Book Management System

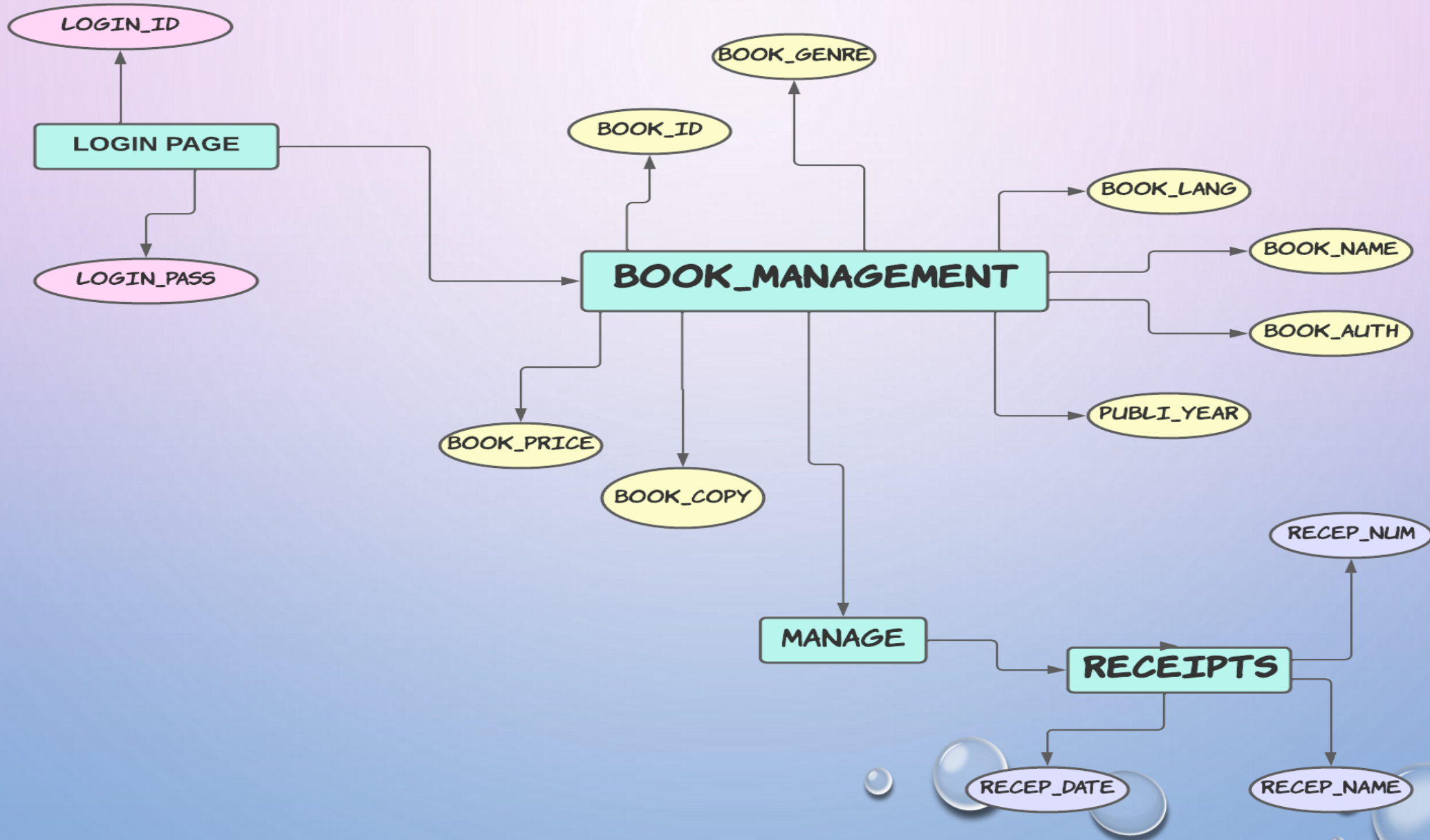
Prerequisite software :

1. Python Interpreter,
2. Vs Studio Code Editor,
3. MySQL Server,
4. MySQL Workbench 8.0 CE,
5. Notepad,
6. ER Diagram Maker.

INTRODUCTION:

- This mini project is the sample project for managing book.
- Project system that offers many flexible and convenient features.
- Only basic knowledge of python and tkinter library is required for operation.
- Consist of all information of books and books insertion , deletion etc.
- It is beneficial for the user to easy access through this connector.
- It is a GUI interface for the managing the book in the library or shop

ER Diagram :


LOGIN_ID
LOGIN PAGE
LOGIN_PASS
BOOK_GENRE
BOOK_ID
BOOK_MANAGEMENT
BOOK_LANG
BOOK_NAME
BOOK_AUTH
PUBLI_YEAR
BOOK_PRICE
BOOK_COPY
MANAGE
RECEP_NUM
RECEIPTS
RECEP_DATE
RECEP_NAME

Database Table :

MySQL 8.0 Command Line Client

```
| student_admission  |
| sys                |
+--------------------+
9 rows in set (0.03 sec)

mysql> use book_management;
Database changed
mysql> show tables;
+---------------------------+
| Tables_in_book_management |
+---------------------------+
| book_management           |
+---------------------------+
1 row in set (0.01 sec)

mysql> select * from book_management;
+---------+---------------+-----------+-----------------------------+-----------------+--------------+-----------+------------+
| Book_Id | Book_Genre    | Book_Lang | Book_Name                   | Book_Auth       | Publish_year | Book_copy | Book_Price |
+---------+---------------+-----------+-----------------------------+-----------------+--------------+-----------+------------+
|       1 | Story         | English   | Revolution 2020             | Chetan Bhagat   |         2011 |        15 |        176 |
|       2 | Programming   | English   | Head First Java             | Kathy Sierra    |         2003 |        40 |        750 |
|       4 | ATT           | English   | Apptitude Book              | R.S.Agrwal      |         1989 |        50 |        477 |
|       5 | Novel         | English   | The Thousand Splendid of Sun | Khaled Hosseini |         2007 |        45 |        999 |
|       6 | Horror        | English   | Night Things                | Michael Talbot  |         1988 |        20 |        400 |
|       7 | Story         | Marathi   | Chhava                      | Shivaji Sawant  |         1967 |        30 |        435 |
|       8 | Fiction       | Marathi   | Bakula                      | Sudha Murthy    |         2009 |        40 |         89 |
|       9 | Inspirational | Marathi   | Man Mai Hai Vishwas         | Vishwas Patil   |         2019 |        25 |        300 |
|      10 | Fiction Novel | English   | Red Rising                  | Red Brown       |         2014 |        32 |        300 |
|      11 | Fiction       | Hindi     | Yaaden                      | Apurva Patil    |         2010 |        21 |        315 |
|      12 | Religion      | Hindi     | Jeevan-Amrit                | Dattaji Desai   |         2009 |        25 |        142 |
|      13 | General       | English   | General Knowledge 2022      | Manohar Pandey  |         2021 |        60 |        142 |
|      14 | Historic      | English   | ALL the Light We Cannot See | Anthony Doerr   |         2014 |        50 |        400 |
|      15 | Memoir        | English   | Becoming                    | Michelle Obama  |         2018 |        34 |        999 |
+---------+---------------+-----------+-----------------------------+-----------------+--------------+-----------+------------+
14 rows in set (0.00 sec)
```

Type here to search
79%
25°C
ENG
IN
12:35 AM
3/1/2022

PROPOSED WORK:

- The project consist of following modules :

  - Maintenance of book records.

    1. Add new 2. Display 3. Update 4. Delete 5. Search 6. Reset 7.Exit

  - Displaying the book table.
  - Select the particular row from the table for the updation.
  - Select the particular row form the table for the deletion.
  - Select the particular row form the table for the searching.

WHAT IS A BASE OF PROJECT ?

Project name is the “book management system ” which include the python , mysql And python library tkinter language. Python offers multiple options for developing GUI (graphical user interface). Out of all the GUI methods, tkinter is the most commonly used method. It is a standard python interface to the tk GUI toolkit shipped with python. Python with tkinter is the fastest and easiest way to create the GUI applications. Creating a GUI using tkinter is an easy task.

To create a tkinter app:

1. Importing the module – tkinter
2. Create the main window (container)
3. Add any number of widgets to the main window
4. Apply the event trigger on the widgets.

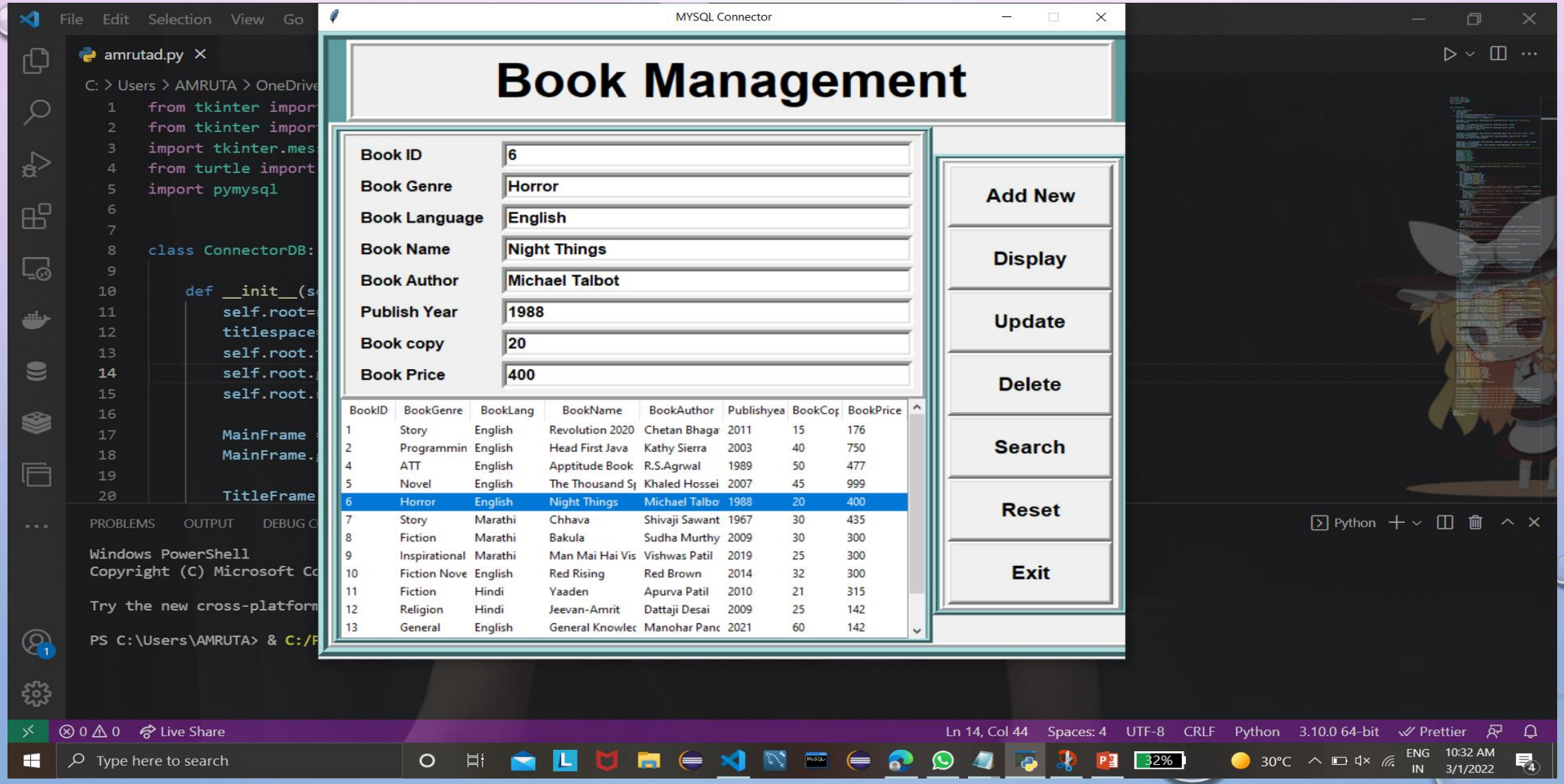
How to connect MYSQL server to Python Interpreter?

- To connect to the mysql server we have to install pymysql.
- Then we have to connect localhost to python interpreter.
- We have also gave password in the source code.
- We have insert correct query for the particular function.

FOR THE SOURCE CODE GITHUB LINK :

- Github link : https://github.com/Amruta-Dongare/Book-Management-System-Project/blob/main/Book-Management%20-System/Book-Managament-System-Project.txt

MYSQL Connector Table :



Conclusion :

- This system allows the user to display the book details.
- Also allows to update the data of table.
- And also insert new data into table.
- Easier to use system to whom don’t know about the mysql query.
- The system is strong enough to provide security to the data
- Provided facility of reset , search ,delete the data from the table.
- Improved efficiency and effectiveness in adminstration

THANK YOU .