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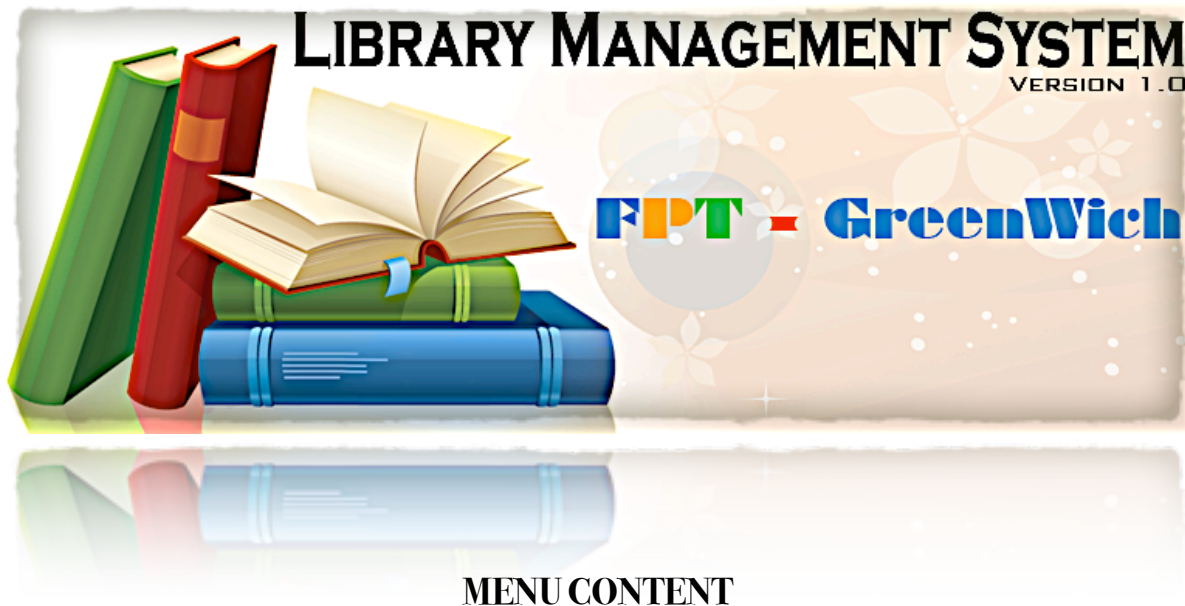
# Library Management System

## User manual document

Version 1.0

Group 01 - GC0502 • FPT-GreenWich • January 21, 2011

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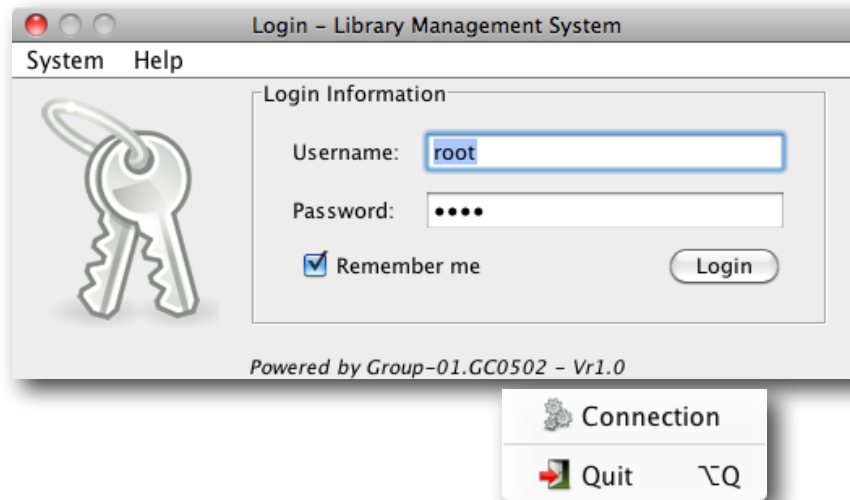


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# I - CONNECTION & LOGIN

How to connect to database and login to system?

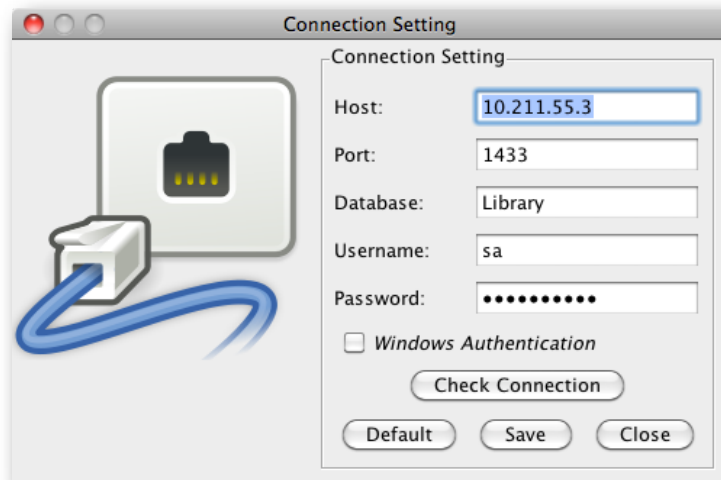


## 1.Login dialog with two menu item

When you start program a splash screen will display and load all component of program. After that, a [login dialog](#) will display. First, you need config connection setting to connect to library database.

Connection setting menu

Select "[Connection](#)" menu item to open connection setting:



## 2.Connection setting dialog

Now you need fill all field [connection setting dialog](#):

+Host: Your host address. You can use IP or domain (Example: localhost or 10.0.0.2).

+Port: Your port.

+Database: Database of your system (Default Library).

+Username: Username to login your database.

+Password: Your password of username

+Check the box if you want login with windows authentication.

- Check connection will have value (OK or Error).
- Default will fill all field with default value.
- Save is save your config. Your config will be save on "**Config.properties**" file.
- Close is cancel your setting.

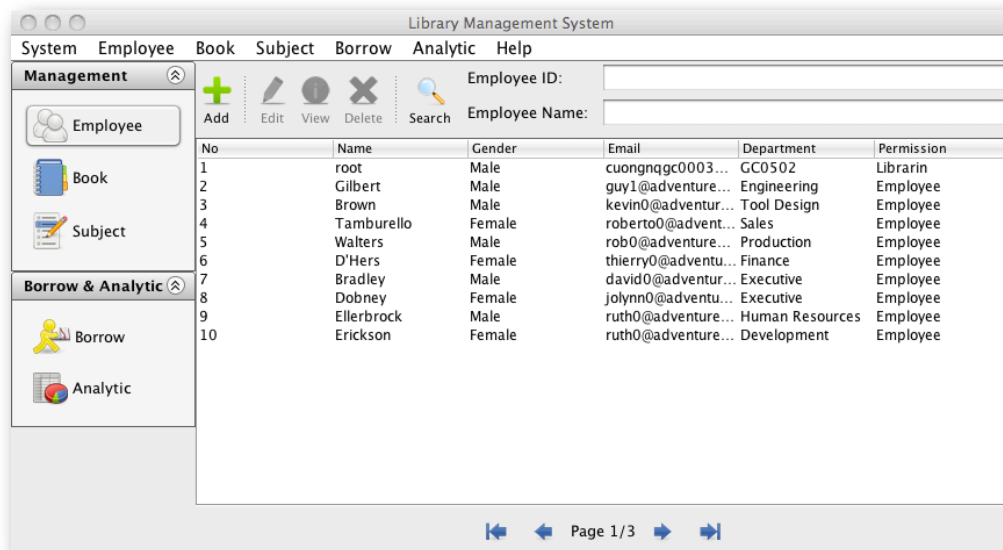
Now come back to [login dialog](#) and enter your username and password to login to system.

Check “**Remember me**” box if you want system remember your username and password for time after.

**Note:** Default username & password is “**root**” without quotes.

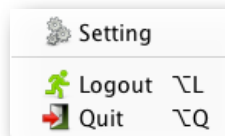
## II - MAIN PROGRAM USE

How to use system? How/What does it look like?



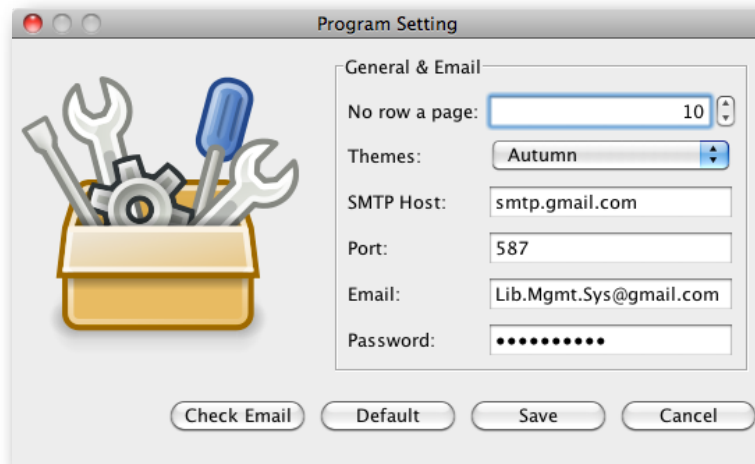
### Main program

Left side is menu of [program](#) or you can you menu bar in the top.



### Menu setting

When you select [menu setting](#) a [program setting](#) dialog will display.



### 1.Program setting

At [program setting](#) you can set:

+No row a page: Number row display on table.

+Theme: Skin or theme (Look and feel) for program.

- Email setting:

+SMTP host: Simple Mail Transfer Protocol host.

+Port: Host port.

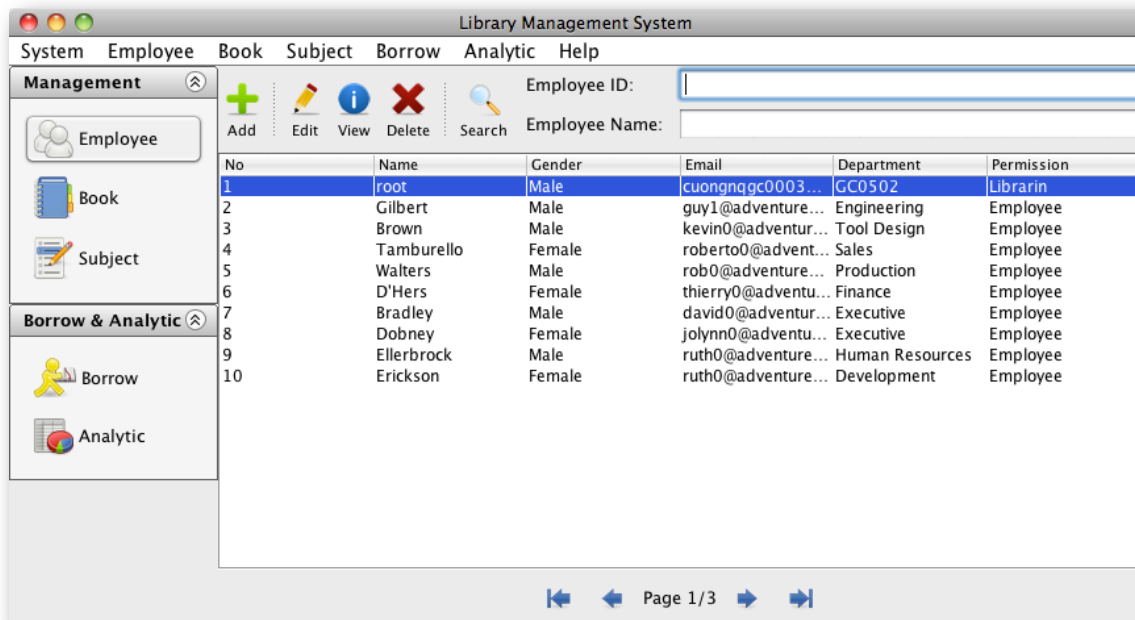
+Email: Email will use to send alert.

+Password: Password of email.

+ Check email will have value (Successful or Failed).

### III - EMPLOYEE MANAGEMENT

How can I add, edit, view, delete or search an employee?



#### Employee management

At [employee management panel](#), you can click to **add icon** to add new an employee or you can select an employee from table to select edit, view or delete this employee. You can [search an employee](#) by id or name field text and click search icon.

The dialog box is titled 'Add An Employee Or Librarian'. It contains a form for 'Employee Information' with the following fields: Name (text box), Gender (radio buttons for Male and Female), Date of birth (text box with a dropdown arrow), Address (text box), Password (text box), Email (text box), Phone (text box), Department (text box), and Permission (dropdown menu with 'Librarian' selected). At the bottom are 'Add' and 'Cancel' buttons. On the left side of the dialog is a large icon of a person with a blue plus sign.

#### 1. Add new an employee

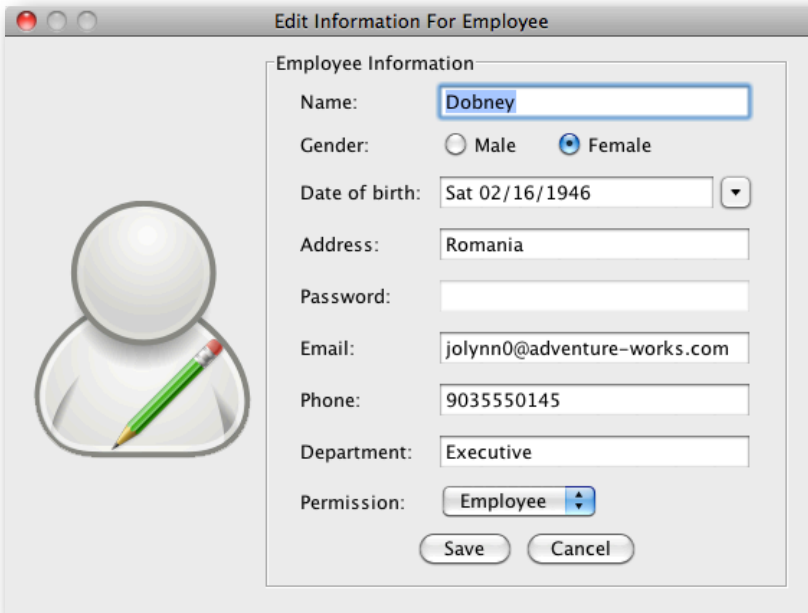
Click "Add" at employee panel, a dialog will display. Now you just type and fill all text box and click "Add" button.

When add button pressed, all text field will validating. With permission is "Librarian" you need enter password at password field. If you field is validated, new employee will add to database.

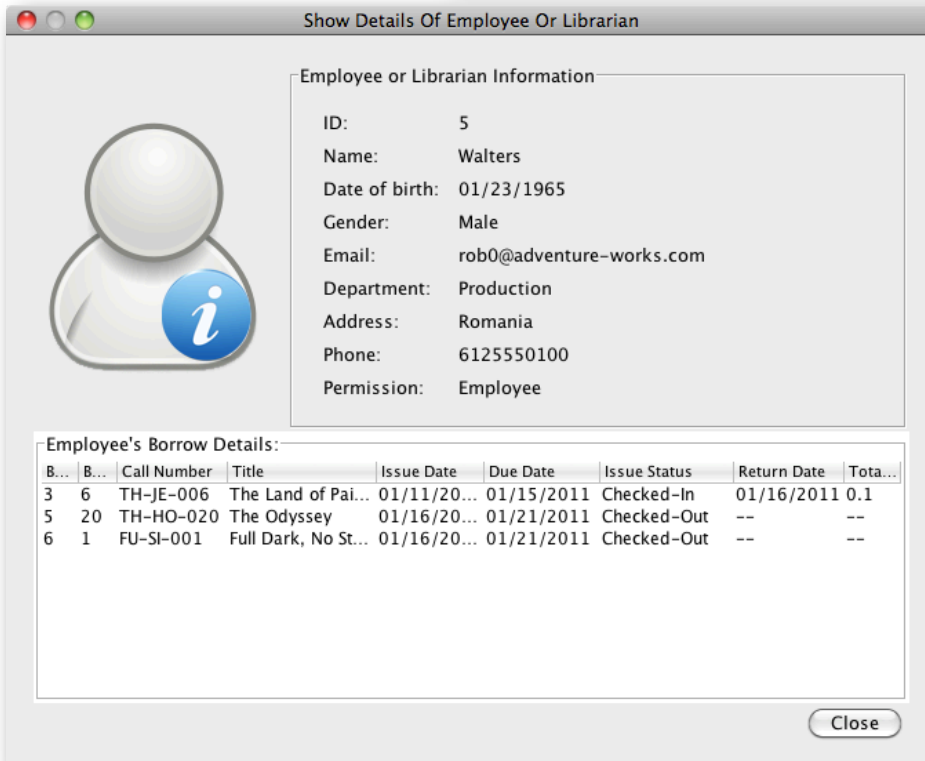
## 2. Edit an employee

Choice an employee row on [employee management panel](#) and click button “**Edit**” a dialog will open. All old information of employee will fill all field text. You can change every info. When add button pressed, all text field will validating. With permission is “Librarian” you need enter password at password field.

If you field is validated, employee information will update to database.



The dialog box titled "Edit Information For Employee" contains a form for updating employee data. On the left is a placeholder icon of a person with a pencil. The form fields are: Name (Dobney), Gender (Female selected), Date of birth (Sat 02/16/1946), Address (Romania), Password (empty), Email (jolynn0@adventure-works.com), Phone (9035550145), Department (Executive), and Permission (Employee). At the bottom are "Save" and "Cancel" buttons.



The dialog box titled "Show Details Of Employee Or Librarian" displays employee information and borrow details. On the left is a placeholder icon of a person with an information symbol. The "Employee or Librarian Information" section lists: ID: 5, Name: Walters, Date of birth: 01/23/1965, Gender: Male, Email: rob0@adventure-works.com, Department: Production, Address: Romania, Phone: 6125550100, and Permission: Employee. Below is a table titled "Employee's Borrow Details:".

B...	B...	Call Number	Title	Issue Date	Due Date	Issue Status	Return Date	Tota...
3	6	TH-JE-006	The Land of Pai...	01/11/20...	01/15/2011	Checked-In	01/16/2011	0.1
5	20	TH-HO-020	The Odyssey	01/16/20...	01/21/2011	Checked-Out	--	--
6	1	FU-SI-001	Full Dark, No St...	01/16/20...	01/21/2011	Checked-Out	--	--

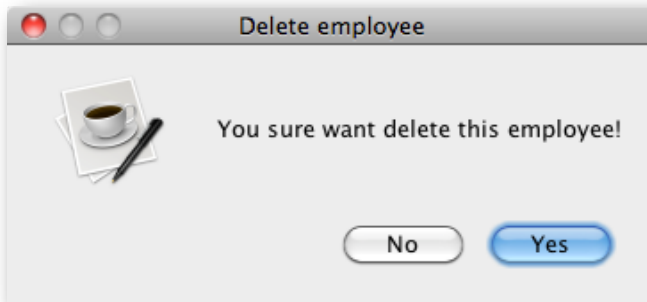
A "Close" button is at the bottom right.

## 3.View an employee

Choice an employee row on [employee management panel](#) and click button “**View**” or **double click** to this row, a dialog will open. You will see all information and all borrow details of this employee.

## 4. Delete an employee

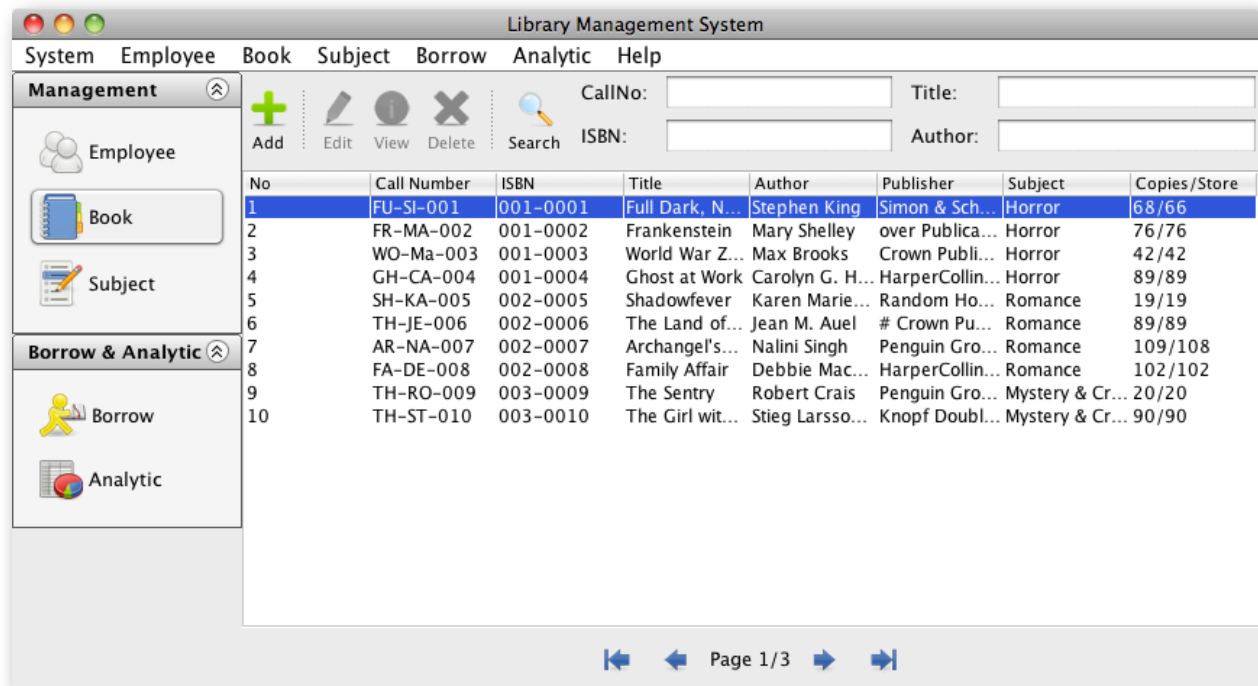
Choice an employee row on [employee management panel](#) and click button “**Delete**” a question panel will display. If you click “**Yes**” system will check borrow details of this employee. If this employee is borrowing a book and doesn't return it. An error message will display, otherwise delete successful message will display.



The dialog box titled "Delete employee" features a coffee cup icon and the text "You sure want delete this employee!". At the bottom are "No" and "Yes" buttons.

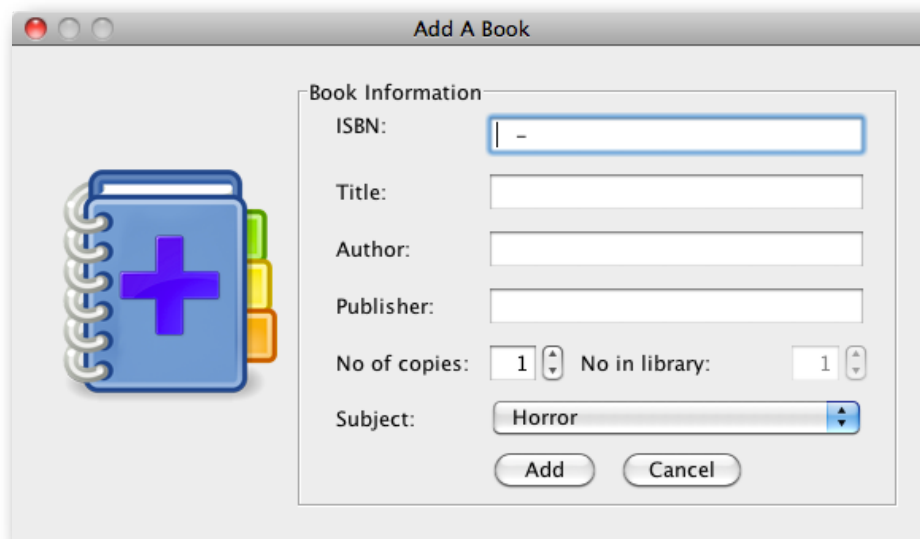
## IV - BOOK MANAGEMENT

How can I add, edit, view, delete or search a book?



### Book management

At [book management](#), you can click to **add icon** to add new a book or you can select a book from table to select edit, view or delete this book. You can [search a book](#) by call number, title, ISBN or author name field text and click search icon.



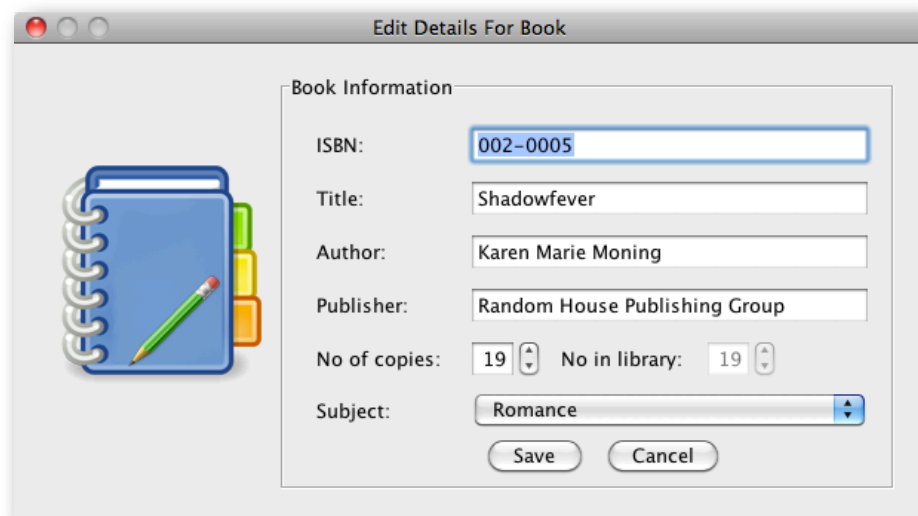
### 1. Add new a book

Click "Add" at book panel, a dialog will display. Now you just type and fill all text box, choice subject and click "Add" button. When add button pressed, all text field will validating. If you field is validated, new book will add to database.



## 2. Edit a book

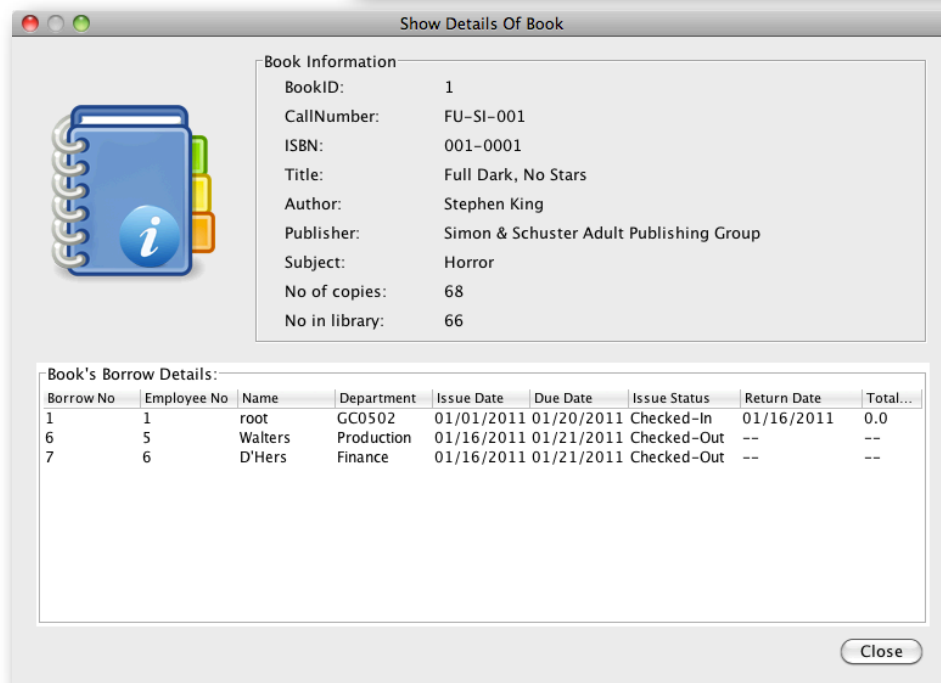
Choice a book on [book management](#) table and click button “**Edit**” a dialog will open. All old information of book will fill all field text. You can change every info. When add button pressed, all text field will validating. If you field is validated, book information will update to database.



The dialog box titled "Edit Details For Book" contains a book icon on the left and a form on the right. The form has the following fields:

- ISBN: 002-0005
- Title: Shadowfever
- Author: Karen Marie Moning
- Publisher: Random House Publishing Group
- No of copies: 19 (with up/down arrows)
- No in library: 19 (with up/down arrows)
- Subject: Romance (with a dropdown arrow)

At the bottom of the form are "Save" and "Cancel" buttons.



The dialog box titled "Show Details Of Book" contains a book icon with an 'i' on the left and a form on the right. The form has the following fields:

- BookID: 1
- CallNumber: FU-SI-001
- ISBN: 001-0001
- Title: Full Dark, No Stars
- Author: Stephen King
- Publisher: Simon & Schuster Adult Publishing Group
- Subject: Horror
- No of copies: 68
- No in library: 66

Below the form is a table titled "Book's Borrow Details:"

Borrow No	Employee No	Name	Department	Issue Date	Due Date	Issue Status	Return Date	Total...
1	1	root	GC0502	01/01/2011	01/20/2011	Checked-In	01/16/2011	0.0
6	5	Walters	Production	01/16/2011	01/21/2011	Checked-Out	--	--
7	6	D'Hers	Finance	01/16/2011	01/21/2011	Checked-Out	--	--

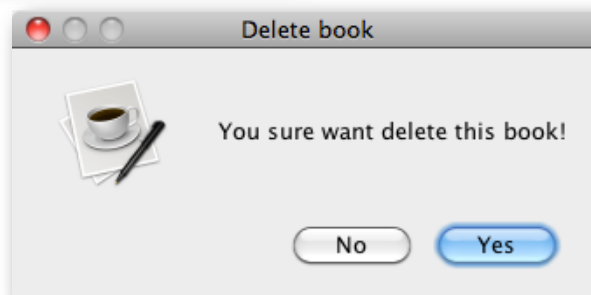
At the bottom right of the dialog box is a "Close" button.

## 3. View a book

Choice a book row on [book management](#) and click button “**View**” or **double click** to this row, a dialog will open. You will see all information and all borrow details of this book.

## 4. Delete a book

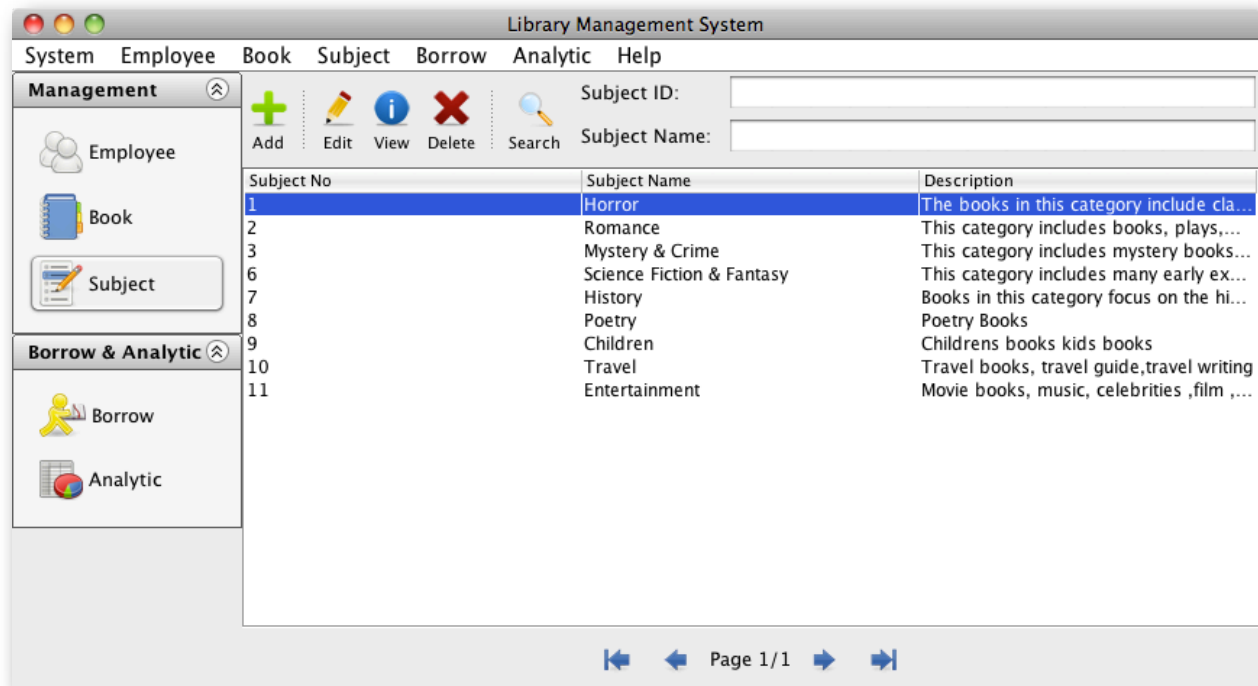
Choice a book row on [book management](#) and click button “**Delete**” a question panel will display. If you click “**Yes**” system will check borrow details of this book. If this book is borrowed by an employee and doesn't returned. An error message will display, otherwise delete successful message will display.



The dialog box titled "Delete book" contains a coffee cup icon on the left and the text "You sure want delete this book!" on the right. At the bottom are "No" and "Yes" buttons.

## V - SUBJECT MANAGEMENT

How can I add, edit, view, delete or search a book?

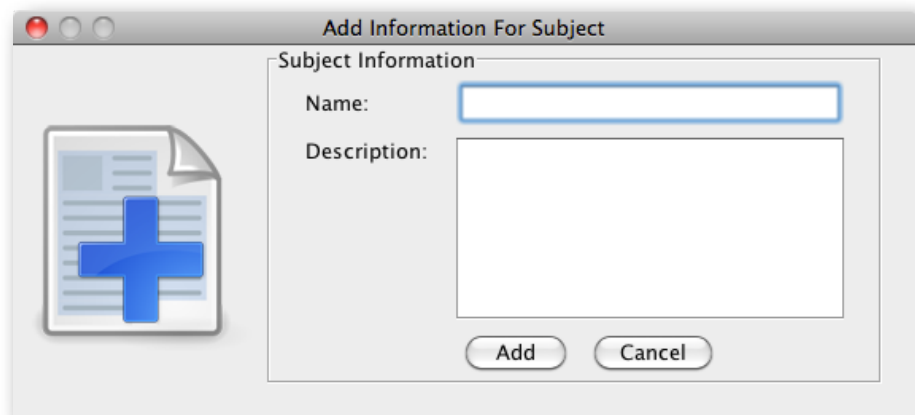


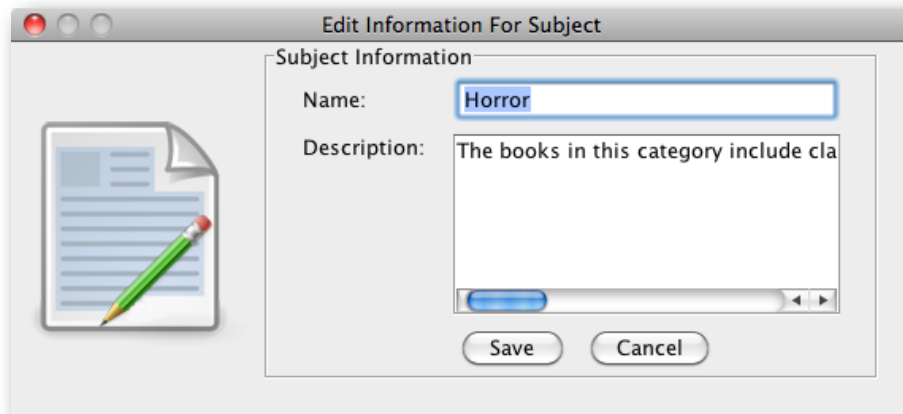
### Subject management

At [subject management](#) you can click to **add icon** to add new a subject or you can select a subject from table to select edit, view or delete this subject. You can [search subject](#) by subject id or subject name field text and click search icon.

#### 1. Add new a subject

Click "Add" at subject panel, a dialog will display. Now you just type and fill all text box and click "Add" button. When add button pressed, all text field will validating. If you field is validated, new subject will add to database.



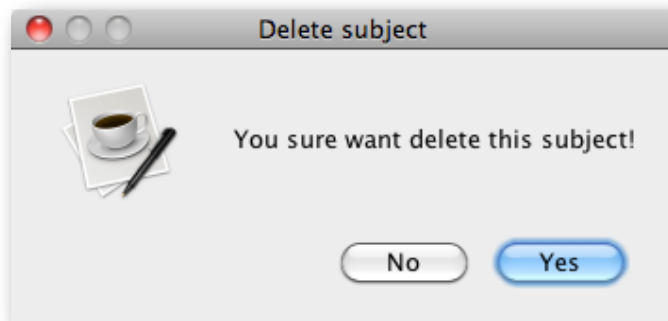
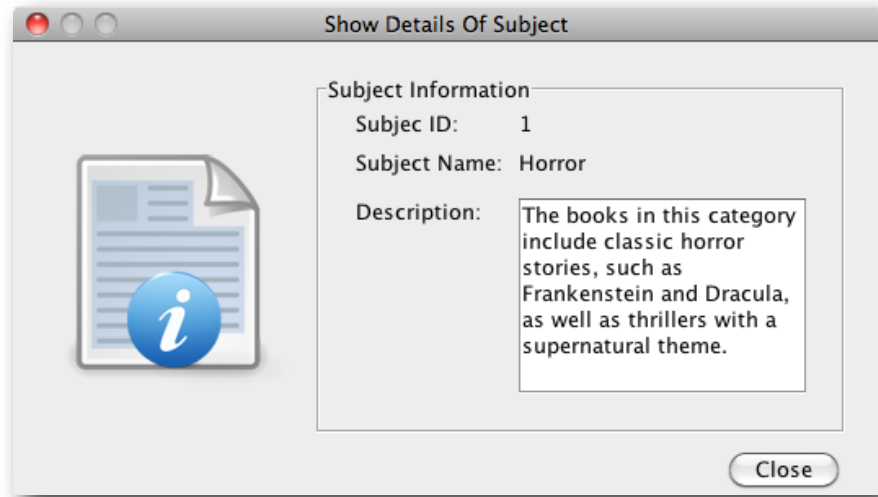


## 2. Edit a subject

Choice a subject on [subject management](#) table and click button “**Edit**” a dialog will open. All old information of subject will fill all field text. You can change every info. When add button pressed, all text field will validating. If you field is validated, subject information will update to database.

## 3. View a subject

Choice a subject on [subject management](#) table and click button “**View**” or **double click** to this row, a dialog will open. You will see all information of subject.



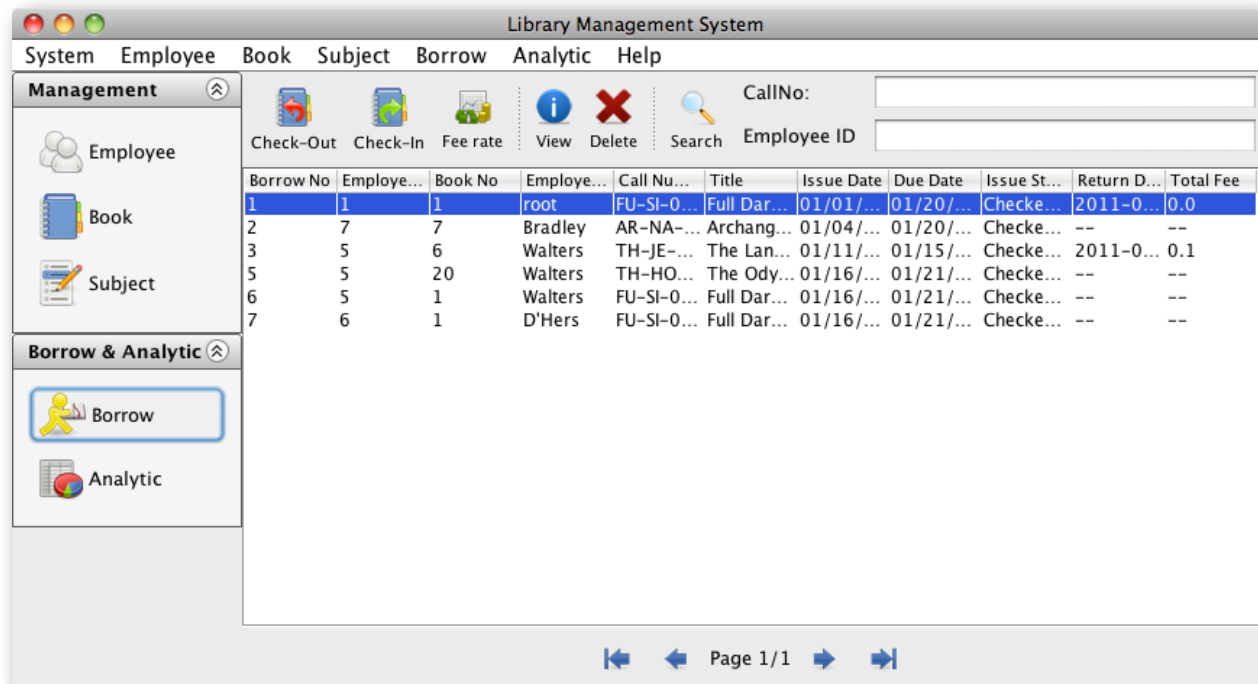
## 4. Delete a subject

Choice a subject on [subject management](#) table and click button “**Delete**” a question panel will display. If you click “**Yes**” system will check book have this subject. If this subject have a book. An error message will display, otherwise delete successful message will display.

## VI - BORROW MANAGEMENT

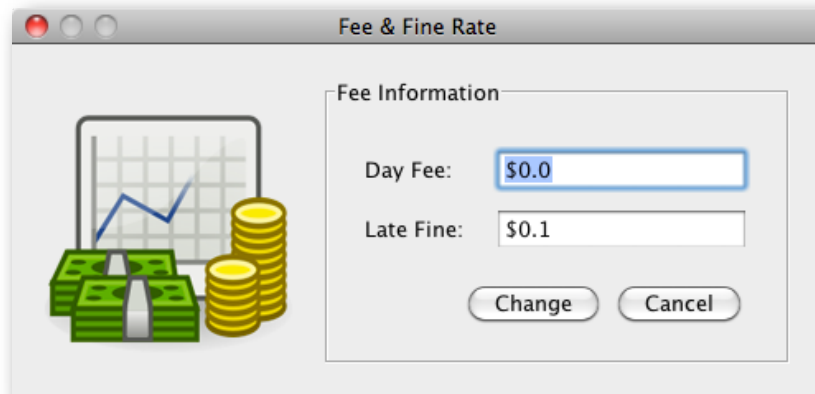
How can I check-out, check-in a book and track the borrow details?

How can I change borrow fee or fine fee?



### Borrow management

At [borrow management](#) you can click to **check-out, check-in icon** to check-out, checkin or you can select a borrow from table to view full details or delete this borrow. You can [search borrow](#) by call number and employee id field text and click search icon.



### 1. Change fee, fine rate

Click to **"Fee rate"** icon and a dialog will open. At this dialog have two text field, you can change day fee is borrow fee or late fee is fine fee. Finally you just click change.

## 2. Check-out

Click “**Check-out**” icon at borrow panel and a dialog will open.

First, you need search book to check out, when found **double click** to this book to select. Book selected will display on check-out table.

Second, you need find employee to check-out. Similar search book, you just search employee and **double click**. Employee info will display on right panel.

Finally, you need choice issue-date and due-date and click “**Check-out**” button.

**Book Search**

CallNo:  Title:  Frankenstein

ISBN:  Author:

**Book Information**

ID	Call Nu...	ISBN	Title	Author	Publisher	Subject	Copies/...
2	FR-MA-...	001-00...	Franken...	Mary Sh...	over Public...	Horror	76/76

**Employee Search**

Emp ID:  Emp Name:  Ellerbrock

ID: 9  
Name: Ellerbrock  
Date of birth: 07/06/1946  
Gender: Male  
Department: Human Resources  
Address: Italy  
Phone: 145550130  
Permission: Employee

**Check-Out**

Book No	Call Number	ISBN	Title	Author	Publisher
2	FR-MA-002	001-0002	Frankenstein	Mary Shelley	over Public...

**Check-Out Information**

Issue Date:  Sun 01/16/2011  
Due Date:  Fri 01/21/2011  
Fee: \$0.0/Day | \$0.1/Late Day

**Check Out** **Cancel**

**Borrow Search**

Borrow ID:

**Book Search**

CallNo:  Title:  Frankenstein

ISBN:  Author:

**Borrow Information**

B...	...	Call Num...	Title	Auth	Publisher	Due Date
8	9	2	FR-MA-0...	Frankenstein	Mary Shell...	over Publicati...

**Employee Information**

Emp ID:  Emp Name:  Ellerbrock

ID: 9  
Name: Ellerbrock  
Date of birth: 07/06/1946  
Gender: Male  
Department: Human Resources  
Address: Italy  
Phone: 145550130  
Permission: Employee

**Check-In**

B...	B...	Call Number	Title	Day Borro...	Day Late/Fine	Total Fee
8	2	FR-MA-002	Frankenstein	0/0.0	0/0	0.0

**Check-In Information**

Issue Date:  Sun 01/16/2011  
Return Date:  Sun 01/16/2011  
Fee: \$0.0/Day | \$0.1/Late Day

**Check In** **Cancel**

## 3. Check-in

Click “**Check-in**” icon at borrow panel and a dialog will open.

First, you need search borrow to check out. You can search by borrow id, by book information or by employee information. Second, when found borrow need to check-in you just **double click** to this borrow detail and right panel will display borrower information. Then book need to return will display on check-in table.

Finally, you need choice return date and click “**Check-in**” button.

#### 4. View a borrow

Choice a borrow on [borrow management](#) table and click button “View” or **double click** to this row, a dialog will open. You will see all information of borrow (Borrower and book).

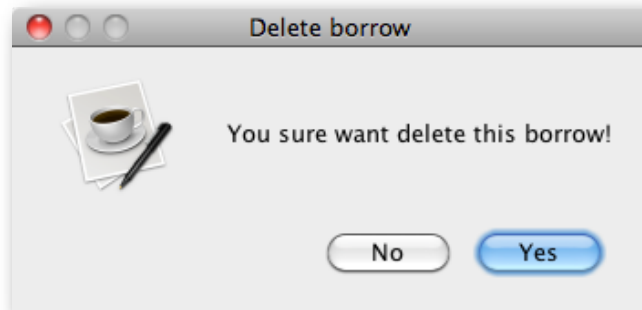


Employee Information	
ID:	7
Name:	Bradley
Date of birth:	04/19/1965
Gender:	Male
Email:	david0@adventure-works.com
Department:	Executive
Address:	Malaysia
Phone:	9135550172
Permission:	Employee

Borrow Information			
Borrow ID:	2	CallNumber:	AR-NA-007
IssueStatus:	Checked-Out	ISBN:	002-0007
IssueDate:	01/04/2011	Title:	Archangel's Consort
DueDate:	01/20/2011	AuthName:	Nalini Singh
Return Date:	--	Publisher:	Penguin Group
Total Fee:	--	Subject:	Romance

Close



You sure want delete this borrow!

No Yes

#### 5. Delete a borrow

Choice a borrow on [borrow management](#) table and click button “Delete” a question panel will display. If you click “Yes” system will check borrow detail. If this borrow haven’t check-in. An error message will display, otherwise delete successful message will display.

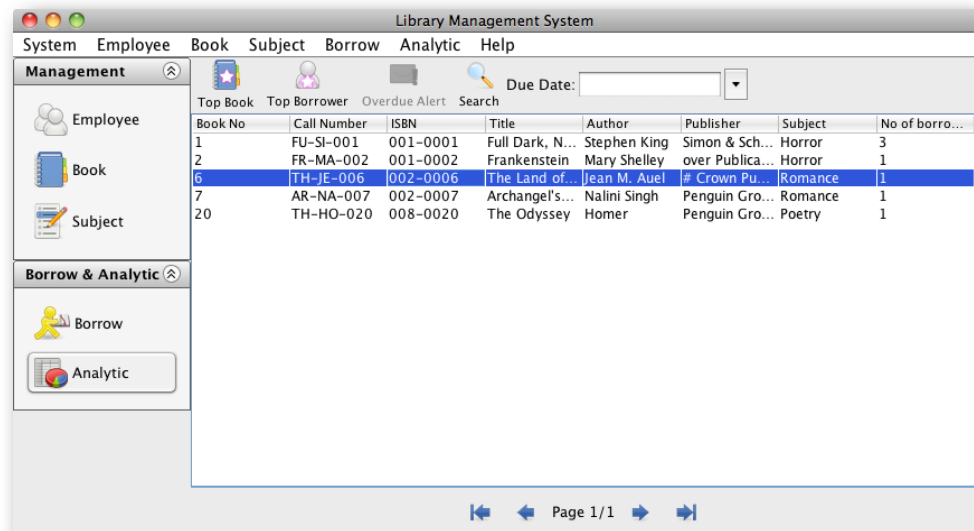
## VII - ANALYTICS

How can I track top book borrowed or track top borrower?

How can I send a notify to borrower?

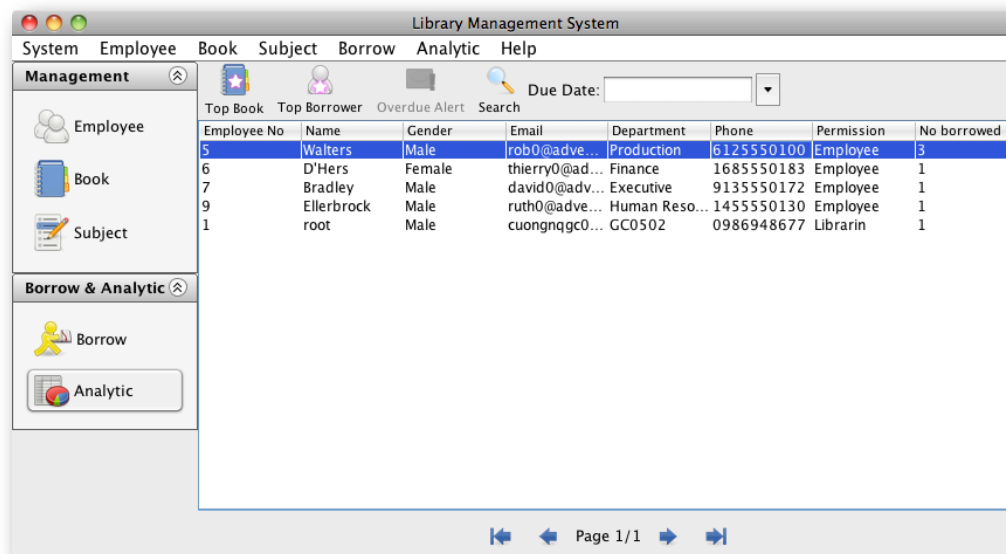
### 1. Top book

At analytic panel you just select **"Top book"** icon. Analytics table will fill all with all book borrowed order by number of borrowed.



The screenshot shows the 'Library Management System' interface. The 'Management' tab is active, and the 'Top Book' icon is selected. The analytics table displays the top books borrowed, ordered by the number of borrowings.

Book No	Call Number	ISBN	Title	Author	Publisher	Subject	No of borro...
1	FU-SI-001	001-0001	Full Dark, N...	Stephen King	Simon & Sch...	Horror	3
2	FR-MA-002	001-0002	Frankenstein	Mary Shelley	over Publica...	Horror	1
6	TH-JE-006	002-0006	The Land of...	Jean M. Auel	# Crown Pu...	Romance	1
7	AR-NA-007	002-0007	Archangel's...	Nalini Singh	Penguin Gro...	Romance	1
20	TH-HO-020	008-0020	The Odyssey	Homer	Penguin Gro...	Poetry	1



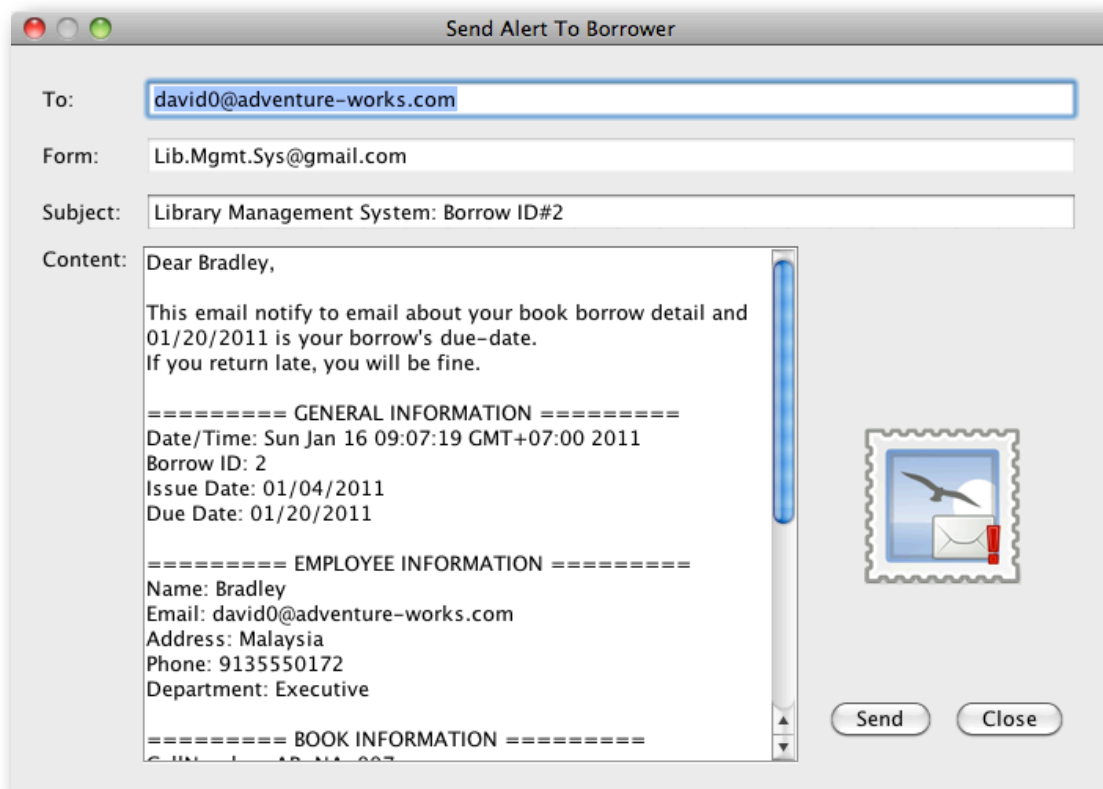
The screenshot shows the 'Library Management System' interface. The 'Management' tab is active, and the 'Top Borrower' icon is selected. The analytics table displays the top borrowers, ordered by the number of books borrowed.

Employee No	Name	Gender	Email	Department	Phone	Permission	No borrowed
5	Walters	Male	rob0@adve...	Production	6125550100	Employee	3
6	D'Hers	Female	thierry0@ad...	Finance	1685550183	Employee	1
7	Bradley	Male	david0@adv...	Executive	9135550172	Employee	1
9	Ellerbrock	Male	ruth0@adve...	Human Reso...	1455550130	Employee	1
1	root	Male	cuongnqgc0...	GC0502	0986948677	Librarian	1

### 2. Top borrower

At analytic panel you just select **"Top borrower"** icon. Analytics table will fill all with all employee order by number book borrowed.

### 3. Send alert email



Send Alert To Borrower

To: david0@adventure-works.com

Form: Lib.Mgmt.Sys@gmail.com

Subject: Library Management System: Borrow ID#2

Content:

Dear Bradley,

This email notify to email about your book borrow detail and 01/20/2011 is your borrow's due-date.  
If you return late, you will be fine.

===== GENERAL INFORMATION =====  
Date/Time: Sun Jan 16 09:07:19 GMT+07:00 2011  
Borrow ID: 2  
Issue Date: 01/04/2011  
Due Date: 01/20/2011

===== EMPLOYEE INFORMATION =====  
Name: Bradley  
Email: david0@adventure-works.com  
Address: Malaysia  
Phone: 9135550172  
Department: Executive

===== BOOK INFORMATION =====  
SUMMARY: AD-111-001

Send Close

You need search borrower checked-out by due-date. At the list of borrow on analytic table you need select a borrow and click “**Overdue alert**” and a dialog will open. Now all information of borrow will fill up on content and employee email automatic typed on “To:”. You can edit that.  
Finally click “**Send**” button and email is sent. If any error display may be your email config doesn’t correct, otherwise a send successful message will display.

*/\*END\*/*