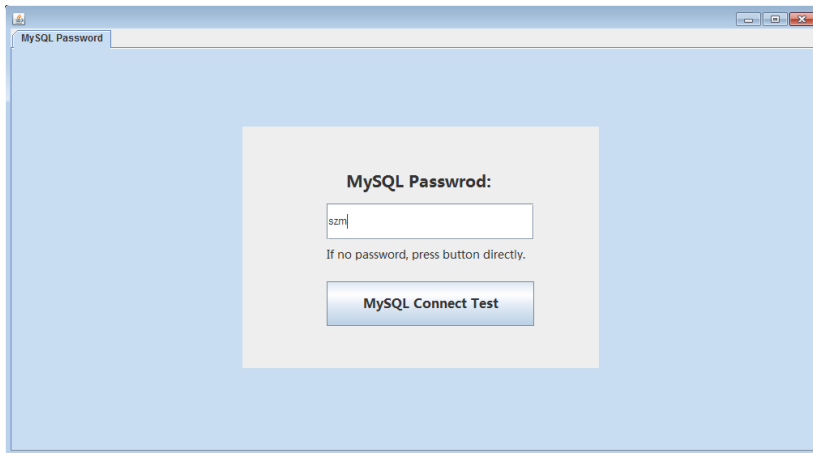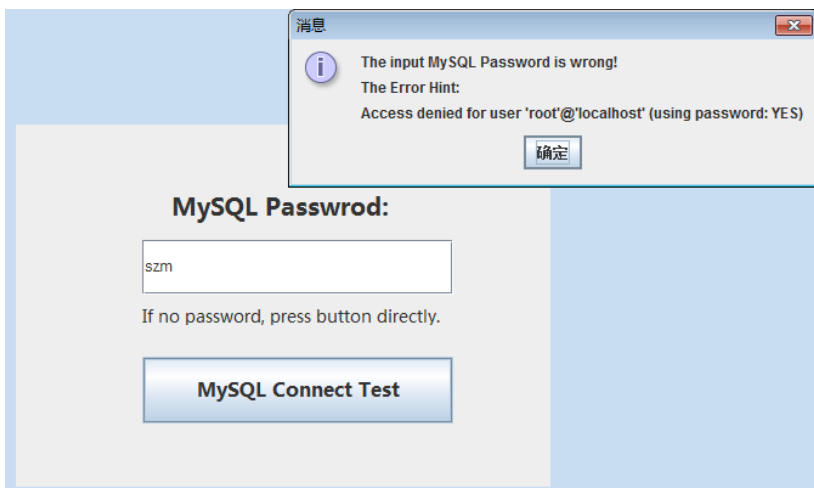# GUI Guide of Library Management System

1. Connect MySQL

(1) The first time you use this software, you need to input your MySQL's Password to connect.

(2) Input is wrong, then pop up warning

(3) If you input your password correctly, it will pop up a successfully hint message box. If there is no password in your MySQL, you directly press the button. Then it will jump to the main page of the software.

2. Book Search

(1) It supports substring matching, e.g. if you input a word "Novel" in Book Title field, it will search all books whose title contains "Novel", and the key work is not case-sensitive.

(2) If you input a ISBN, it will return this book's information.

(3) If you input Auther's part or whole name, it contains the books' information which contain the input name.

Book Title					Book Search
ISBN		Author	Richard Wright		

Search Result Number: 10

Isbn	Title	Author_name	Branch_id	Branch_name	no_of_co...	availability
0060812494	Native Son: And How Bigger Was Born	Richard Wright	1	Oak Lawn	1	1
0060812494	Native Son: And How Bigger Was Born	Richard Wright	2	Lakewood	1	1
0060812494	Native Son: And How Bigger Was Born	Richard Wright	3	Grauwyler Park	1	1
0060812494	Native Son: And How Bigger Was Born	Richard Wright	4	Highland Hills	1	1
0060812494	Native Son: And How Bigger Was Born	Richard Wright	5	Audelia Road	1	1
0060812508	Black Boy (American Hunger : A Record Of Childhood And Youth)	Richard Wright	1	Oak Lawn	1	1
0060812508	Black Boy (American Hunger : A Record Of Childhood And Youth)	Richard Wright	2	Lakewood	1	1
0060812508	Black Boy (American Hunger : A Record Of Childhood And Youth)	Richard Wright	3	Grauwyler Park	1	1
0060812508	Black Boy (American Hunger : A Record Of Childhood And Youth)	Richard Wright	4	Highland Hills	1	1
0060812508	Black Boy (American Hunger : A Record Of Childhood And Youth)	Richard Wright	5	Audelia Road	1	1

3. Checking Out/In Books

The whole GUI of this page like following:

Book Search | Checking OUT / IN Books | Borrower Management | Fines

Book ISBN

Card No.   Search   Checking In

Borrower

ISBN

Branch ID

Card No.

Checking Out

截图

3.1 Checking Out Books

(1)You input information, if checking out correctly, it will pop up a successful message.

(2) If there are no more book copies available at the input Library Branch, then the checkout should fail and return a useful error message.

(3) Each BORROWER is permitted a maximum of 3 BOOK_LOANS, if you exceed this limit, it will pop up a hint message.

(4) If a book has been check out, when you search this book on book search page, you will find number of this books' availability has been reduced "1", in following case, the number of books' availability has been zero.

Isbn	Title	Author_name	Branch_id	Branch_name	no_of_copies	availability
0878339175	A.D.D. On The Job: Making Your A.D.D. Work For You	Lynn Weiss	1	Oak Lawn	1	1
0878339175	A.D.D. On The Job: Making Your A.D.D. Work For You	Lynn Weiss	2	Lakewood	1	1
0878339175	A.D.D. On The Job: Making Your A.D.D. Work For You	Lynn Weiss	3	Grauwyler Park	1	0
0878339175	A.D.D. On The Job: Making Your A.D.D. Work For You	Lynn Weiss	4	Highland Hills	1	1

3.2 Checking In Books

Before checking in books, you can locate BOOK_LOANS tuples by searching on any of book_id, Card_no, and/or any part of BORROWER name. It supports substring matching.

(1) Search by Card_no, it supports substring matching.

Book ISBN						
Card No.	ID000158		**Search**		**Checking In**	
Borrower						

Loan_id	Isbn	Branch_id	Card_no	Date_out	Due_date	Date_in
3	0312979096	2	ID000158	2015-09-24	2015-10-07	2015-10-05
396	2253040940	3	ID000158	2016-01-07	2016-01-20	2016-01-13
676	0312979096	2	ID000158	2016-03-24	2016-04-07	
677	0878339175	3	ID000158	2016-03-25	2016-04-08	
678	0440225299	1	ID000158	2016-03-25	2016-04-08	

(2) Search by any part of BORROWER name

Book ISBN						
Card No.			**Search**		**Checking In**	
Borrower	George					

Loan_id	Isbn	Branch_id	Card_no	Date_out	Due_date	Date_in
4	0878339175	3	ID000558	2015-09-24	2015-10-07	2015-10-03
214	0380975068	4	ID000786	2015-11-19	2015-12-02	2015-11-26
385	0307968219	3	ID000786	2016-01-04	2016-01-17	2016-01-17

(3) Search by Book's ISBN

Book ISBN	0878339175					
Card No.			**Search**		**Checking In**	
Borrower						

Loan_id	Isbn	Branch_id	Card_no	Date_out	Due_date	Date_in
4	0878339175	3	ID000558	2015-09-24	2015-10-07	2015-10-03
677	0878339175	3	ID000158	2016-03-25	2016-04-08	

(4) Select the book, then press the checking in button, if successful, it will pop up a hint.

4. Borrower Management

(1) Input the new borrower's information, if successful, it will pop up a hint and borrower's new Card No..

(2) If a new borrower is attempted withe same SSN, it will pop a useful error message.

5. Fines

(1) If you press the Update/Refresh FINES button, it will display the result.

(2) If you select the checking box, it will filter out previously paid fines, in the following case, the search result number becomes from 77 to 64.

Card_no	SUM_Fine_Amount	paid
ID000041	0.25	0
ID000107	0.25	0
ID000131	0.25	0
ID000134	0.25	0
ID000185	0.25	0
ID000196	0.25	0
ID000197	0.25	0
ID000220	0.25	0
ID000224	0.25	0
ID000260	0.25	0
ID000319	0.25	0
ID000338	0.25	0
ID000343	0.25	0
ID000344	0.25	0
ID000345	0.25	0
ID000360	0.25	0
ID000364	0.25	0
ID000368	0.25	0

Search Result Number: 64

(3) You can also search by card number.

Card No. : ID000197

Card_no	SUM_Fine_Amount	paid
ID000197	0.25	0

Search Result Number: 1

(4) Assuming the borrower has paid the fines, you need to select the book in the search result, then press the "Enter Paid" button.

(5) If the book has been paid, namely, "paid =1", it will pop up a warning message.

(6) You can also press the "Update FINES Record" button to update a FINES record where paid == TRUE. In the following case, you change the SUM_Fine_Amount number from 0.25 to 6.25, if successful, it will pop up a hint. Then you press the "Update/Refresh FINES" button, it will show that the number has been changed.

Card No. :

☐ Filter Out Paid Fines   **Update/Refresh FINES**   **Enter Paid**   **Update FINES Record**

Card_no	SUM_Fine_Amount	paid
ID000120	0.25	1
ID000131	0.25	0
ID000134	0.25	0
ID000164	6.25	1
ID000185	0.25	0
ID000196		
ID000197		
ID000220		
ID000224		
ID000260		
ID000319		
ID000338		
ID000343	0.25	1

消息

(i) **Update FINES Record Successfully!**

确定