

MicroLink Information Technology
college

OOP-2 Group assignment

DEPARTMENT OF COMPUTER SCIENCE

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Project Title :- Library Management System

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Library management system

We selected this title for our project because, most of the time we have problem finding books in our own library that the teacher has given us the title to. Many similar books are found but finding the exact reference is a little bit hard. So we hope such system makes the process easier and faster.

The scope of the project is to create a system that gives ease of access and efficient management to a library system.

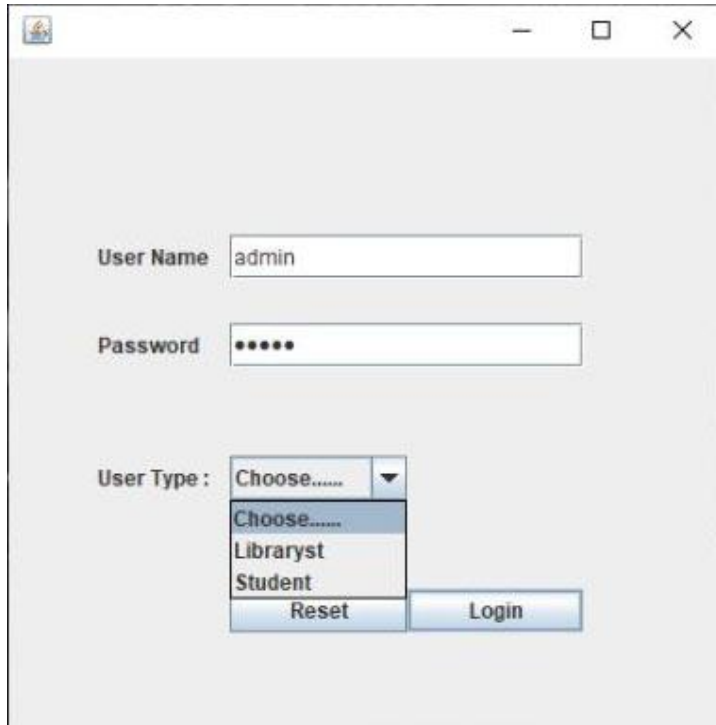
The system allows the library admin to inter the books that are available and make it accessible for students to search and check the availability. The students then are able to search easily with their access privileges to be able to access it.

The project is intended to have 2 users the Librarian and the Students.

The librarian is supposed to update and edit or delete the database. While students are only able to access it ..

How it works.

The initial process is the requirement of the user name and password that gets the proper authorization to the users.



The user type gives the user where to go next.

The LIBRARIAN OR STUDENT section

The LIBRARIAN section

In case of the Librarian the interface takes them to the MOE digital library management. it takes Librarian to the section that is used to editing the information that are displayed and who accesses it.

It has 3 icons to select the BOOKS, STUDENTS, and the logout.

The BOOKS icon takes to where the books information is added, deleted, cleared or updated.

It has input section the contains

-book name

-book author

-file size

-file type

-subject

-book type

-grade

Book Id	Book Name	Book Author	Date	File Size	File Type	Subject	Book Type	Grade
1	Chemistry	Moe	2021-05-12	200	Pdf	Math	ref	10
2	Electronics	Moe	2021-05-11	2	Doc	Biology	text	11
11	The Huma	Moe	2021-05-11	2	Doc	Biology	text	11
12	Java	Moe	2021-05-11	188	Doc	Biology	text	11
13	C++	Moe	2021-05-11	220	Doc	Biology	text	11
14	Python	Moe	2021-05-11	55	Doc	Biology	text	11
16	Economics	Moe	2021-05-11	2020	Doc	Biology	text	11
17	Data Struct	moe	2021-03-02	20	Doc	physics	ref	10
18	Calculus	moe	2021-02-04	250	Pdf	biology	bt	10
19	OOP 1	Moe	2021-02-04	250	Doc	Physics	ref	12
20	OOP 2	Moe	2021-03-01	780	Pdf	IT	bt	08
21	book2	Moe	2021-02-12	21	ad	CS	doc	8
22	book3	Moe	2021-02-01	452	pdf	CE	pdf	7
30	sol	Moe	2021-02-03	21	da	amharic	text	10
31	book E	Moe	2021-02-03	21	Doc	amharic	text	10
32	Balageru S.	Moe	2021-02-03	21Mb	pdf	Computer	ref	Degree

Selecting Table row gets to the JTextField . so that we can edit

Book Id	Book Name	Book Author	Date	File Size	File Type	Subject	Book Type	Grade
1	Chemistry	Moe	2021-05-12	200	Pdf	Math	ref	10
2	Electronics	Moe	2021-05-11	2	Doc	Biology	text	11
11	The Huma	Moe	2021-05-11	2	Doc	Biology	text	11
12	Java	Moe	2021-05-11	188	Doc	Biology	text	11
13	C++	Moe	2021-05-11	220	Doc	Biology	text	11
14	Python	Moe	2021-05-11	55	Doc	Biology	text	11
16	Economics	Moe	2021-05-11	2020	Doc	Biology	text	11
17	Data Struct	moe	2021-03-02	20	Doc	physics	ref	10
18	Calculus	moe	2021-02-04	250	Pdf	biology	bt	10
19	OOP 1	Moe	2021-02-04	250	Doc	Physics	ref	12
20	OOP 2	Moe	2021-03-01	780	Pdf	IT	bt	08
21	book2	Moe	2021-02-12	21	ad	CS	doc	8
22	book3	Moe	2021-02-01	452	pdf	CE	pdf	7
30	sol	Moe	2021-02-03	21	da	amharic	text	10
31	book E	Moe	2021-02-03	21	Doc	amharic	text	10
32	Balageru Sami	MOE	2021-02-03	21Mb	pdf	Computer	ref	Degree

After the editing is completed a message is deployed.

18	Calculus	moe	2021-02-04	250				
19	OOP 1	Moe	2021-02-04	250				
20	OOP 2	Moe	2021-03-01	780				
21	book2	Moe	2021-02-12	21				
22	book3	Moe	2021-02-01	452				
			2021-02-03	21				
			2021-02-03	21				
			2021-02-03	21Mb				

The STUDENT icon takes to where the student information is added, deleted, cleared or updated.

The screenshot shows a web application titled "Library Management System". On the left is a blue sidebar with buttons: "Wellcome", "Books", "Students", and "LogOut". The main area has a form for adding or updating student information with fields for "Student ID", "User Name", "PassWord", and "Full Name". Below the form are four buttons: "Update", "Add New", "Clear", and "Delete". On the right is a table displaying student records.

Id	Student IdNo	Student UserNa..	Student Password	Student FullName
1	14249/19	admin	admin	yesahet halle
2	14250/19	ukee	1234	yesahet halle
3	14251/19	yasa	yasa	yesahet halle
5	14251/19	kskk	kskk	yesahet
6	001849	eyob	eyob	eyob Halle

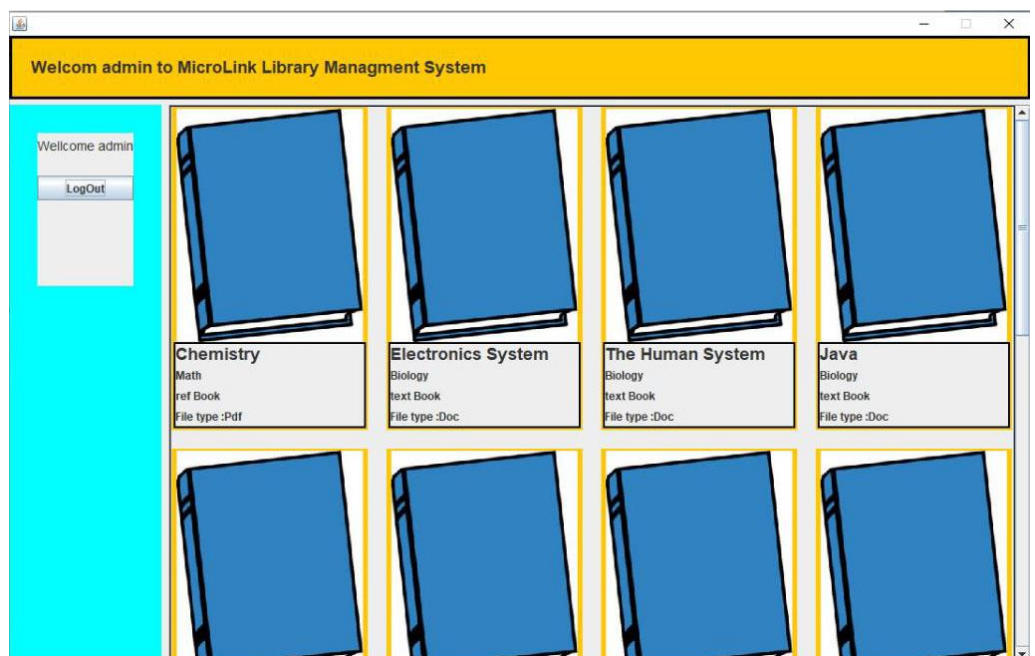
At the bottom of the window, it says "Library Management System Group Project Of OOP2".

After finishing the admin has an option to logout button to exit or continue.

STUDENT section

Is where the students can access the files, on the books that they want.

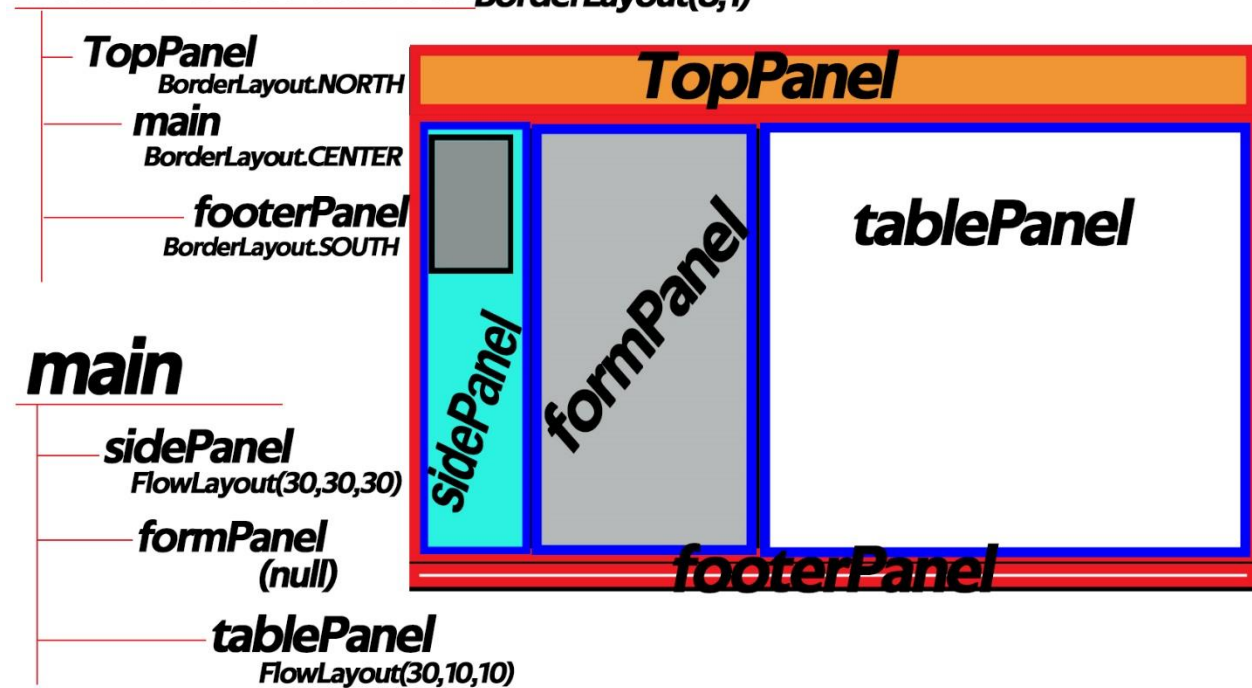
The books are displayed in the category which makes them easily accesable.



And although the layout we used tried to show it in the image below

On LIBRARIAN section

Main Container *BorderLayout(8,1)*



On STUDENT Section

mainCon

