

# FINAL PROJECT

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The initial step is setting up the database in postgresql using the pg\_dump\_schemaonly and the schema will be created and data can be restored using the pg\_dump\_dataonly, after adding the data you can check the tables whether the restoration is successful.

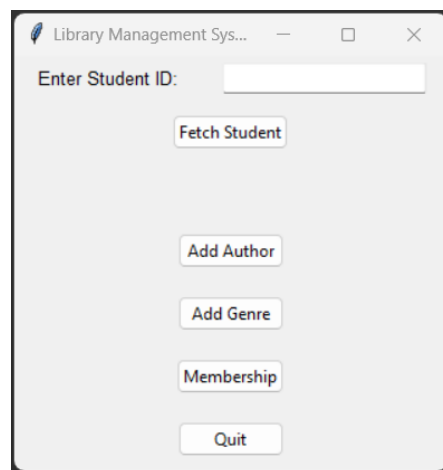
The next step is to open the dbms python file and install the libraries required for this code. These are the libraries required to be installed tkinter, datetime and psycopg2.

Check the database connection by checking the portnumber, password and other details.

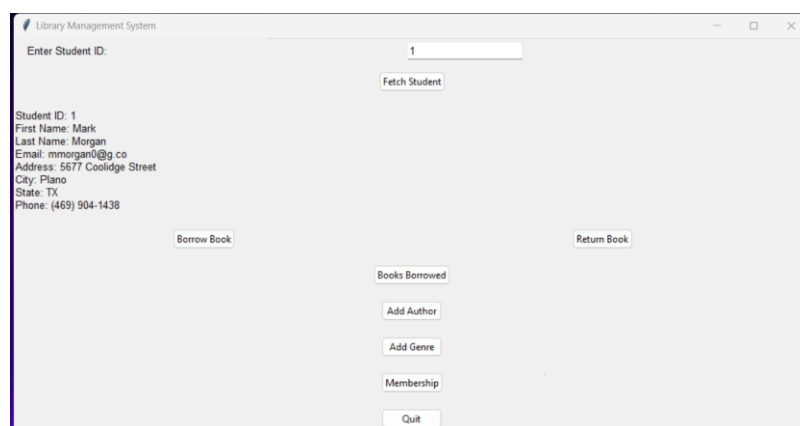
Once everything is set up you can run the program.

## Working of code:

This code is for Library Management system starts with this page:



After entering the student id it will show the details of the student with multiple options of borrow book, return book and books borrowed



After choosing the borrow book it will ask the book id after entering it will show the book details and if the book is not taken by any other student he can borrow with maximum of 5 books.

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In the case of returning book it will ask the book id if he borrowed the book he can return if not he can't return the unborrowed book, this will be checked and done with the help of history table which has transaction id, book id and student id.

The add author and add genre options will add the author and genre and also it will ask the book id so automatically it will get updated in the books table so the student can borrow the book.

The membership option is for the students, this will let the student to take maximum book of 10, by entering the student\_id, name and timeline for the membership and the date will automatically updated as today's date, and quit button will exit from the whole program .