

# Computer Practical Project 2021

by **Saksham Sharma**  
on **October 11, 2021**



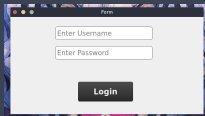
# Overview

Following is a document listing the features of a Library Management System that was built after being frustrated by the manual handling of data at the local library. The features include a system to manage a database of books, Admins and Clients, and the ability to modify, sort and export relevant data. The document also includes basic instructions if one wants to modify the program



## Objective

To Build a Library management system that is easy to use and provides a hassle free experience



- \* Built with Python and QT Framework
- \* MySQL Database Hosted on Clever Cloud

# Features

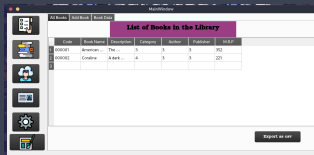
## Main system

- \* Login Page
- \* Users
- \* Add Users (Signup)
- \* Add a Book
- \* Edit Book Info
- \* Delete Book
- \* Categories
- \* Settings [Categs, Author, Publisher]
- \* Day To Day Transaction Log
- \* Reports [Excel Files]



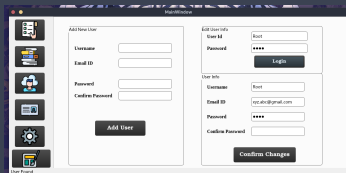
## Book

- \* Title
- \* ISBN Code
- \* Description
- \* Category
- \* Price
- \* Author
- \* Publisher



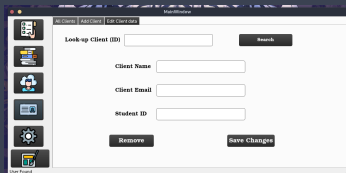
## Admin

- \* User Name
- \* Password
- \* Email Id



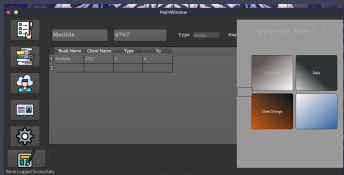
## Client / Students

- \* Username
- \* Student ID
- \* Email ID



## Day-to-Day

- \* Book name
- \* Type  
(Issue / Return)
- \* Duration (weeks)



## Category, Publisher, Author

- \* Names
- \* List

## Future Prospects

- \* WebApp
- \* Integrate  
barcode scanning
- \* Ability  
to select local  
or cloud database

# Resources

## Requirements

If you  
want to edit the .ui  
files ie the actual  
LOOK or LAYOUT

- \* **Install on Windows (Link)**
- \* **Install on Mac (Link)**

Installing on Linux (Debian and Fedora)

```
sudo apt-get install  
qttools5-dev-tools qttools5-dev  
sudo dnf install qttools5-dev-tools  
qttools5-dev
```

To  
in-  
stall  
python  
dependencies  
use  
the  
requirements.txt file with python pip

## Icon Manipulation:

Follow these steps  
to change the  
programs icons

1. Keep the same  
name (for ease)

In the folder, open terminal and run the following  
code

```
pyrcc5 icons.qrc -o icons_rc.py
```