

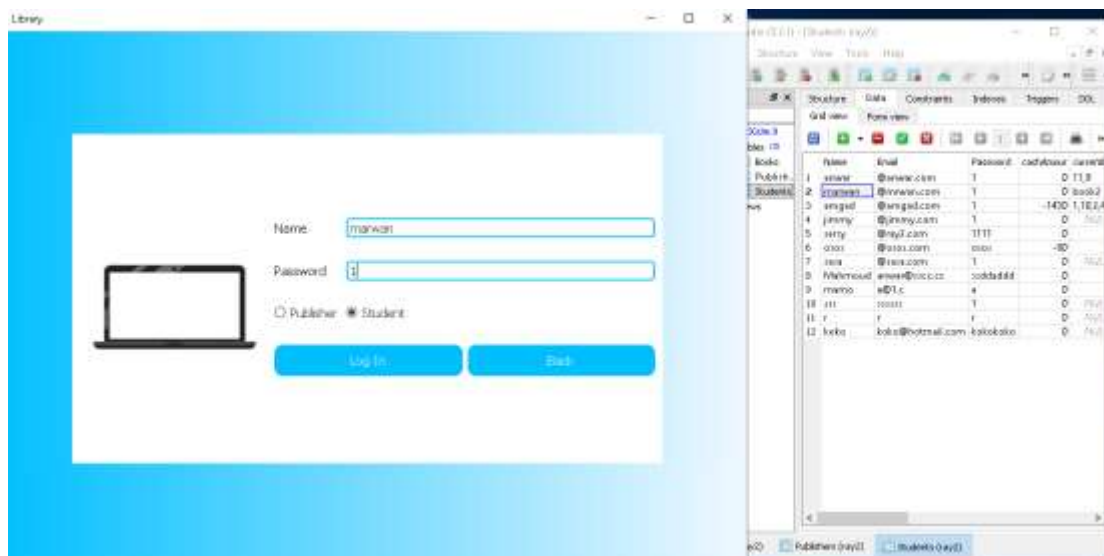
# TESTING

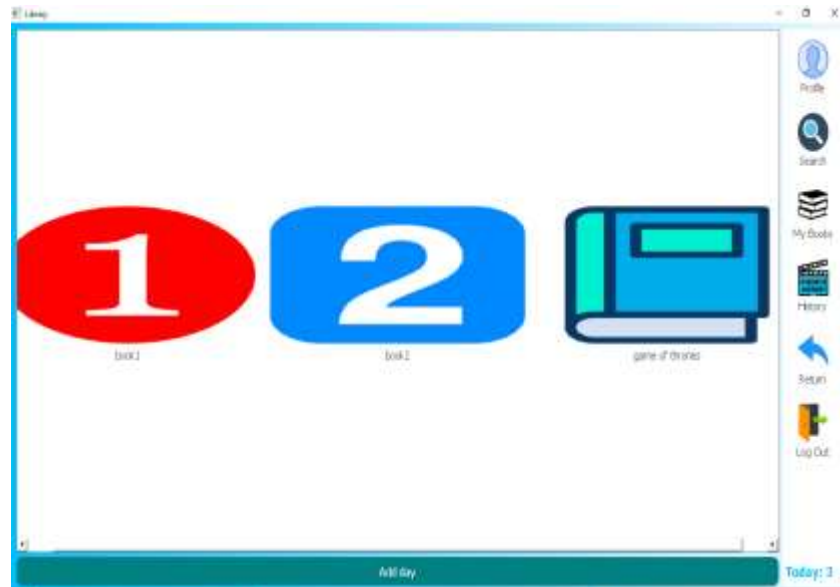
## Top-Down Component interaction Testing:

- Involves building a system from its components and testing it for problems that arise from component interactions.
- Testing the program starting the index screen in random sequence.

### 1. Testing Student log in:

Showing existing data in database.





## 2. Student Sign up:

Showing adding data in database.




After signing up successfully data

Is added to database.

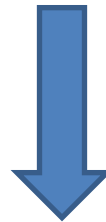
	Name	Email	Password	cashAmour	currentBook	requested	borrowedBooks	searchHistory	favoriteBox
1	anwar	@anwar.com	1	0	11,9		book1,book2,book6	book1,book2,book3,book4,book5,book6,bookA	NULL
2	marwan mahmoud	@mrwan.com	1	0	book2	book4	book2,book3,game of thrones	book1,book2,book3,book4,book5,bookA,bookR,game of thrones,osofizo	book4
3	amgad	@amgad.com	1	-1430	1,10,2,4,7,8	aaa	book1,book2,book3,book4,book5,bookA	book1,book2,book3,book4,book5,bookA	NULL
4	jimmy	@jimmy.com	1	0	NULL	NULL	NULL	NULL	NULL
5	seray	@ray2.com	1111	0	14		book1,bookRay2	book1,book2,book3,book4,book5,book6,bookA	NULL
6	osos	@osos.com	osos	-80	7		book1		NULL
7	ahmed	ahmed@hotmail.com	55555	0	NULL	NULL	NULL	NULL	NULL

### 3. Publisher Signup:

Publisher can sign up by choosing publisher  
In signup screen.



The image shows a web form for publisher signup. On the left is a blue circular icon with a white silhouette of a person and a plus sign. To the right of the icon are input fields for 'Name' (containing 'Amr'), 'Email' (containing 'amr@hotmail.com'), 'Password' (containing '199'), and 'Confirm Password' (containing '199'). Below these fields are two radio buttons: 'Publisher' (selected) and 'Student'. At the bottom are two blue buttons: 'Sign Up' and 'Back'.

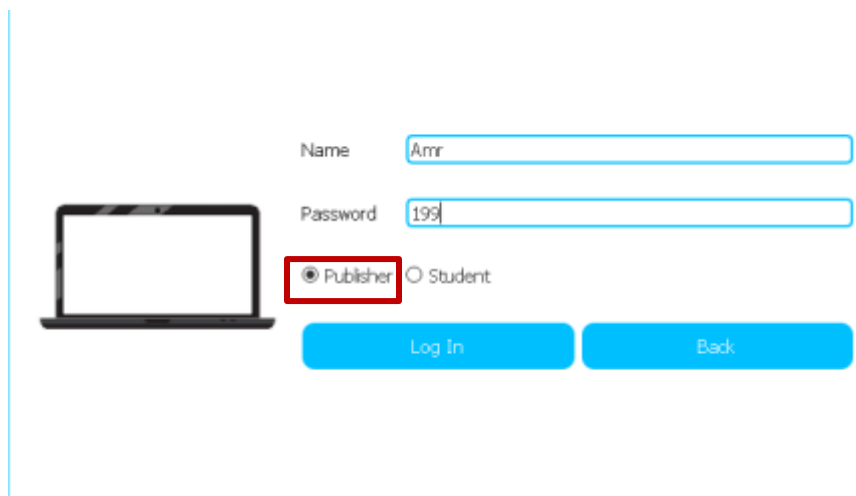


After signing up data is add to database.

	Name	Email	Password	cashAmount	my_books
1	amgad	@amgad.com	12345	712	book1,book2,book3,book9,book6
2	osama	@osama.com	1234	250	book5,ososfizo
3	Marwan	@marwan.com	123	225	NULL
4	abdelatef	anwar@sscc.cc	12	0	NULL
5	anwar	aaa@kk.rr	1	0	NULL
6	jimmy	a1@1.c	0	0	NULL
7	Amr	amr@hotmail...	199	0	NULL

#### 4. Publisher login

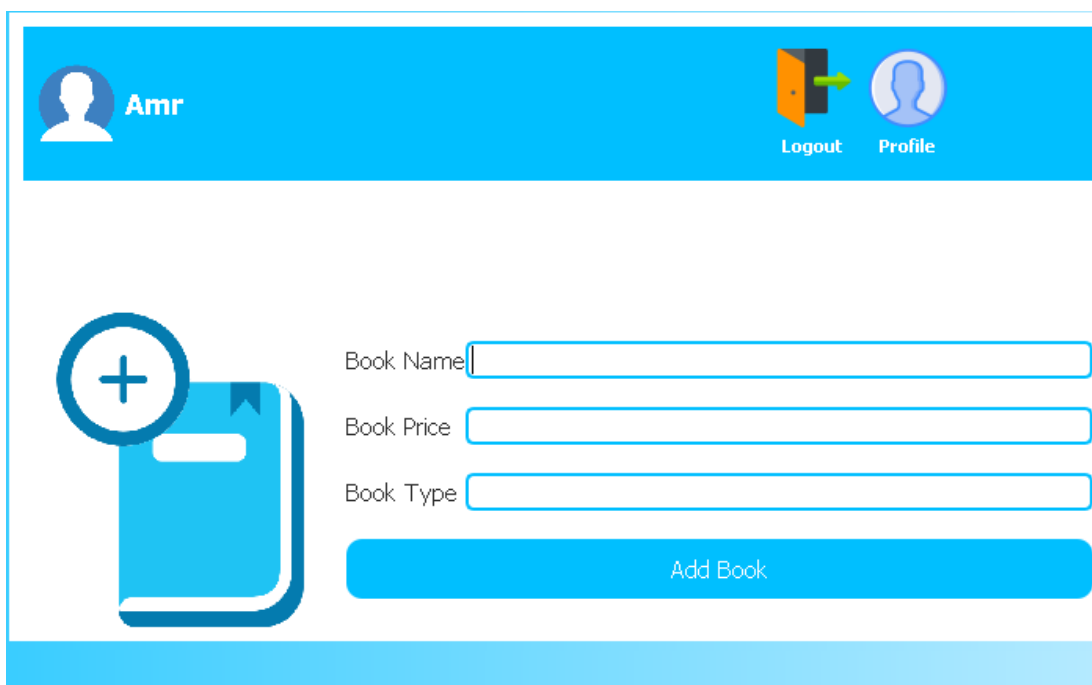
Publisher can login by choosing publisher in login window as shown.



A login window with a laptop icon on the left. It contains two input fields: 'Name' with the text 'Amr' and 'Password' with the text '199'. Below these fields are two radio buttons: 'Publisher' (which is selected and highlighted with a red box) and 'Student'. At the bottom are two blue buttons: 'Log In' and 'Back'.



Login Successfully





A profile window with a blue header bar. On the left of the header is a user profile icon and the name 'Amr'. On the right are two icons: 'Logout' (a door icon) and 'Profile' (a person icon). Below the header, on the left, is a blue book icon with a white plus sign in a circle. To the right of the icon are three input fields: 'Book Name', 'Book Price', and 'Book Type'. Below these fields is a large blue button labeled 'Add Book'.


Profile Window Is opened so he can add books, Edit his profile data.


## 5. Publisher add book:

Publisher can add new books by entering name, price and the type of the book.

 Amr

 Logout

 Profile

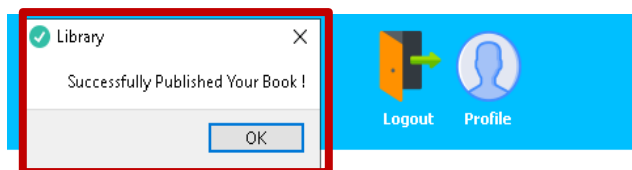


Book Name

Book Price

Book Type

Add Book



Book Name

Book Price

Book Type

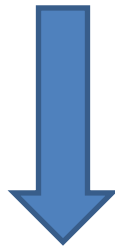
Add Book



After pressing add book, the book is added to database.

	Name	Type	Price	Publisher	borrowedD	expectedR	actualRetu	State	Availability
1	book1	fantasy	50	ray2	1	20	1	1	0
2	book2	horror	50	amgad	1	23	21	1	0
3	game of thrones	Drama	50	amr sersy	1	20	1	1	1
4	big bang theory	scientific	150	Amr	0	0	0	1	1

**Availability of the book becomes 1.**



The book is then updated in database for the Publisher.

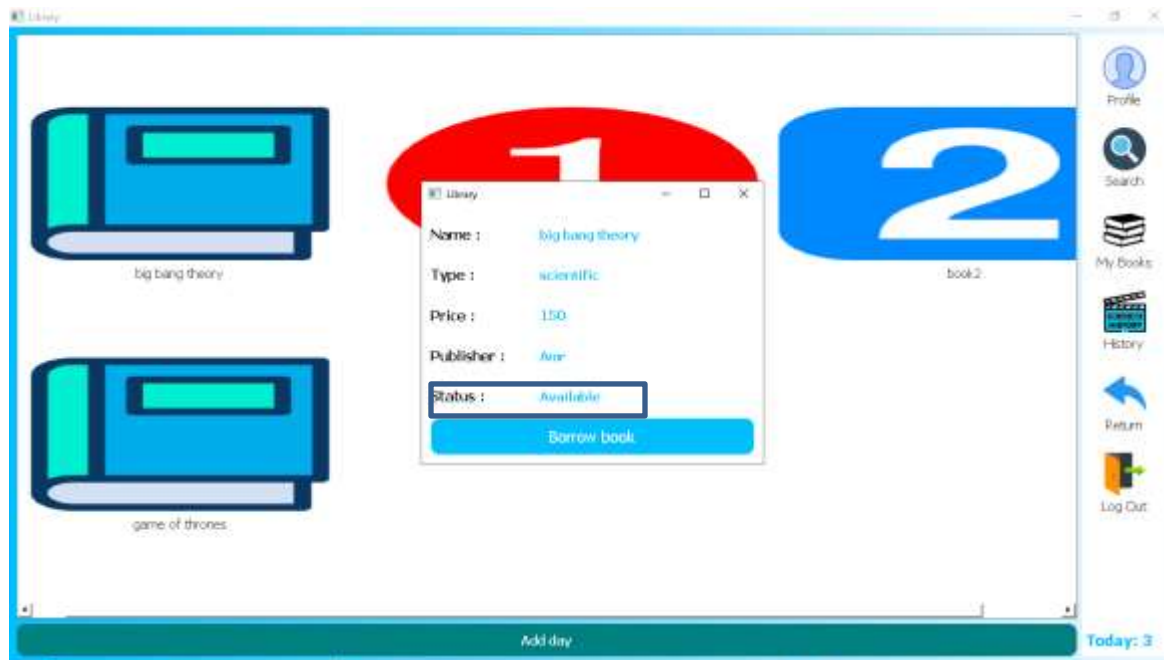
5	anwar	aaa@kk.rr	1	0	NULL
6	jimmy	a1@1.c	0	0	NULL
7	Amr	amr@hotmail...	199	1500	,big bang theory

## 6. Student Borrow book

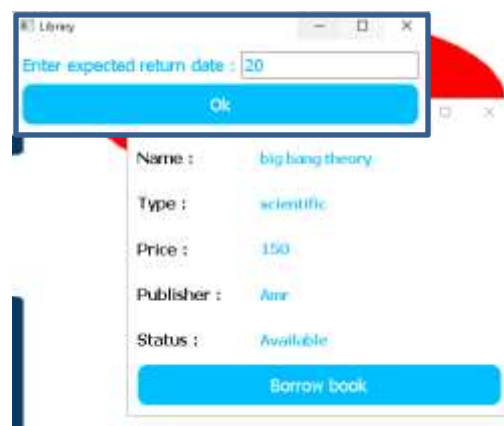
Student can borrow book by entering its name and see if it is available or not.

-The book is available now in the library.

-status of the book shows if it is available or not.



After pressing borrow book Student should  
Enter return date.



The screenshot shows a web application window titled "Library". It contains a form with the following fields and values:

- Name : big bang theory
- Type : scientific
- Price :
- Publisher :
- Status : Available

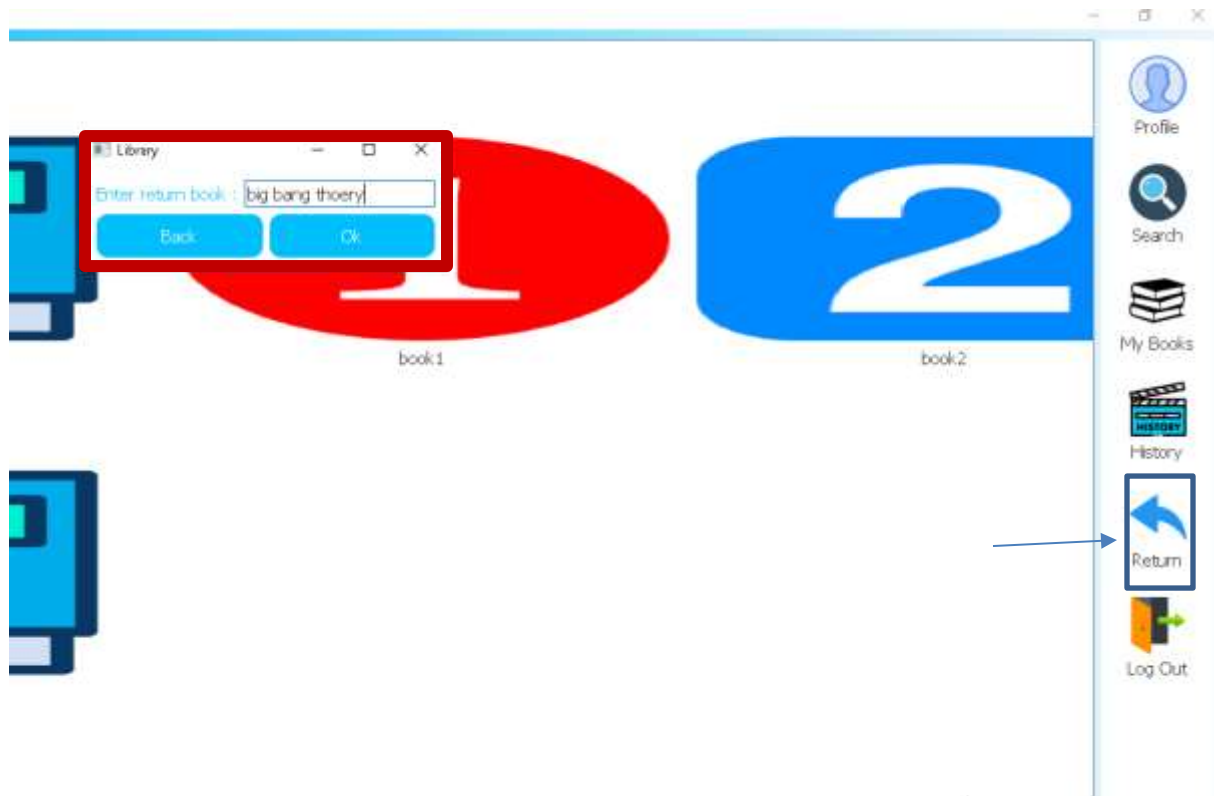
Below the form is a large blue button labeled "Borrow book". A modal dialog box is open over the form, displaying a green checkmark icon, the text "Library", and the message "Borrowed the Book Successfully!". An "OK" button is located at the bottom right of the dialog box.

After entering expected return date borrowed successes and availability of the book become 0 updated in the database.



## 7. Student return book.

Student can return borrowed book by clicking return and entering borrowed book's name.



After pressing ok, it shows message with  
The bill, and book is removed from  
Student's borrowed books

	Name	Email	Password	cashAmour	currentBook	requestedE	borrowedBooks
1	anwar	@anwar.com	1	0	11,9		book1,book2,book6
2	marwan mahmoud	@mrwan.com	1	0	book2	book4	book2,book3,game of thrones
3	amgad	@amgad.com	1	-1430	1,10,2,4,7,8	aaa	book1,book2,book3,book4,book5,bookA
4	jimmy	@jimmy.com	1	0	NULL	NULL	NULL
5	sersy	@ray2.com	1111	0	14		book1,bookRay2
6	osos	@osos.com	osos	-80	7		book1
7	ahmed	ahmed@hotmail.com	55555	-375			





Book availability in database become

	Name	Type	Price	Publisher	borrowedD	expectedR	actualRetu	State	Availability
1	book1	fantasy	50	ray2	1	20	1	1	0
2	book2	horror	50	amgad	1	23	21	1	1
3	game of thrones	Drama	50	amr sersy	1	20	1	1	1
4	big bang theory	scientific	150	Amr	3	20	14	1	1

## Testing summary:

### Module Testing

Module test went successfully on the security password check.

- Login was successful when entering the correct password.
- Login failed while entering any other password.

### Integration Testing

Integration testing went through for 2 scenarios.

- Adding a new book to the library.
- Displaying the available books.

### System Testing

System successfully checked to fulfill the meant purpose.

