

# **READERS HEAVEN**

## **INTRODUCTION:**

Readers heaven is a library management system project.

Libraries play a crucial role in providing access to knowledge and information in various formats to users. However, traditional library management systems often face challenges in terms of efficiency, accessibility, and adaptability in the digital age.

This project aims to address these challenges by designing and implementing a modern, user-friendly, and efficient library management system.

The primary problem to be tackled by this project is the outdated and manual methods of cataloging, borrowing, and returning books in the library. The objectives include improving the overall user experience, streamlining library operations, and facilitating better data management.

The subsequent sections of this document will delve into the related studies, the proposed model/application, experimental results, and a concluding summary of the project.

## **Related Studies:**

For this we studied mainly MySQL and tkinter

### **Mysql:**

In this we learnt the connection of pymysql with python.

BY Using pymysql we created tables for storing details of members.

pymysql is a Python library that allows you to interact with MySQL databases from your Python applications.

It's a popular choice for working with MySQL databases due to its simplicity and ease of use

### **Tkinter:**

Tkinter is a popular Python library for creating graphical user interfaces (GUIs). It comes pre-installed with most Python installations, making it accessible for building desktop applications

In this we learnt how to use tkinter in python for creating gui

## **Proposed Model/ Application:**

In this project first we have membership information like

member type

rollno

firstname  
lastname  
mobileno  
booktitle  
author  
Date of borrowed  
Datedue  
Daysonbook  
Daysonbook  
latereturn fine  
date of return  
we also have book details. first we have to select book name then book details will be displayed automatically.

We have 6 buttons below

### **Adddata:**

We have to fill all details of membership details then if we press add button then information is added

### **Showdata:**

After adding the details if we want to display data then select data from scroll bar below and press show data then information is displayed in right box.

### **update data:**

If we want to update information of member we can select from scroll bar and then update it and press update button then information is updated

### **Delete:**

If you want to remove information of member then select it and press delete button

### **reset data:**

If you want to reset all information of member select it and do reset

## Exit:

If we want to exit from this readers heaven press exit

we also have frame which contains details of members after addition we can select them and do above operations by using scroll bar

The screenshot shows the 'READERS HEAVEN' application window. The title bar is green with the text 'READERS HEAVEN' in red. The main interface is divided into several sections:

- MEMBERSHIP INFORMATION:** A form with fields for member type (Lecturer), Author (kiran), RollNo (567), Date of borrowed (2023-11-22 21:08:02.938), FirstName (mary), Datedue (2023-11-22 21:08:02.938), LastName (hameeda), daysonbook (16), Mobileno (6782264322), latereturnfine (RS.35), Booktitle (Complex Analysis), and DateofReturn (2023-11-25).
- BOOK DETAILS:** A vertical list of books including Algorithms, Compilers, Operating S, Probability, Software E, Advanced C, Complex A, Database M, Computer C, and Analysis of.
- Action Bar:** Buttons for Add Data, Show Data, Update, Delete, Reset, and Exit.
- Data Grid:** A table displaying member data with columns: member type, RollNo, FirstName, LastName, Mobileno, BookTitle, Author, Dateofborrowed, Datedue, daysonbook, latereturnfine, and DateofReturn. The data includes rows for student and lecturer members with their respective details.

READERS HEAVEN

# READERS HEAVEN

<b>MEMBERSHIP INFORMATION</b>		<b>BOOK DETAILS</b>	
<b>membertype</b>	Lecturer	<b>Author</b>	kiran
<b>RollNo</b>	567	<b>Dateofborrowed</b>	2023-11-22 21:08:02.938
<b>FirstName</b>	mary	<b>Datedue</b>	2023-11-22 21:08:02.938
<b>LastName</b>	hameeda	<b>daysonbook</b>	16
<b>Mobileno</b>	6782264322	<b>latereturnfine</b>	RS.35
<b>Booktitle</b>	Complex Analysis	<b>DateofReturn</b>	2023-11-25

Add Data		Show Data		Update		Delete		Reset		Exit	
membertype	RollNo	FirstName	LastName	Mobileno	BookTitle	Author	Dateofborrowed	Datedue	daysonbook	latereturnfine	DateofReturn
student	2022bcd0209	Dondeti	Harshitha	9133410232	Advanced Computer	nicholas	2023-11-06 20:55:29.	2023-11-06 20:55:29.	13	RS.45	2023-11-14
student	2022bcd0212	maleeha	a freen	123545567	Analysis of Data Stru	holoon	2023-11-12 16:28:23J	2023-11-12 16:28:23J	18	RS.60	2023-11-16
Lecturer	567	mary	hameeda	6782264322	Complex Analysis	kiran	2023-11-22 21:08:02!	2023-11-22 21:08:02!	16	RS.35	2023-11-25

READERS HEAVEN

## READERS HEAVEN

**MEMBERSHIP INFORMATION**

membertype	<input type="text"/>	Author	<input type="text"/>
RollNo	<input type="text"/>	Dateofborrowed	<input type="text"/>
FirstName	<input type="text"/>	Datedue	<input type="text"/>
LastName	<input type="text"/>	daysonbook	<input type="text"/>
Mobileno	<input type="text"/>	latereturnfine	<input type="text"/>
Booktitle	<input type="text"/>	DateofReturn	<input type="text"/>

**BOOK DETAILS**

- Algorithms
- Compilers
- Operating S
- Probability
- Software E
- Advanced C
- Complex A
- Database M
- Computer C
- Analysis of

**Add Data**    **Show Data**    **Update**    **Delete**    **Reset**    **Exit**

membertype	RollNo	FirstName	LastName	Mobileno	BookTitle	Author	Dateofborrowed	Datedue	daysonbook	latereturnfine	DateofReturn
student	2022bcs0209	Dondeti	Harshitha	9133410232	Advanced Computer	nicholas	2023-11-06 20:55:29..	2023-11-06 20:55:29..	13	RS.45	2023-11-14
student	2022bcs0212	maleeha	aureen	12345567	Analysis of Data Stru	holoon	2023-11-12 16:28:23..	2023-11-12 16:28:23..	18	RS.60	2023-11-16

READERS HEAVEN

## READERS HEAVEN

**MEMBERSHIP INFORMATION**

membertype	<input type="text"/>	Author	<input type="text"/>
RollNo	<input type="text"/>	Dateofborrowed	<input type="text"/>
FirstName	<input type="text"/>	Datedue	<input type="text"/>
LastName	<input type="text"/>	daysonbook	<input type="text"/>
Mobileno	<input type="text"/>	latereturnfine	<input type="text"/>
Booktitle	<input type="text"/>	DateofReturn	<input type="text"/>

**BOOK DETAILS**

- Algorithms
- Compilers
- Operating S
- Probability
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- Analysis of

**Add Data**    **Show Data**    **Update**    **Delete**    **Reset**    **Exit**

membertype	RollNo	FirstName	LastName	Mobileno	BookTitle	Author	Dateofborrowed	Datedue	daysonbook	latereturnfine	DateofReturn
student	2022bcs0209	Dondeti	Harshithareddy	12345567	Analysis of Data Stru	holoon	2023-11-12 16:28:23..	2023-11-12 16:28:23..	18	RS.60	2023-11-16
student	2022bcs0212	maleeha	aureen	12345567	Analysis of Data Stru	holoon	2023-11-12 16:28:23..	2023-11-12 16:28:23..	18	RS.60	2023-11-16

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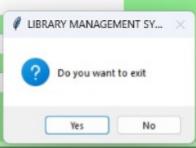
# READERS HEAVEN

**MEMBERSHIP INFORMATION**

membertype	Author
RollNo	Dateofborrowed
FirstName	Datedue
LastName	daysonbook
Mobileno	latereturnfine
Booktitle	DateofReturn

**BOOK DETAILS**

Algorithms
Compilers
Operating S
Probability
Software E
Advanced C
Complex A
Database M
Computer C
Analysis of

LIBRARY MANAGEMENT SY... 

Do you want to exit?

Yes No

Add Data		Show Data		Update		Delete		Reset		Exit	
membertype	RollNo	FirstName	LastName	Mobileno	BookTitle	Author	Dateofborrowed	Datedue	daysonbook	latereturnfine	DateofReturn
student	2022bcs0209	Dondeti	Harshithareddy								
student	2022bcs0212	maleeha	a freen	123545567	Analysis of Data Stru	holoon	2023-11-12 16:28:23	2023-11-12 16:28:23	18	RS.60	2023-11-16

Query 1 x

1 • select \* from library;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid |

membertype	RollNo	FirstName	LastName	Mobileno	Booktitle	Author	Dateofborrowed	Datedue
student	2022bcs0209	Dondeti	Harshitha	9133410232	Advanced Computer Architecture	nicholas	2023-11-06 20:55:29.257774	2023-11-06 20:55:29.257774
student	2022bcs0212	maleeha	a freen	123545567	Analysis of Data Structures and Algorithms	holoon	2023-11-12 16:28:23.001872	2023-11-12 16:28:23.001872
Lecturer	567	mary	hameeda	6782264322	Complex Analysis	kiran	2023-11-22 21:08:02.938148	2023-11-22 21:08:02.938148
	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL

library 1 x

Output

Action Output

#	Time	Action
1	21:09:58	select *from library LIMIT 0, 1000

Message  
4 row(s) returned

## ***Conclusion:***

In conclusion, the library management system project has successfully addressed the challenges faced by traditional library systems by introducing a modern, user-friendly, and efficient solution. The project not only streamlines library operations but also enhances the user experience, making it easier for patrons to access and borrow books. While the project has shown promising results, ongoing improvements and enhancements are needed to keep pace with evolving user needs and technological advancements. This project serves as a foundation for further research and development in the field of library management systems.