



PUBLIC LIBRARY SYSTEM

Documentation

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Group info

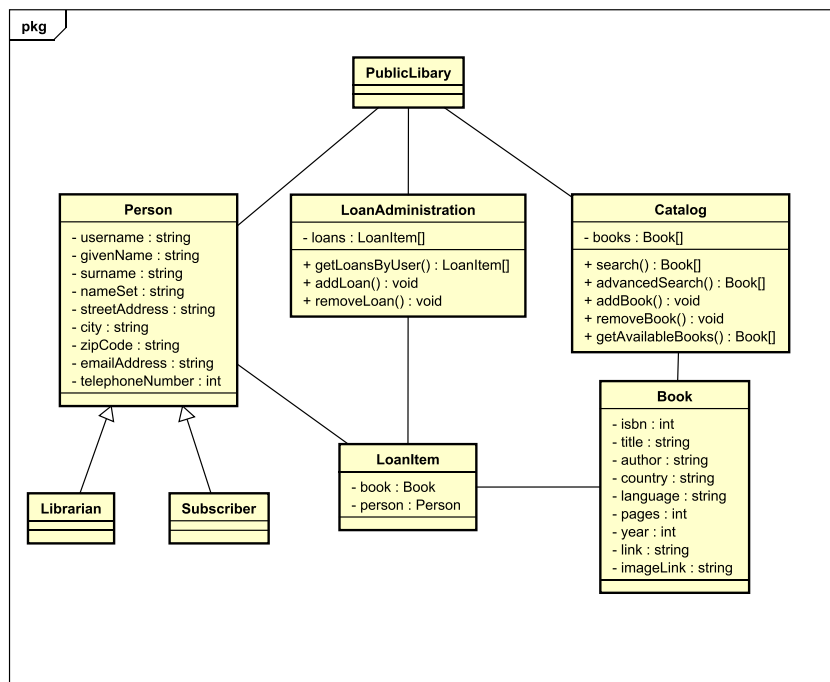
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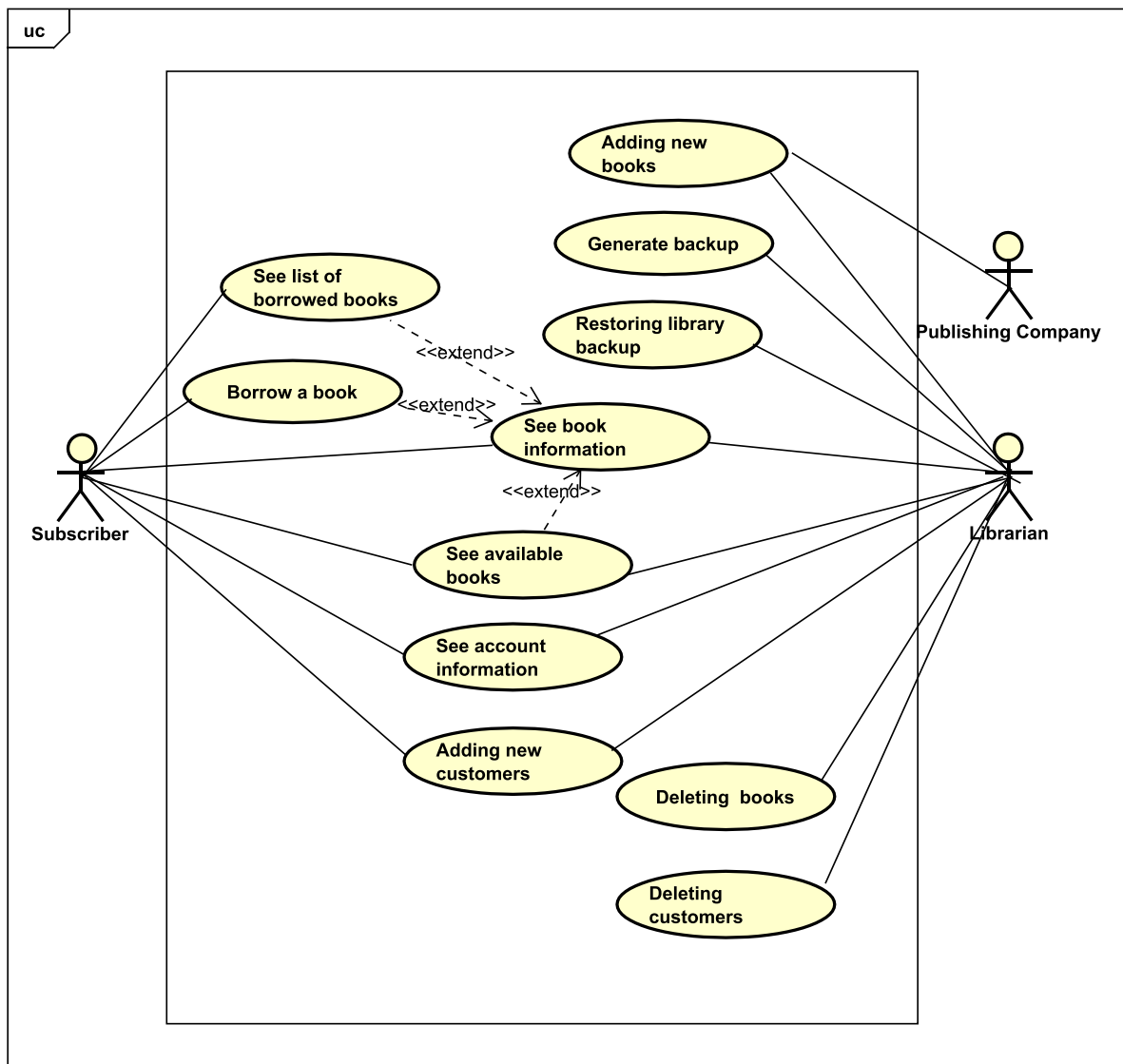
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Requirements Specification

Class Diagram



Use Case Diagram



User Manual

Required programs

Database Maintenance

For maintaining the database, the use of the free program <https://sqlitebrowser.org/> is recommended. This program is available on Windows, Mac OS, and most Linux distributions.

Running the program

At least python 3.8 has to be installed on the system with the standard library.

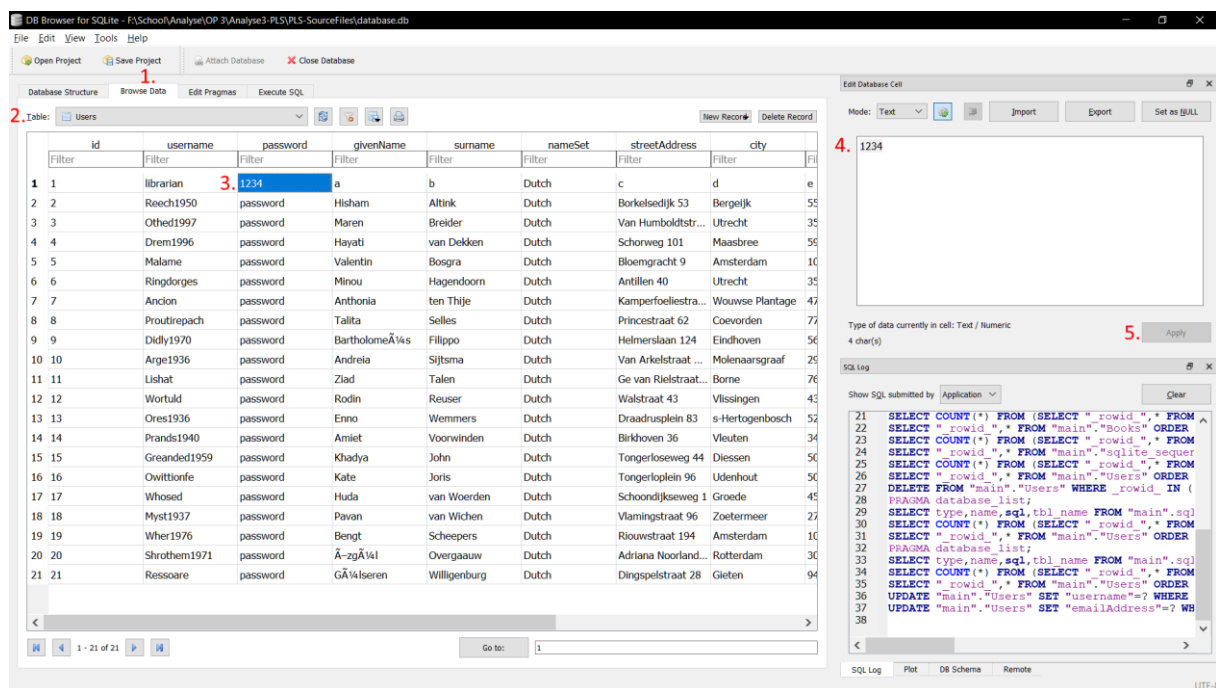
First Setup

The included database contains 1 librarian account, 20 user accounts and 100 books.

It is recommended to change the information of the librarian account in the database with the tool recommended for database maintenance.

It is also recommended to change the password of the librarian account before running the system. To do so, follow the following steps:

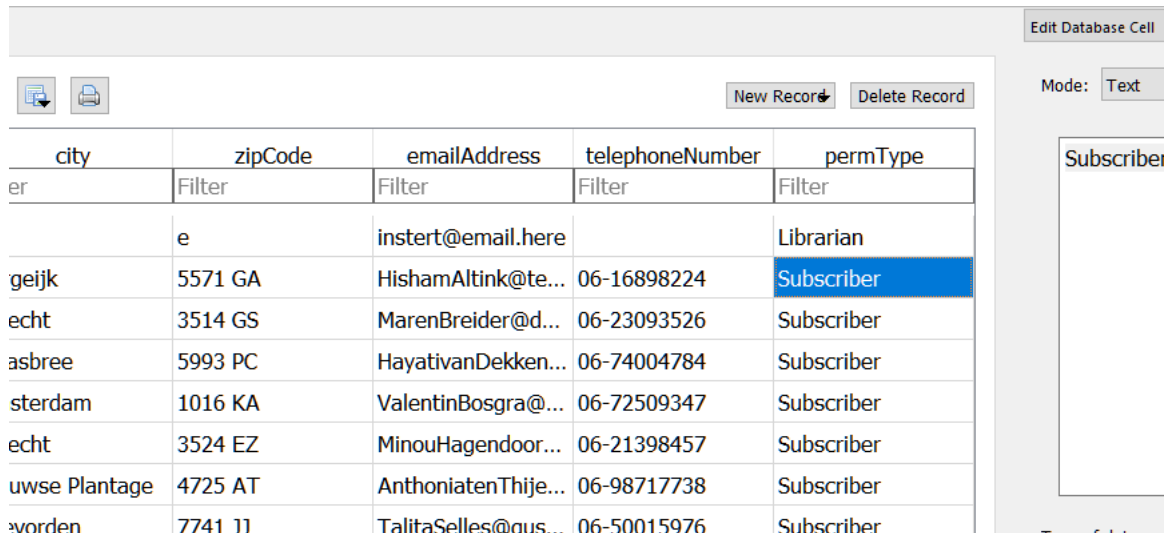
1. Open the “database.db” file
2. Navigate to the Data Browser (number 1) near the top left corner of the application.
3. In the table dropdown, select the Users table (number 2).
4. Select the password field of the first record, this should be the librarian account (number 3).
5. Change the password from “1234” to anything you like, using the text field near the top right (number 4).
6. When you have entered a new password, click on the apply button (number 5)
7. Make sure to save the database. The program will **NOT** run if you don’t do this. To save the database, press CTRL+S on Windows or Linux and CMD+S on Mac OS.



Changing account types

To change the account type. Open the “database.db” file with the tool recommended for database maintenance and go to the users table. (For basic instructions on how to use the recommend tool, see First Setup).

To change a **Subscriber** account to a **Librarian** account or the other way round, change the permType field in the users record accordingly.



city	zipCode	emailAddress	telephoneNumber	permType
er	Filter	Filter	Filter	Filter
	e	instert@email.here		Librarian
geijk	5571 GA	HishamAltink@te...	06-16898224	Subscriber
echt	3514 GS	MarenBreider@d...	06-23093526	Subscriber
asbree	5993 PC	HayativanDekken...	06-74004784	Subscriber
sterdam	1016 KA	ValentinBosgra@...	06-72509347	Subscriber
echt	3524 EZ	MinouHagendoor...	06-21398457	Subscriber
uwse Plantage	4725 AT	AnthoniatenThije...	06-98717738	Subscriber
svorden	7741 JJ	TalitaSelles@aus...	06-50015976	Subscriber

Using the Public Library System

1. Navigate your terminal to the location of the PLS.py file
2. Type “python PLS.py” in your terminal. You will be met with this screen.

```
Command Prompt - python PLS.py x + :
===== Main Menu =====
Welcome to the Public Library System.
0: Register Account
1: Logon
2: About
3: Exit
Select an option by entering it's number and pressing return.
_
```

3. In this screen you can create a new account, logon with an existing account, view the about page or exit the app. Make your choice by typing the number of the option and press return.
4. Once logged in, follow the instructions on the screen.

Loaning a book

This part of the manual assumes you are logged in as a Subscriber.

1. Select option 0 in the main menu

```
Command Prompt - python PLS.py X + :
===== Main Menu =====
Welcome Enno Wemmers (Subscriber) to the Public Library System.
0: List Book Titles
1: List My Loans
2: View Account Info
3: About
4: Exit
Select an option by entering it's number and pressing return.
```

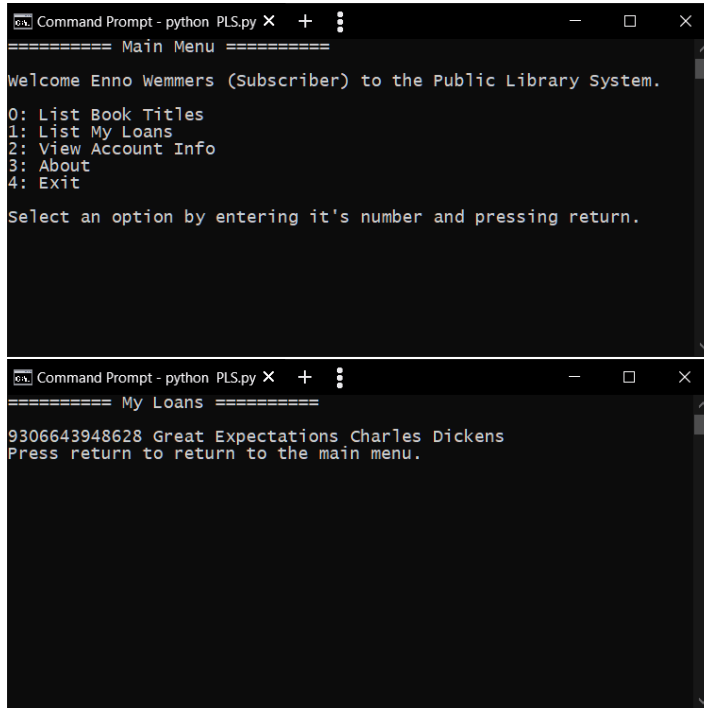
2. Select a book from the list

```
Command Prompt - python PLS.py X + :
91: The Golden Notebook - Doris Lessing
92: Great Expectations - Charles Dickens
93: Children of Gebelawi - Naguib Mahfouz
94: Moby-Dick - Herman Melville
95: 1984 - George Orwell
96: Het gouden ei - Tim Krabbé
97: The Life And Opinions of Tristram Shandy - Laurence Sterne
98: Nostromo - Joseph Conrad
99: Gulliver's Travels - Jonathan Swift
100: Things Fall Apart - Chinua Achebe
101: Return to Main Menu
Select an option by entering it's number and pressing return.
```

3. To loan the book, enter 0 and press return

```
Command Prompt - python PLS.py X + :
ISBN:      9306643948628
Title:     Great Expectations
Author:    Charles Dickens
Country:   United Kingdom
Language:  English
Pages:     194
Year:      1861
Website:   https://en.wikipedia.org/wiki/Great_Expectations
Image:     images/great-expectations.jpg
0: Loan Book
1: Return to book list
Select an option by entering it's number and pressing return.
```

4. To view your loans, select 1 in the main menu



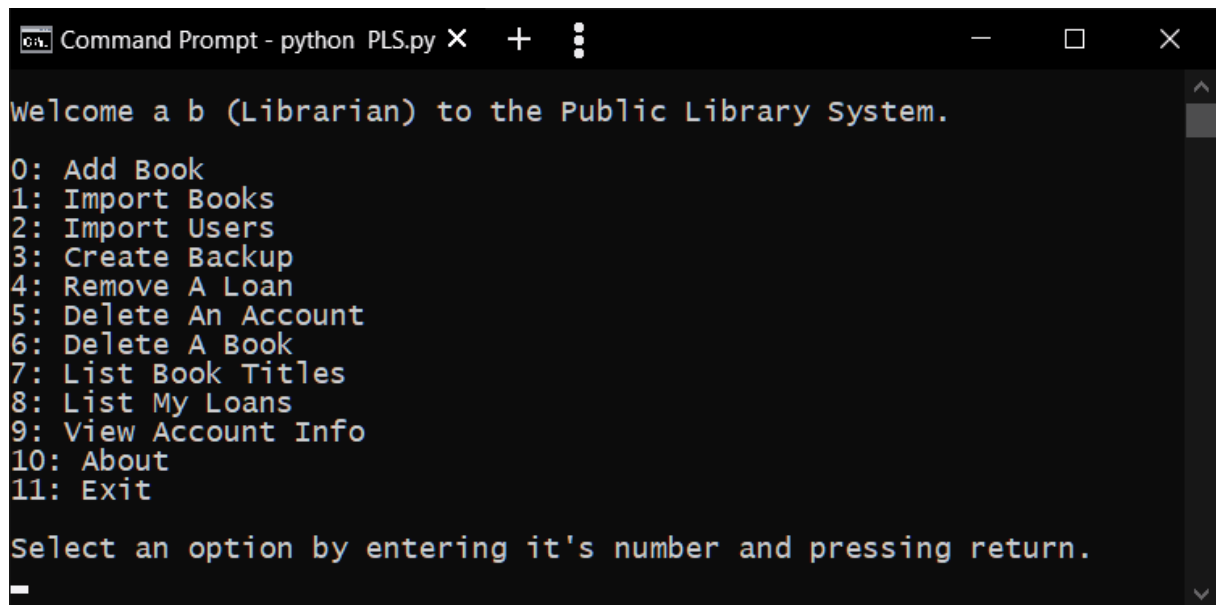
```
Command Prompt - python PLS.py X + ⋮
===== Main Menu =====
Welcome Enno Wemmers (Subscriber) to the Public Library System.
0: List Book Titles
1: List My Loans
2: View Account Info
3: About
4: Exit
Select an option by entering it's number and pressing return.

Command Prompt - python PLS.py X + ⋮
===== My Loans =====
9306643948628 Great Expectations Charles Dickens
Press return to return to the main menu.
```

Librarian Options

This part of the manual assumes you are logged in as a Librarian.

The librarian has too many options to cover, all options contain in program instructions. In there figure below you can see an overview of all the options librarians have.



```
Command Prompt - python PLS.py X + ⋮
Welcome a b (Librarian) to the Public Library System.
0: Add Book
1: Import Books
2: Import Users
3: Create Backup
4: Remove A Loan
5: Delete An Account
6: Delete A Book
7: List Book Titles
8: List My Loans
9: View Account Info
10: About
11: Exit
Select an option by entering it's number and pressing return.
_
```