The background of the slide is a photograph of a library bookshelf. The shelves are filled with books of various colors, including blue, red, and brown. The books are arranged in rows, and the perspective is slightly angled. The text is overlaid on this image.

LIBRARY MANAGEMENT SYSTEM

PROJECT REPORT- 141,142



CONTENTS:



**INTRODUCTION TO
THE PROJECT**



**DATA
REQUIREMENTS**



DATA TYPES



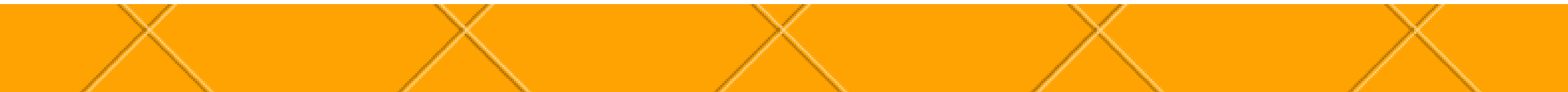
**ENTITY-RELATIONSHIP
DIAGRAM**



MODULES



OUTPUTS





INTRODUCTION

ABOUT:

Library Management System allows the user to store the book details and the customer details. The system is designed to withstand monthly operations under conditions where the database is maintained and cleared over a certain time span. The implementation of this system will reduce data entry time and efforts, and also provide readily calculated reports.

OBJECTIVE:

It keeps track of all the information about the books in the library, their cost, status and total number of books available. User will find it easy as it is automated system rather than using the manual writing system. This database system contains all the information safely.



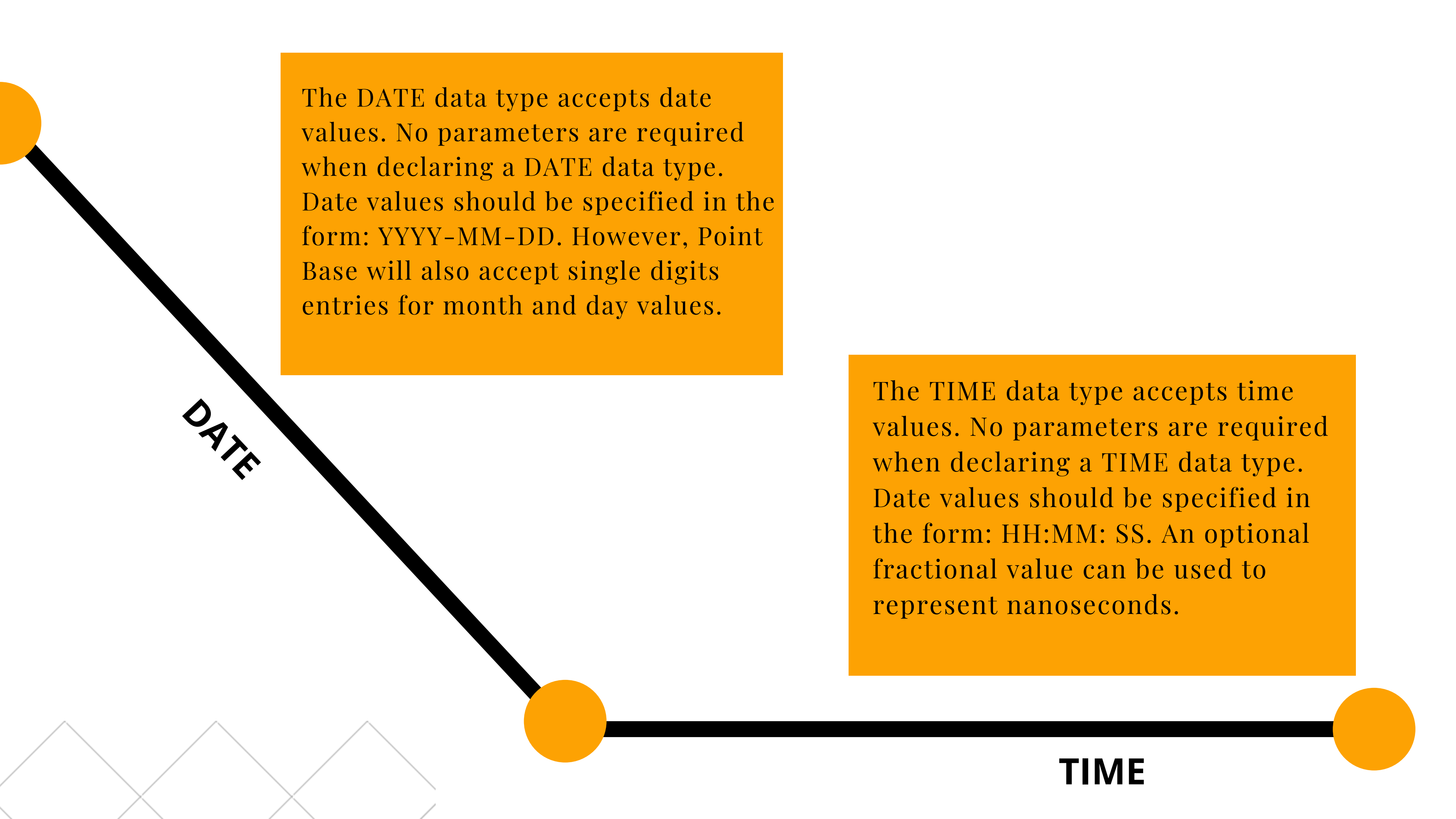
DATA TYPES AND DESCRIPTION

One optional sign character (+ or -) followed by at least one digit (0-9). Leading and trailing blanks are ignored. No other character is allowed.

INTEGER

It is used to store alphanumeric characters. In this data type we can set the maximum number of characters up to 8000 ranges by default. SQL server will set the size to 50 characters range.

VARCHAR



The DATE data type accepts date values. No parameters are required when declaring a DATE data type. Date values should be specified in the form: YYYY-MM-DD. However, Point Base will also accept single digits entries for month and day values.

The TIME data type accepts time values. No parameters are required when declaring a TIME data type. Date values should be specified in the form: HH:MM:SS. An optional fractional value can be used to represent nanoseconds.

TIME

DATA REQUIREMENTS

ENTITIES

- BOOKS
- PUBLISHER
- STATUS
- MEMBER



DATA REQUIREMENTS

ATTRIBUTES

- BOOKS
 - BOOK ID
 - TITLE
 - AUTHOR
 - GENRE
 - PRICE
 - AVAILABILITY

ATTRIBUTES

- PUBLISHER
 - PUB_ID
 - PUB_NAME
 - ADDRESS

DATA REQUIREMENTS

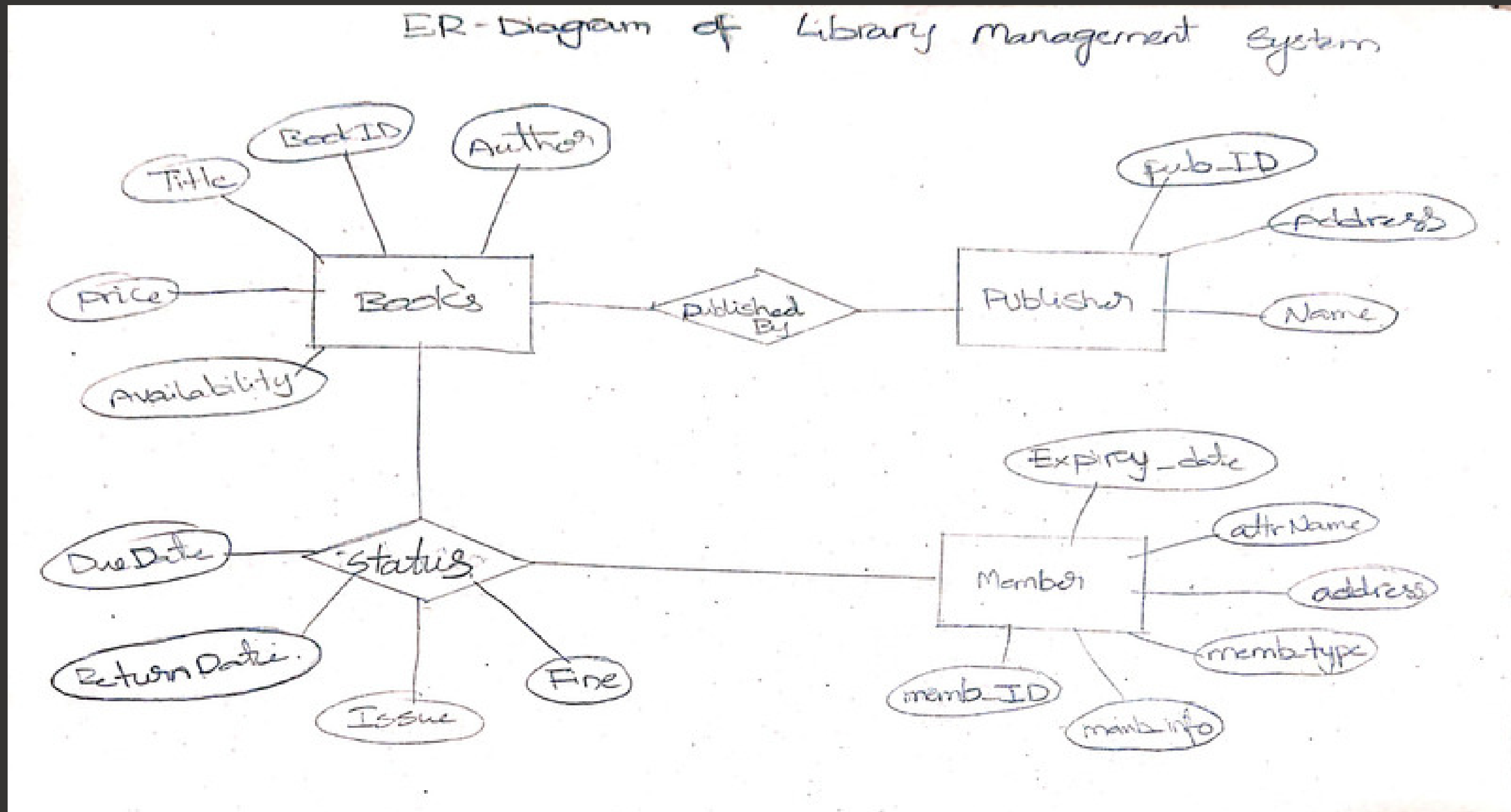
ATTRIBUTES

- STATUS
- ISSUE DATE
- DUE DATE
- RETURN DATE
- FINE AMT

ATTRIBUTES

- MEMBER
- MEM_ID
- MEM_NAME
- ADDRESS
- PHONE NO.
- EMAIL ID

ENTITY RELATIONSHIP DIAGRAM



MODULE 1: TKINTER

Tkinter is a standard library in Python which is used for GUI application. Tkinter has various controls which are used to build a GUI-based application.

Our project frontend has been created with the use of the Tkinter libraries.

Python with tkinter is the fastest and easiest way to create the GUI applications. Creating a GUI using tkinter is an easy task.

MODULE 2: SQLITE 3

SQLite in general is a server-less database that you can use within almost all programming languages including Python. Server-less means there is no need to install a separate server to work with SQLite so you can connect directly with the database.

We have used SQLite3 in our project, in order to connect the databases to the python code.

LOGIN PAGE

Library Management System

LIBRARY MANAGEMENT SYSTEM

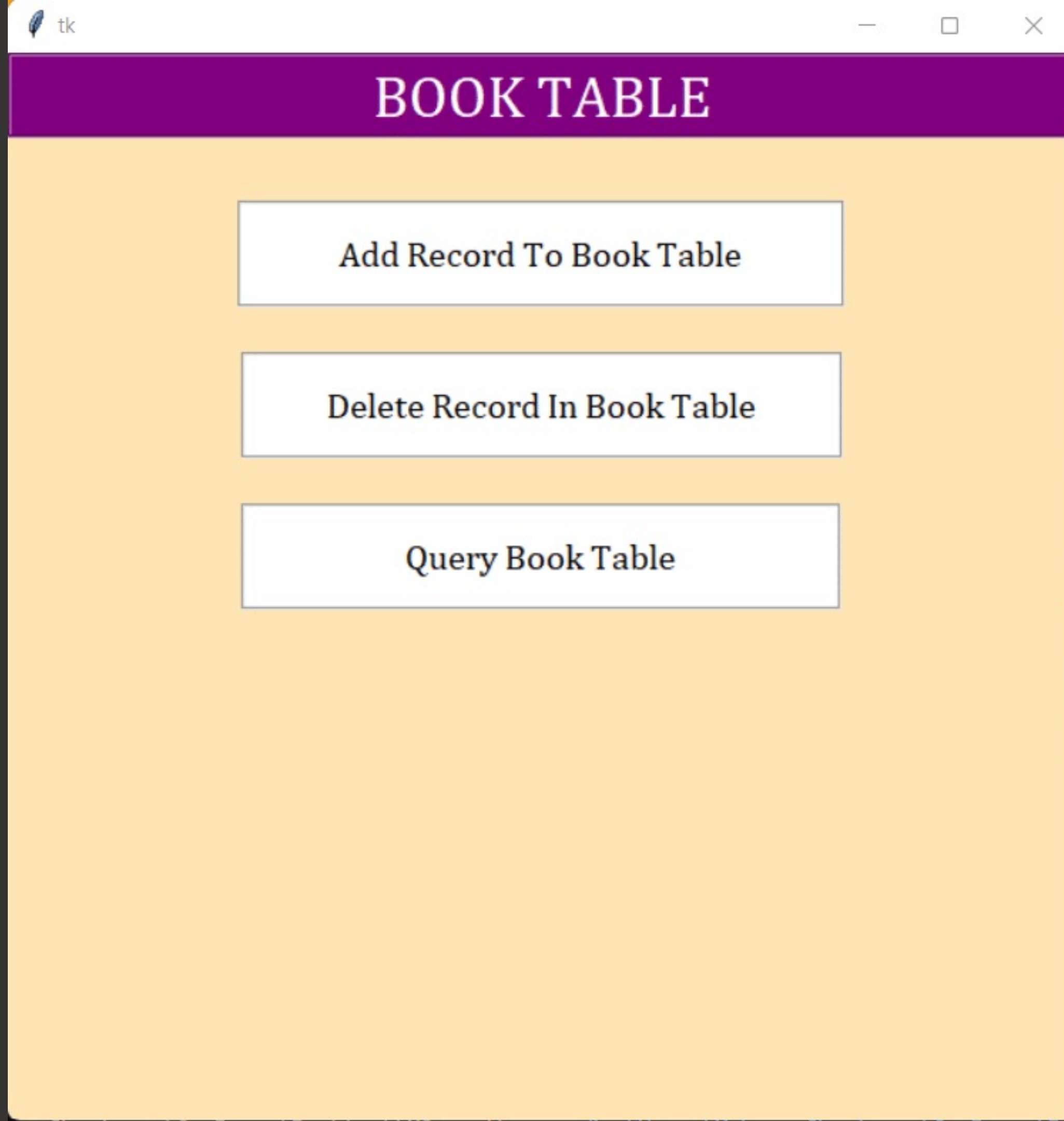
LOGIN PAGE

USER ID :

PASSWORD :

Log In

WELCOME PAGE



ADD RECORDS

tk

—□×

ADD RECORD TO BOOK TABLE

Book id :	<input type="text" value="1"/>
Title :	<input type="text" value="Harry potter"/>
Author :	<input type="text" value="J.K. Rowling"/>
Genre :	<input type="text" value="Fantasy"/>
Price :	<input type="text" value="899"/>
Availability :	<input type="text" value="1"/>
Publisher_id :	<input type="text" value="1"/>

Add Book

MEMBER TABLE QUERY RESULTS

member_id	name	contact_no	email_id	address
1	Mohana	9876789541	mohana@gmail.com	Guntur
2	Chaitanya	8796728954	chaitanya23@gmail.com	Vizag
3	Pratiksha Ghosh	8567234876	pratiksha791@gmail.cpm	kolkata
4	Gopal	8789098752	gopal428@gmail.com	Hyderabad
5	Harshith	8067854231	harshith356@gmail.com	Banglore

THANK YOU!



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