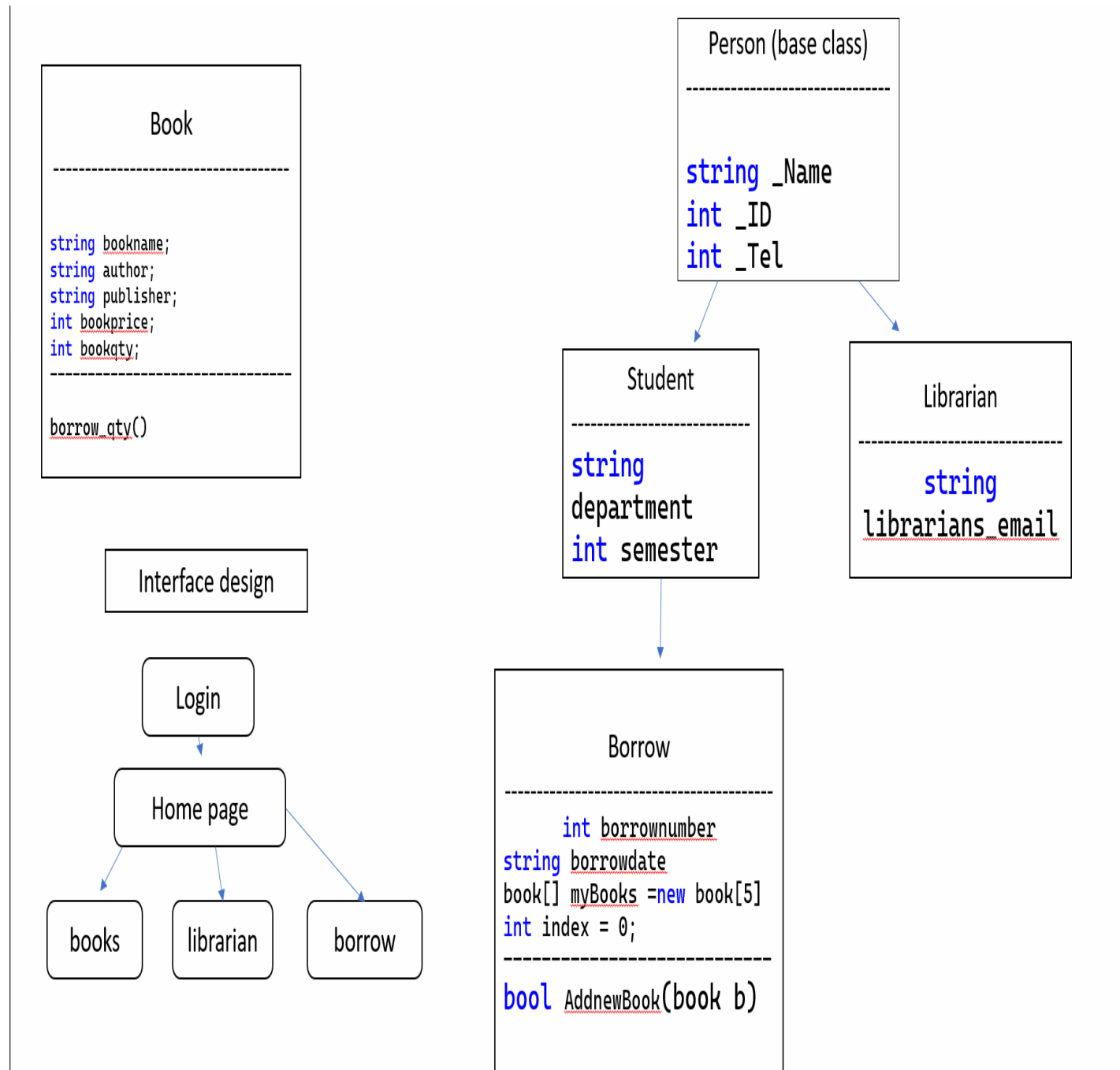


Name :Osama Hisham Mohamed Azab

ID:20100948



## Class person: (Base Class)

Have 3 private variables \_Name(string) , \_ID(int) , \_\_Tel(int)

Have 2 constructors default and initialize constructor

Have 3 public properties (Name, ID,Tel) get and set for all variables (\_Name,\_ID,\_Tel)

\*\*\*\*\*

## Class student:(Child class and superclass for Borrow)

Have 2 private variables department(string), semester(int)

Have 2 constructors default and initialize constructor

Have 2 public properties (Department,Semester) get and set for all variables (Department,Semester)

\*\*\*\*\*

## Class librarian:(Child class)

Have 1 private variable librarians\_email(string)

Have 2 constructors default and initialize constructor

Have 1 public properties Librarians\_email get and set for this variable

---

## Class book

Have 5 private variables

bookname(string),author(string),publisher(string),bookprice(int) and bookqty(int).

Have 2 constructors default and initialize constructor

Have 5 properties Bookname, Author, Publishe, Bookprice and Bookqty.

Have 1 void method called borrow\_qty() which decrement bookqty by 1.

\*\*\*\*\*

Class Borrow:(Child class or subclass of student)

Have 2 private variable borrownumber(int) and borrowdate(string)

In this class we created an object by calling class book ant the my books contain array of 5(composition).

Have 2 constructors default and initialize constructor.

Have 1 bool method called AddnewBook(book b) which let the student borrow book up to max 4 books and when calling this method bookqty decrease by calling b.borrow\_qty()

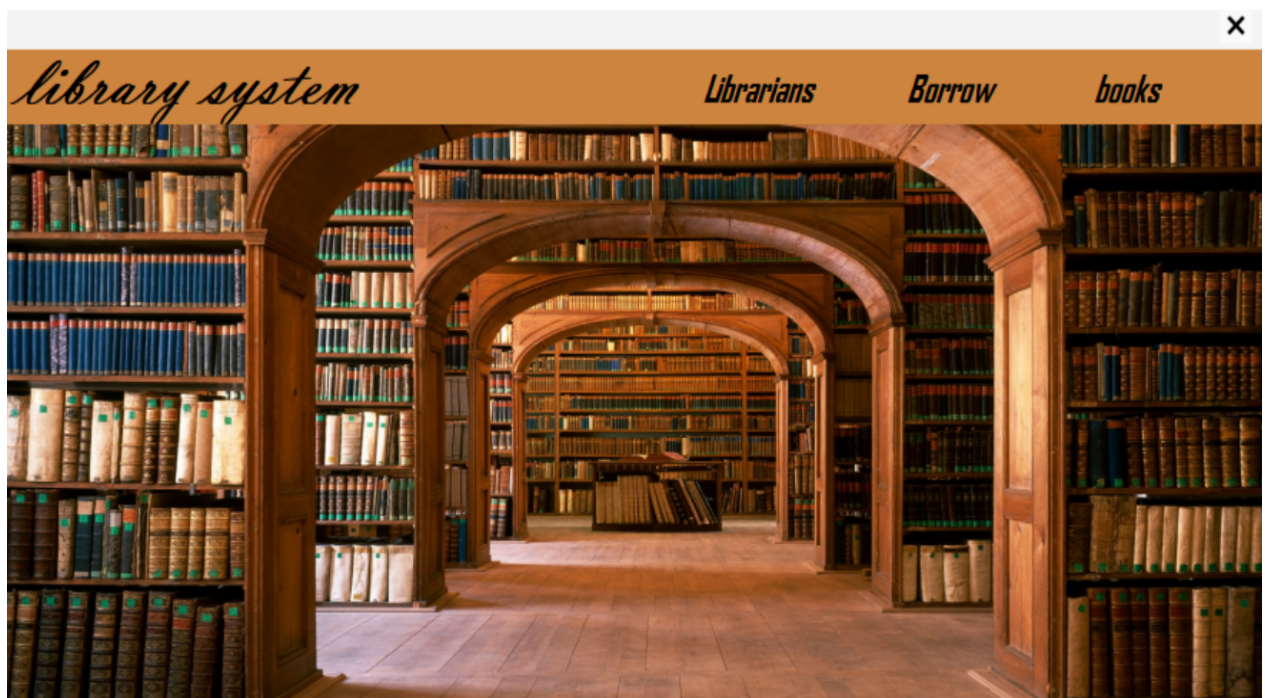
## User Login

User name

Password  ☒ hide



In the first form which is called login you enter the user name and password and if they are correct you enter to home page



Home page is the main page which you can choose which task do you want

✕

## Library mangment system librarians

Name

ID

Phone

Email

	Librarian name	Librarian id	Librarian phone
▶	jack	19112	35485655
✱			

Add
Edit
Remove

Return

In this form is the list of librarians which work in the library

And a grid view to show you the information of each one of them

Library mangment system books

Book name

Author

Publisher

Price

Quantity

Add

Edit

Remove

Return

	bookName	Author	Publisher	Price
▶	math5	jack	jack	25
	phy	yommy	tommy	60
*				

In this form is the list of books in the library you can add, edit and remove books

Library mangment system borrow

Borrow Number

ID

Name

semester

Department

Phone

Date

Book

Edit

Remove

Return

Borrow book

Number of borrowed books

Borrow number	ID	Name	Semester	Department
1	20100948	osama	5	cs
*				

In the last form which is called borrow which show the students information and borrow number and date which they borrowed the book