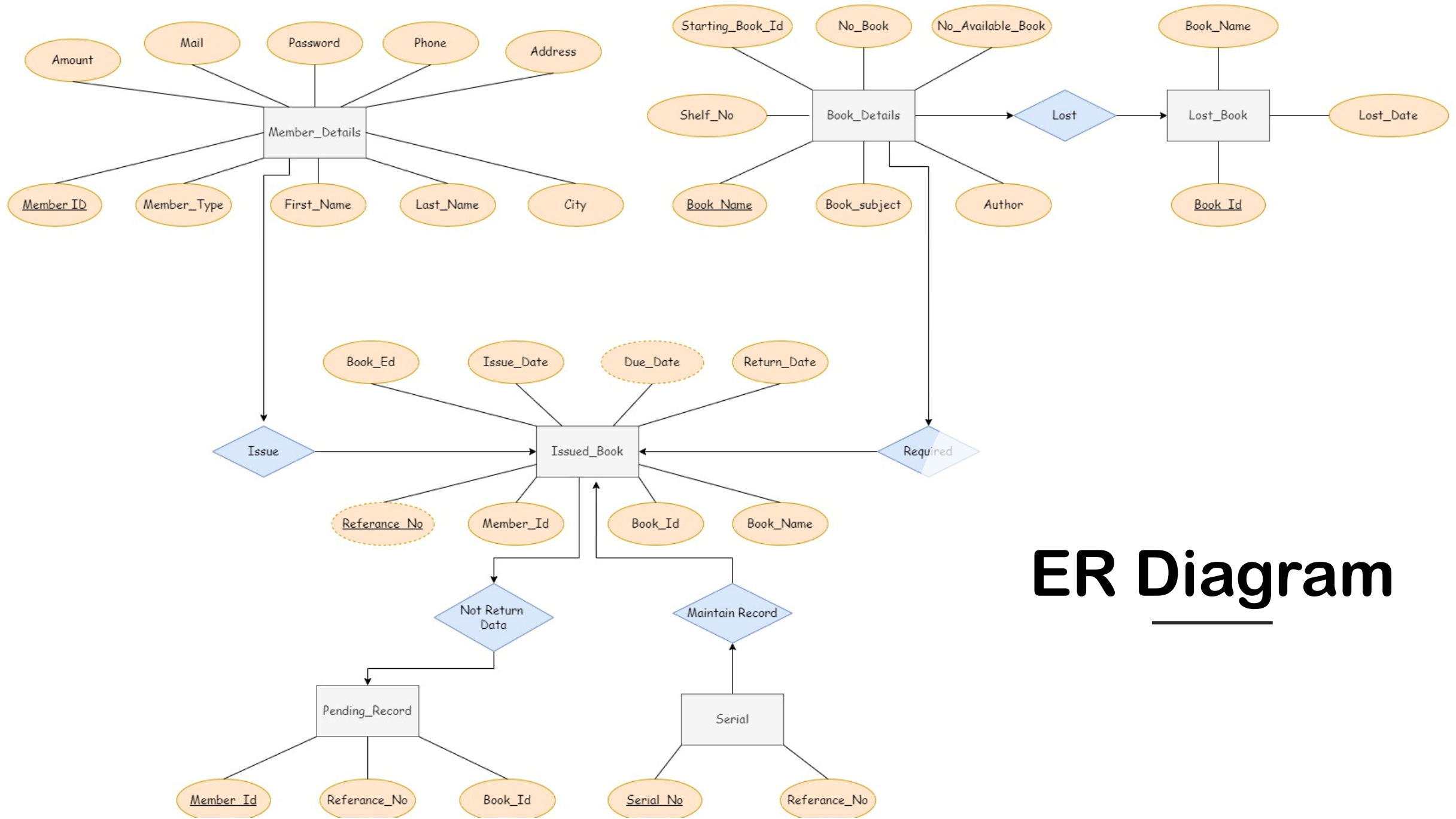


- Book's, User's information maintained easily.
- Ease of Borrowing or Returning Books.
- Ease of Tracking all records.
- Easily Manageable Library System for Administrator.
- E-Library and E-mail reminder.

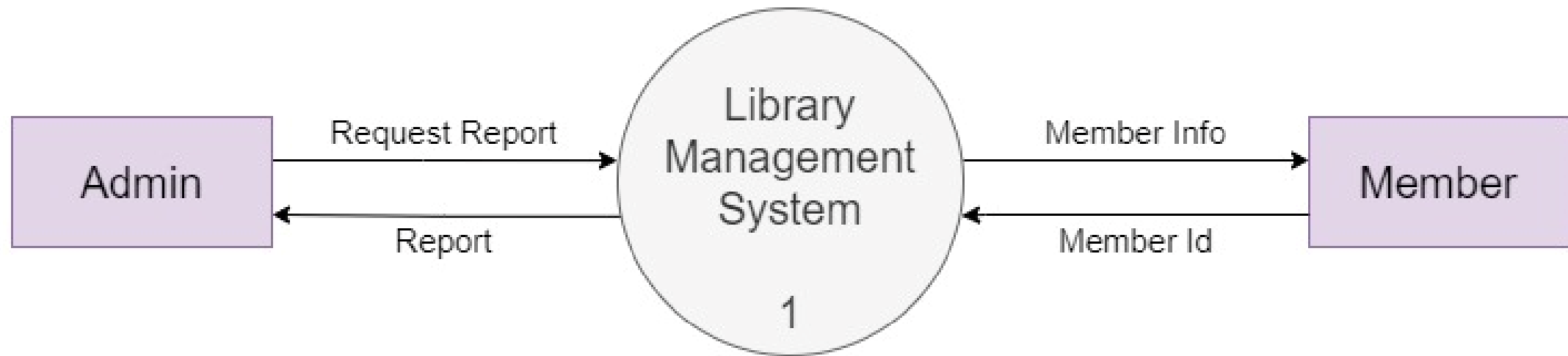
Design Description

ERD & DFD



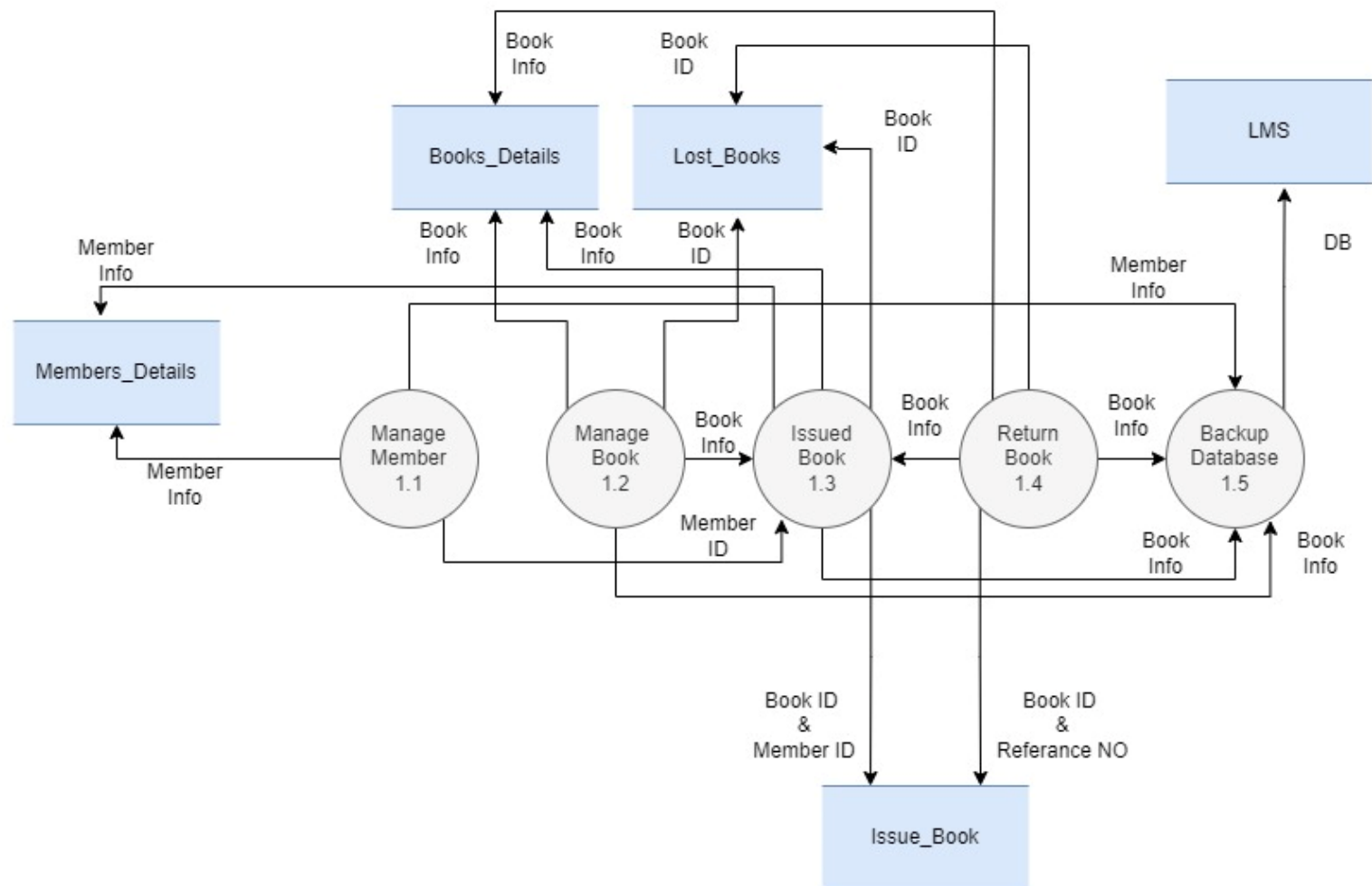


ER Diagram

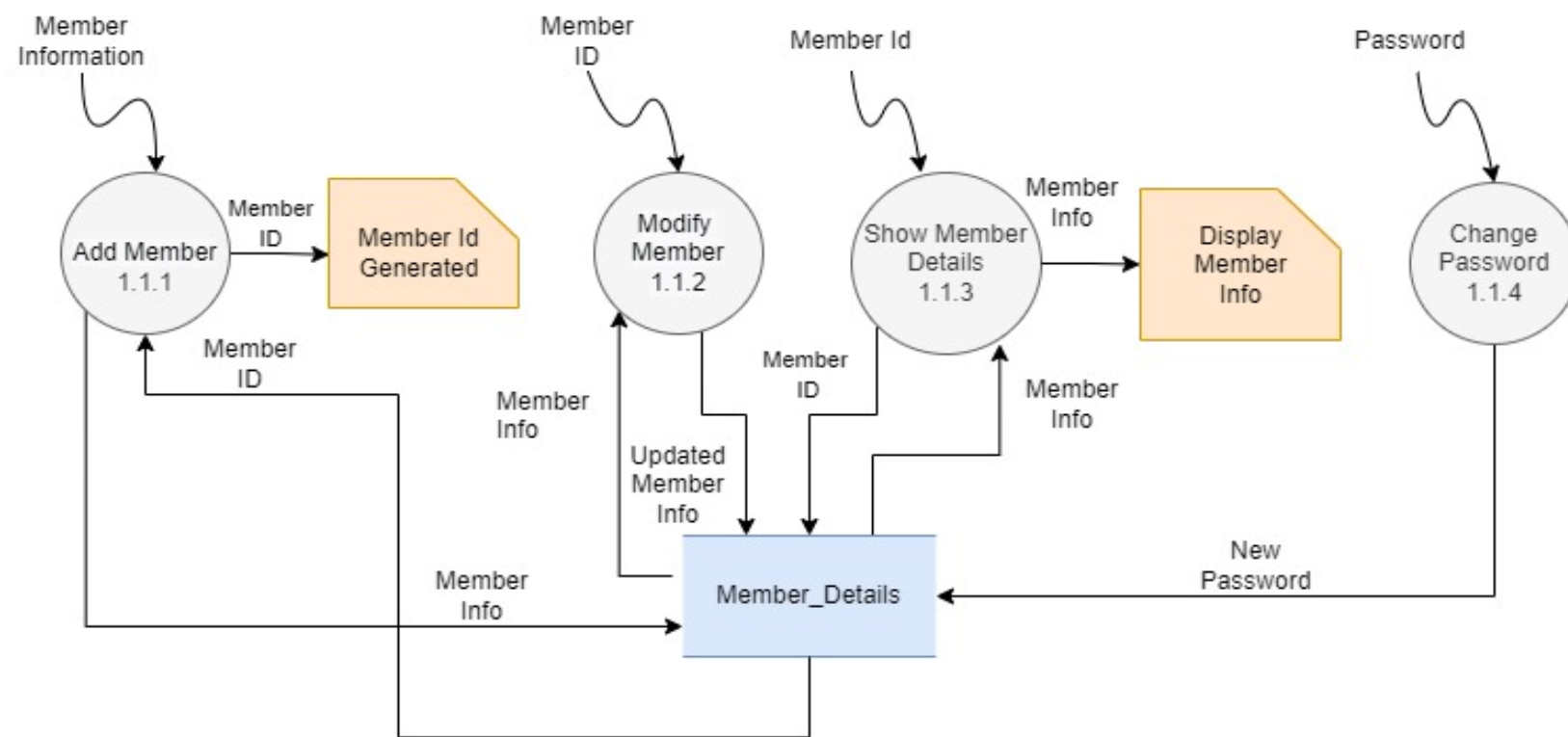


Lable-0 DFD
For
Library Management System

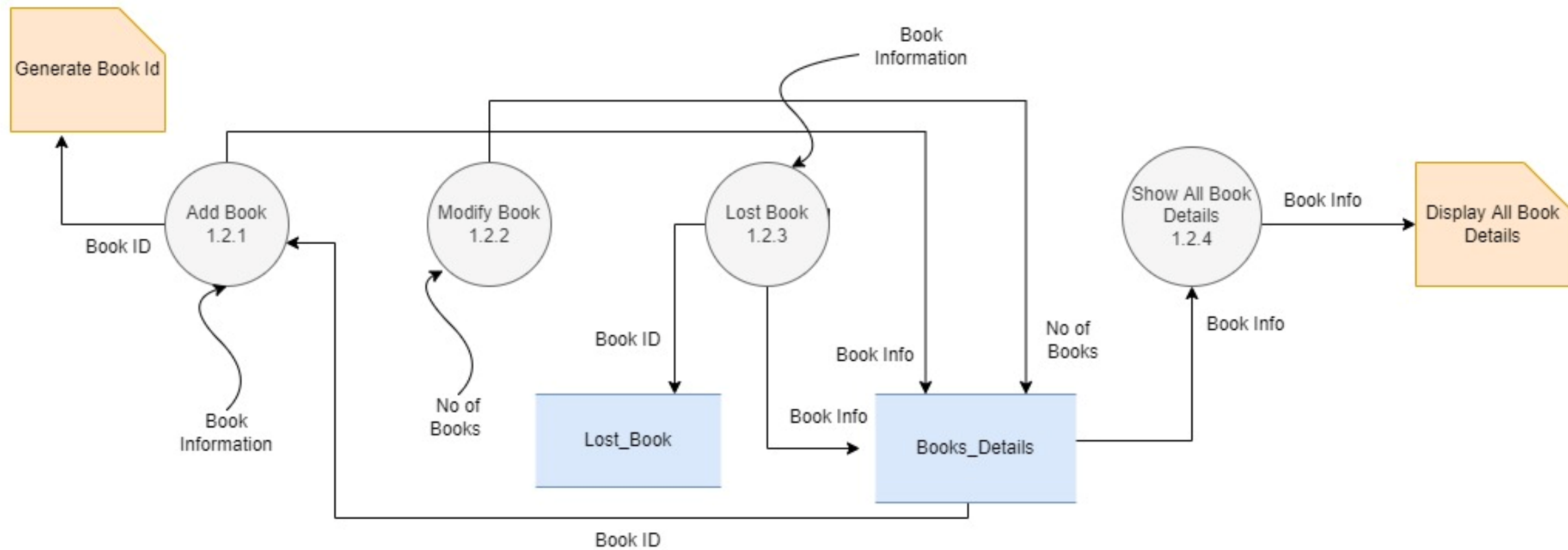
Data-Flow Diagram



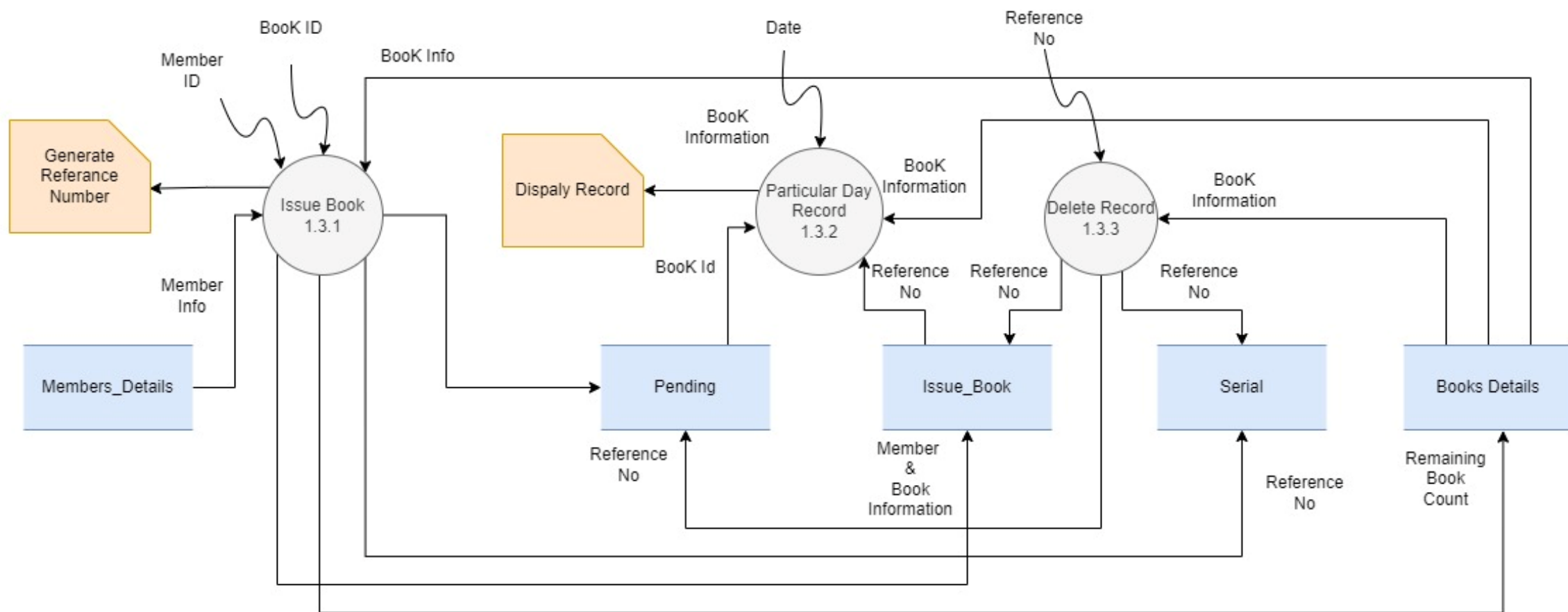
Lable-1 DFD
For
Library Management System



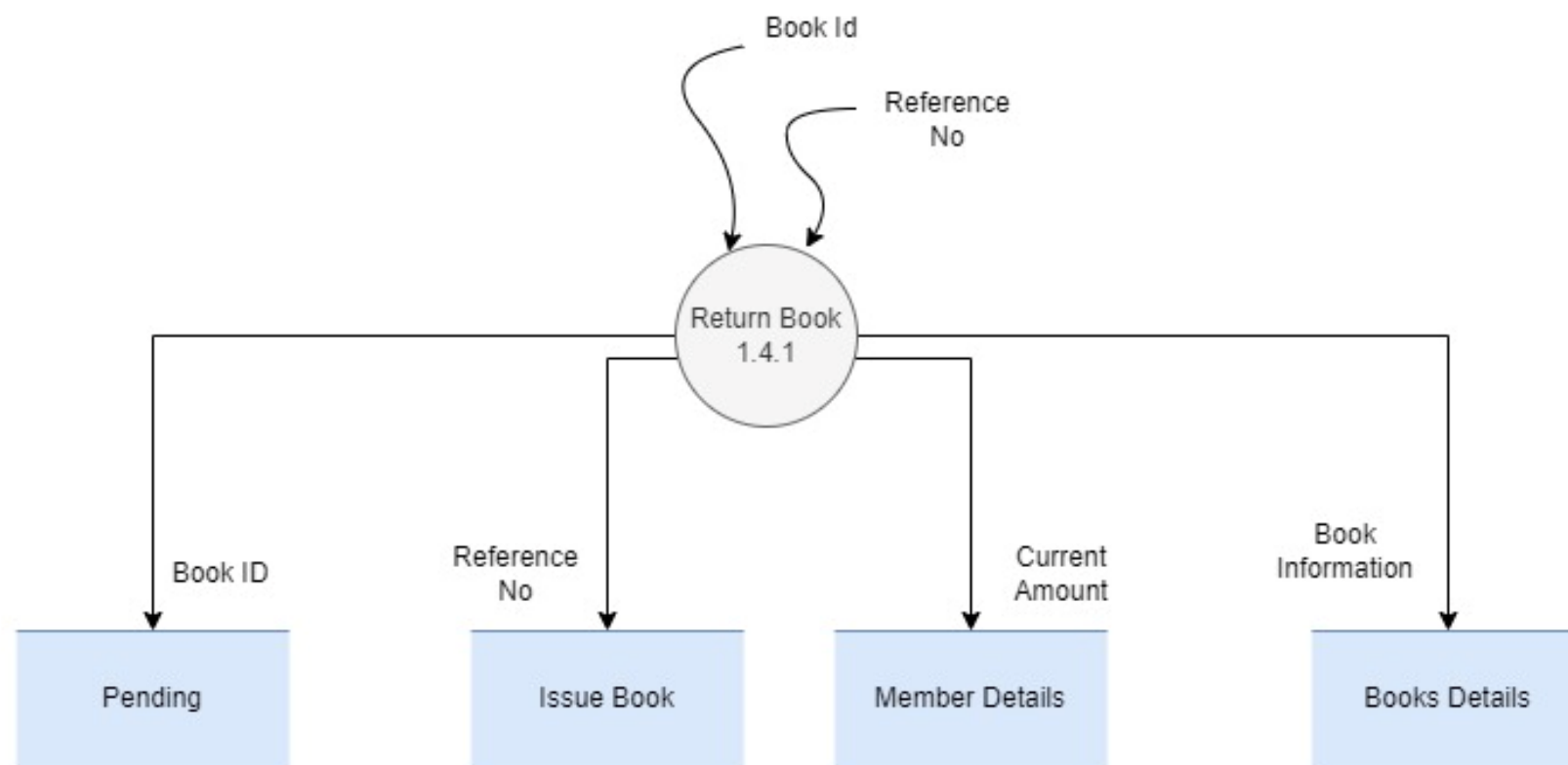
Lable-2 DFD
For
Manage Member
Module 1.1



Lable-2 DFD
For
Manage Book
Module 1.2



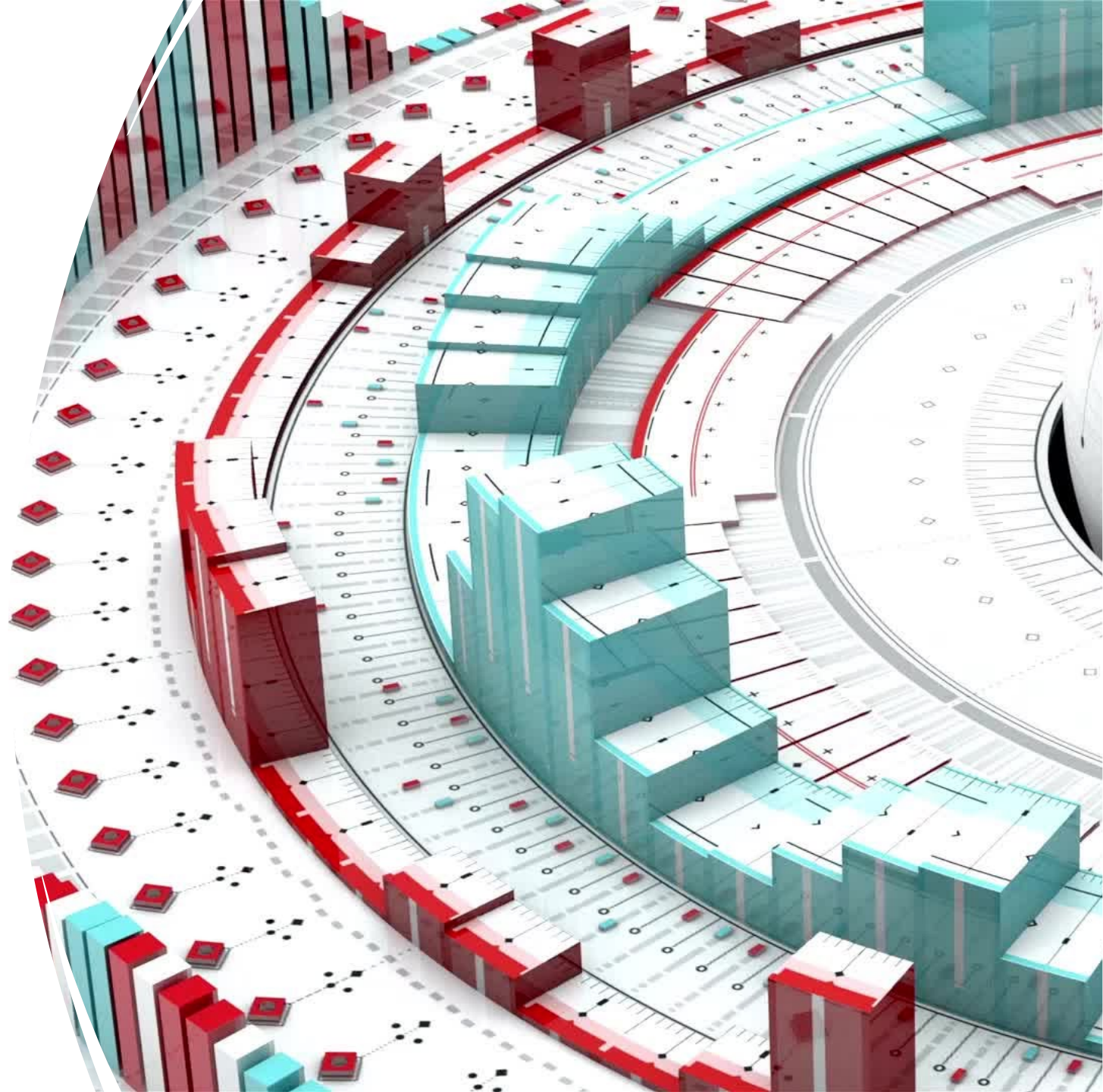
Lable-2 DFD
For
Issue Book
Module 1.3



Lable-2 DFD
For
Return Book
Module 1.4

Implementation


- Implementation is the stage where the theoretical design is turned into a working system.
- The system can be implemented only after thorough testing is done and if it is found to work according to the specification.



VIEW 1



Library Management System | Login Window



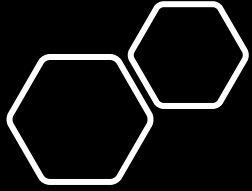
Username:

Password:

☐ Show Password

Login

Login Page



Admin Panel

- Here, Admin can monitor and manage all the information.
- All the available book related queries should be solved.
- Admin can send email reminders to all the members, whose books are due within two days.

File Edit Show Reminder Import Export Help

14 May 2022 Library Management System 12:55:05 PM

Library Membership Information

Member Type:

Member ID:

First Name:

Last Name:

Address:

Mail ID:

Mobile Number:

Balance:

Book ID:

Book Name:

Book Edition:

Book Subject:

Author Name:

Bookshelf No:

Issue Date:

Due Date:

Book Details

C++ Programming An Object Oriented Approach B
Computer System Architecture By Morris Mano
Core Java By Nageswara Rao
Core Python By Nageswara Rao
Data Communications And Networking By Behrouz
Data Structures Using C By E. Balagurusamy
Database System Concepts By F.Korth
Digital Image Processing By Richard E. Woods

Issue Book

Clear

Add Member

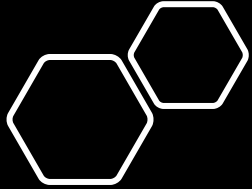
Add Book

Return Book

Exit

Serial No	Reference No	Member Type	Member Id	First Name	Last Name	Address	Mail Id	Mobile No	Book
10	1000120220514	Student	10001	Abhisek	Midya	49/4 Garfa	mid.abhi2000@gmail.com	7980609462	19v
9	1000220220514	Student	10002	Ahin	Subhra Halder	78 Garia	ahinsubhralder@gmail.com	6294580369	4C
8	1000520220514	Student	10005	Avijit	Halder	Kakdwip	avijithalder15834@gmail.com	7384127333	9C
7	1000420220514	Teacher	10004	Aparna	Kisku Hansda	Jadavpur	aparnakh19@gmail.com	9474879487	13v
6	1000320220514	Student	10003	Atish	Sarkar	191 Banerjee Para Road	atish8972407182@gmail.com	8972407182	4C
5	1001820220514	Student	10018	Tuhin	Das	Kolkata	dastuhin1996@gmail.com	9863147589	21v
4	1001520220514	Student	10015	Roshan	Sharma	Kolkata	roshansharma2001@gmail.com	9956841237	8C

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User Panel

- Users can log in to the system by using their username and password, which have been sent to their email id at the time of registration.
- Users can see all the book details by themselves.
- Users can go to the e-library directly from this panel.
- Users can change their password.

File Edit Show Help

14 May 2022 Library Management System 01:03:33 PM

Library Membership Information

Member Type:	Student	Department:	B.Sc Computer Science
Member ID:	10001	Mail ID:	mid.abhi2000@gmail.com
First Name:	Abhisek	Mobile Number:	7980609462
Last Name:	Midya	Balance:	5000
Address:	49/4 Garfa	Book Count:	1

Refresh

E-Books

Change Password

Exit

Book Details

Dbms

Digital

Image Processing

Information Security

Java

Microprocessor 8085

Networking

Operating System

Python

Shell Programming

An Object Oriented Approach By B

Architecture By Morris Mano

eswara Rao

geswara Rao

ns And Networking By Behrouz A.

Data Structures Using C By E. Balagurusamy

Database System Concepts By F.Korth

Digital Image Processing By Richard E. Woods

Digital Logic And Computer Design By Morris Mano

Fundamentals Of Computer Algorithms By Sartaj Sah

Serial No	Reference No	Book Id	Book Name	Book Edition	Book Subject	Book Author	Issue Date	Due Date	Returned Date
10	1000120220514	1902	Core Python By Nageswara Rao	3rd	Python	Nageswara Rao	2022-05-14	2022-06-15	None

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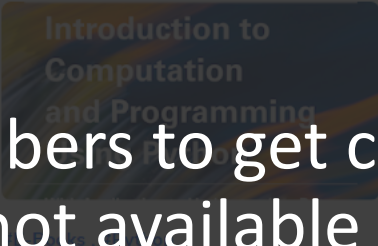
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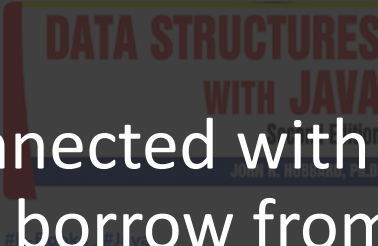
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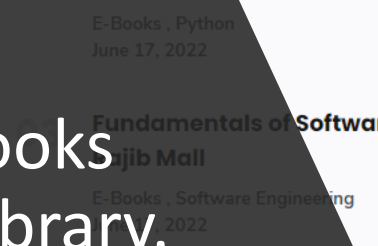
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SPC E-Library

- Our system supports members to get connected with books while required books are not available to borrow from library.

https://spclms.blogspot.com/2022/06/java-complete-reference-herbert-schildt.html

Windows taskbar: 33°C Rain showers, 15:34, 19-06-2022

Result

- We solved the problem that First Name & Last Name field should take only alphabet.
- Book due date can't be less than Issue book date if we enter due date less than issue date than system will give an error message.
- If we enter wrong Username and Password then it will give an error message.
- If we add previous recorded book into the database then the system will give an error message.



Conclusion

- Library Management System of the entire system improves the efficiency.
- It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the delay in communications.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.
- The System has adequate scope for modification in future if it is necessary.



Thank You

