

UMM LIBRARY PROJECT

**PRESENTED BY ASYLUM TEAM:
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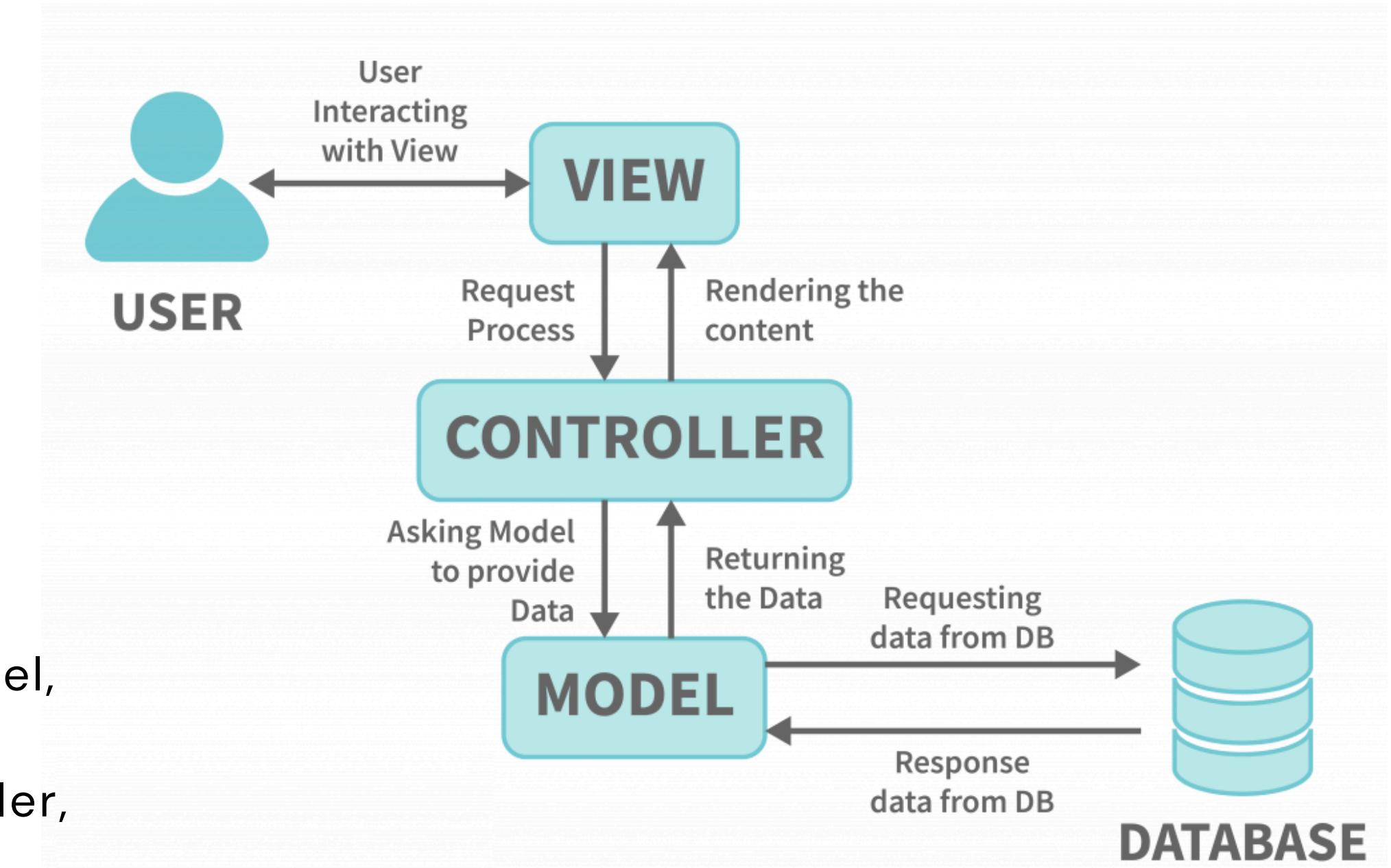


Latar Belakang

- **Kebutuhan Digitalisasi Layanan Perpustakaan:**
 - Platform Digital untuk Perpustakaan UMM:
 - Mempercepat dan mempermudah proses administrasi perpustakaan (peminjaman, pengembalian, katalogisasi).
 - Meningkatkan efisiensi pengelolaan koleksi buku dan data anggota.
- Peningkatan Aksesibilitas Informasi Bagi Mahasiswa:
 - Memungkinkan mahasiswa mengakses katalog buku dan informasi pribadi kapan saja dan di mana saja.
 - Menyediakan notifikasi dan reminder otomatis untuk peminjaman. Memfasilitasi peminjaman dan pengembalian buku.
- Optimasi Pengelolaan Denda & Statistik:
 - Sistematisasi perhitungan denda dan pencatatan pendapatan.
 - Menyediakan data statistik untuk evaluasi kinerja perpustakaan.
- Mendukung Visi UMM sebagai Kampus Inovatif:
 - Menerapkan teknologi informasi untuk mendukung kegiatan akademik dan layanan mahasiswa.

System Architecture

- Model: Book, Student, Admin, Fines, BorrowingRecord.
- View: HomePanel, BookManagementPanel, UserManagementPanel, dll.
- Controller: BookController, UserController, RegisterController



Feature Demo

Book Management (CRUD Buku)



UMM
LIBRARY

-  Dashboard
 -  Book Management
 -  User Management
 -  Profile
 -  Logout

Book Management

ISBN :	<input type="text"/>
Title :	<input type="text"/>
Author :	<input type="text"/>
Category :	<input type="text"/>
Search	

- Tambah Buku
Klik tombol “Add Book” → Isi data (ISBN, Judul, Penulis, Kategori, Status) → Simpan ke CSV.
 - Edit Buku
Klik ikon pensil → Form terisi otomatis → Edit → Simpan perubahan.
 - Hapus Buku
Klik ikon tempat sampah → Data dihapus dari CSV.

User Management



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LIBRARY

-  **Dashboard**
 -  **Book Management**
 -  **User Management**
 -  **Profile**
 -  **Logout**

User Management

NIM :

[View Details](#)

Name :

ANSWER

Major :

[View Details](#)

Faculty:

ANSWER

Email :

ANSWER

Search

- Tambah User
Admin dapat menambah user baru ke sistem.
 - Edit User
Klik ikon pensil → Edit nama, jurusan, email, dll.
 - Hapus User
Klik ikon tempat sampah → Hapus data user.

Borrowing



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-  Home
 -  Search Book
 -  Borrowing History
 -  Notifications
 -  Profile
 -  Logout

Search Book Catalog

Isbn :

Title : _____

Author : _____

Category :

Search

- Peminjaman Buku
Mahasiswa login → Klik "Borrow" pada buku yang tersedia.
Status buku akan berubah jadi "Borrowed".

Returning

The screenshot shows a web-based library management system. On the left, there is a dark red sidebar with a 'Back' button. The main content area has a light gray background. At the top, it says 'Edit Student Profile'. On the left side of the main area, there is a form with fields for NIM, Name, Major, Faculty, and Email, each with a text input and a red underline. Below the form is a red 'Edit Profile' button. To the right of the form is a table titled 'Borrowed Books History' with the following data:

No	ISBN	Title	Author	Category	Status	Action
1	978-132-4567-09-34	Java Programming	James Gosling	Programming	Borrowing	<button>Change Status</button>
2	890-543-1245-16-13	AI for Beginner	Stuart Russell	AI	Returned	<button>Change Status</button>
3	890-543-1245-16-14	Design Patterns	Gang of Four	Software Engin...	Overdue	<button>Change Status</button>

- Pengembalian Buku
Admin atau user bisa klik "Change Status" saat buku dikembalikan.
Status jadi "Returned", atau "Overdue" jika terlambat.

Statistik & Denda



UMM
LIBRARY

- [*Dashboard*](#)
- [*Book Management*](#)
- [*User Management*](#)
- [*Profile*](#)
- [*Logout*](#)

Welcome, Admin!

Book Stats



Fines Collected

January	↓
February	↓
March	↓
April	↓
May	↓
June	↓
July	↓
August	↓
September	↓
October	↓
November	↓
December	↑

Collected Fines : Rp. 100.000
Add Fines : Rp. Add

Log Status

- Farhan Has Been Borrow Blablabla Book
- Boabao Has Returned The Book

- Statistik Buku
Ditampilkan dalam bentuk grafik peminjaman bulanan.
- Pengelolaan Denda
Denda ditambahkan secara manual atau otomatis.
- Total denda yang terkumpul ditampilkan.

Testing Results

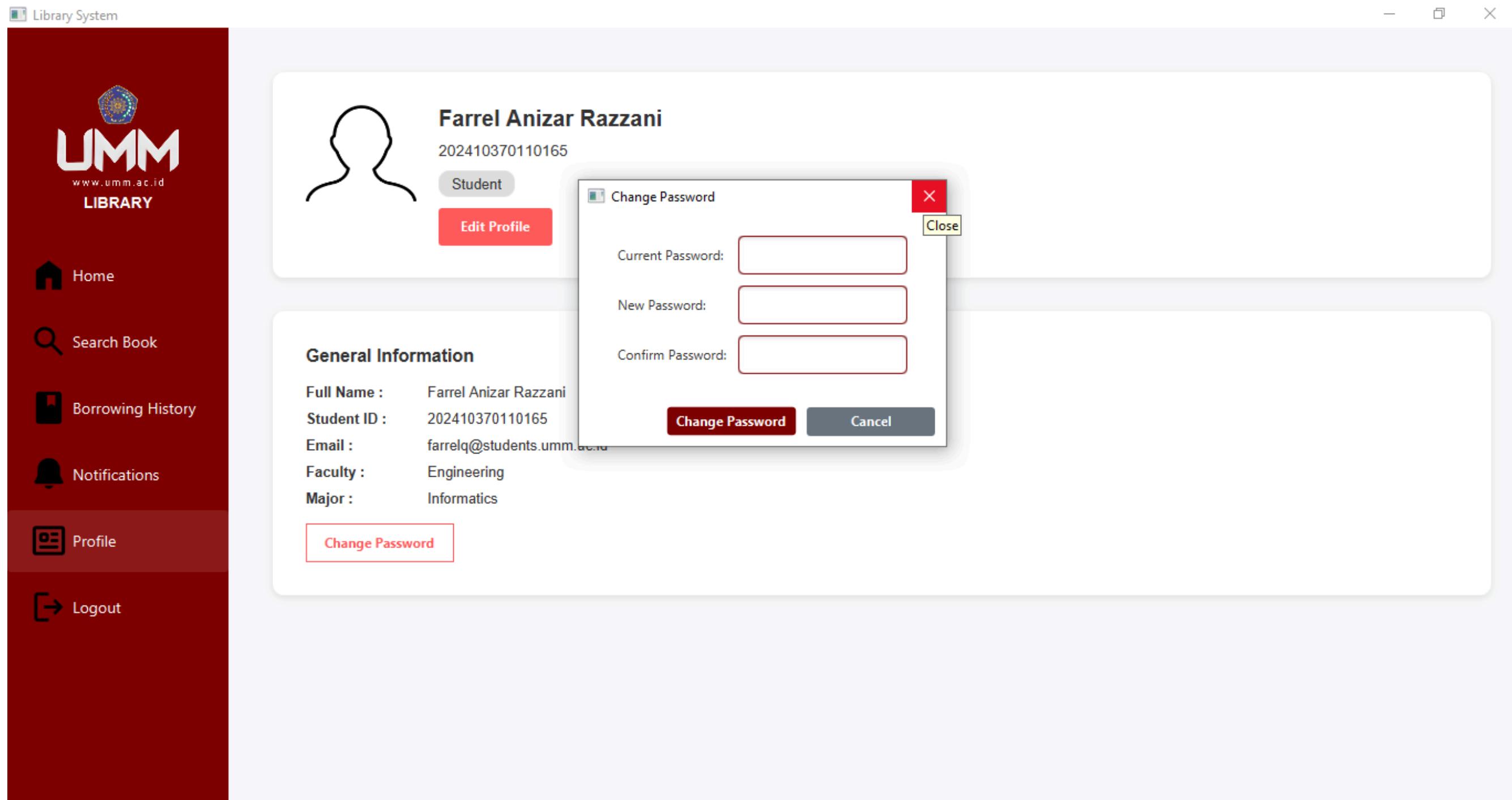
Borrow Button Function

The screenshot shows a library application interface. On the left is a red sidebar with the UMM logo, website (www.umm.ac.id), and library name. The main area has a title 'Search Book Catalog' and search fields for ISBN, Title, Author, and Category. A modal dialog titled 'Confirm Borrow' asks if the user is sure they want to borrow 'Java Programming: From Beginner to Expert by James Wan?'. Below the dialog is a table of book records:

No	ISBN	Title	Author	Category	Status	Action
1	978-128-409-07-14	Java Programming: From Beginner to Expert	James Wan	Programming	Available	Borrow
2	810-541-748-19-15	Artificial Intelligence Fundamentals	Albert Einstein	AI	Borrowed	
3	978-013-468-599-1	Effective Java	Joshua Bloch	Programming	Available	Borrow
4	978-149-195-035-7	Designing Data-Intensive Applications	Martin Kleppmann	Database	Available	Borrow

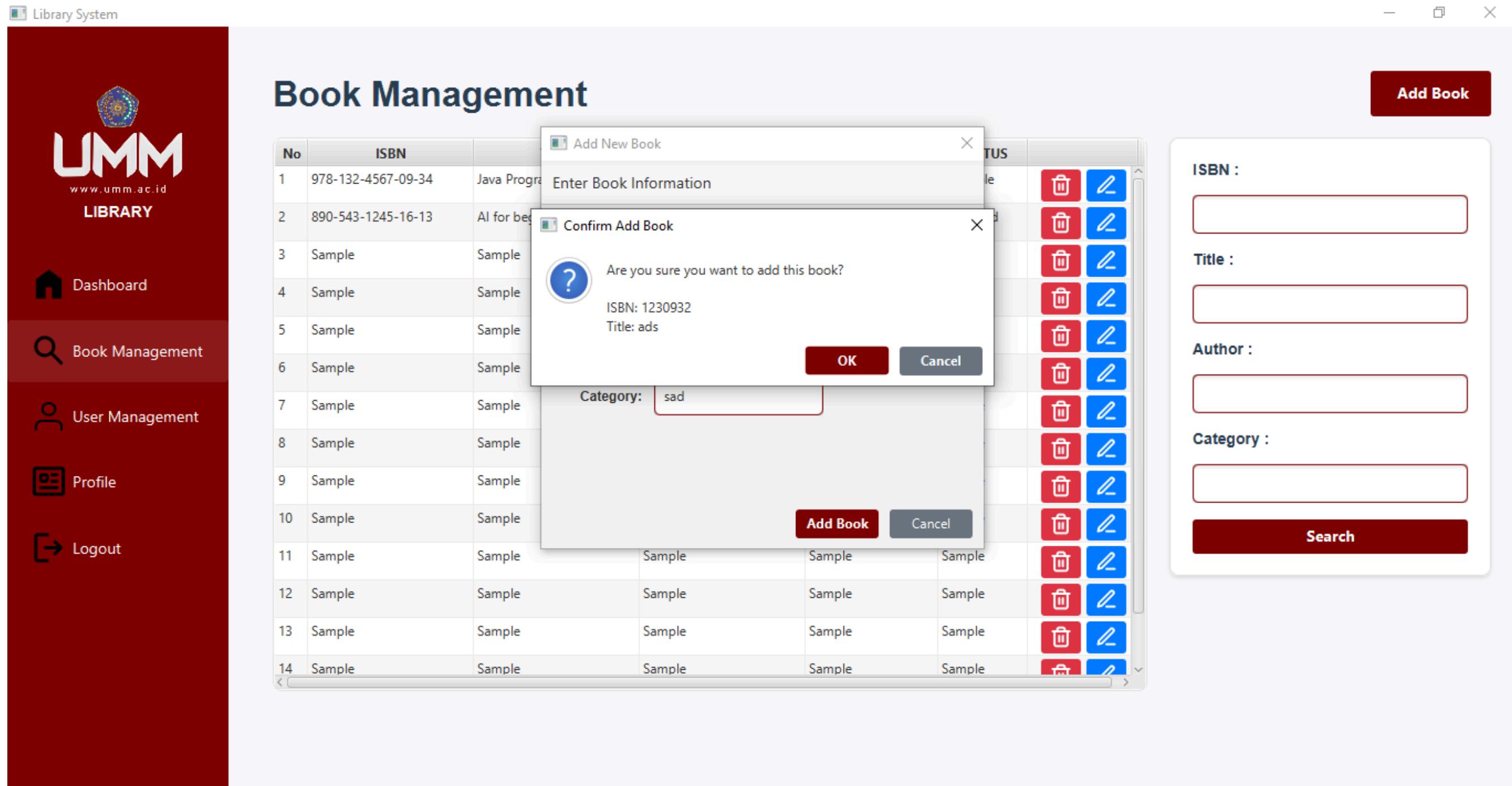
Tombol Borrow berfungsi dengan baik, muncul tampilan konfirmasi untuk meminjam

Change Password Function



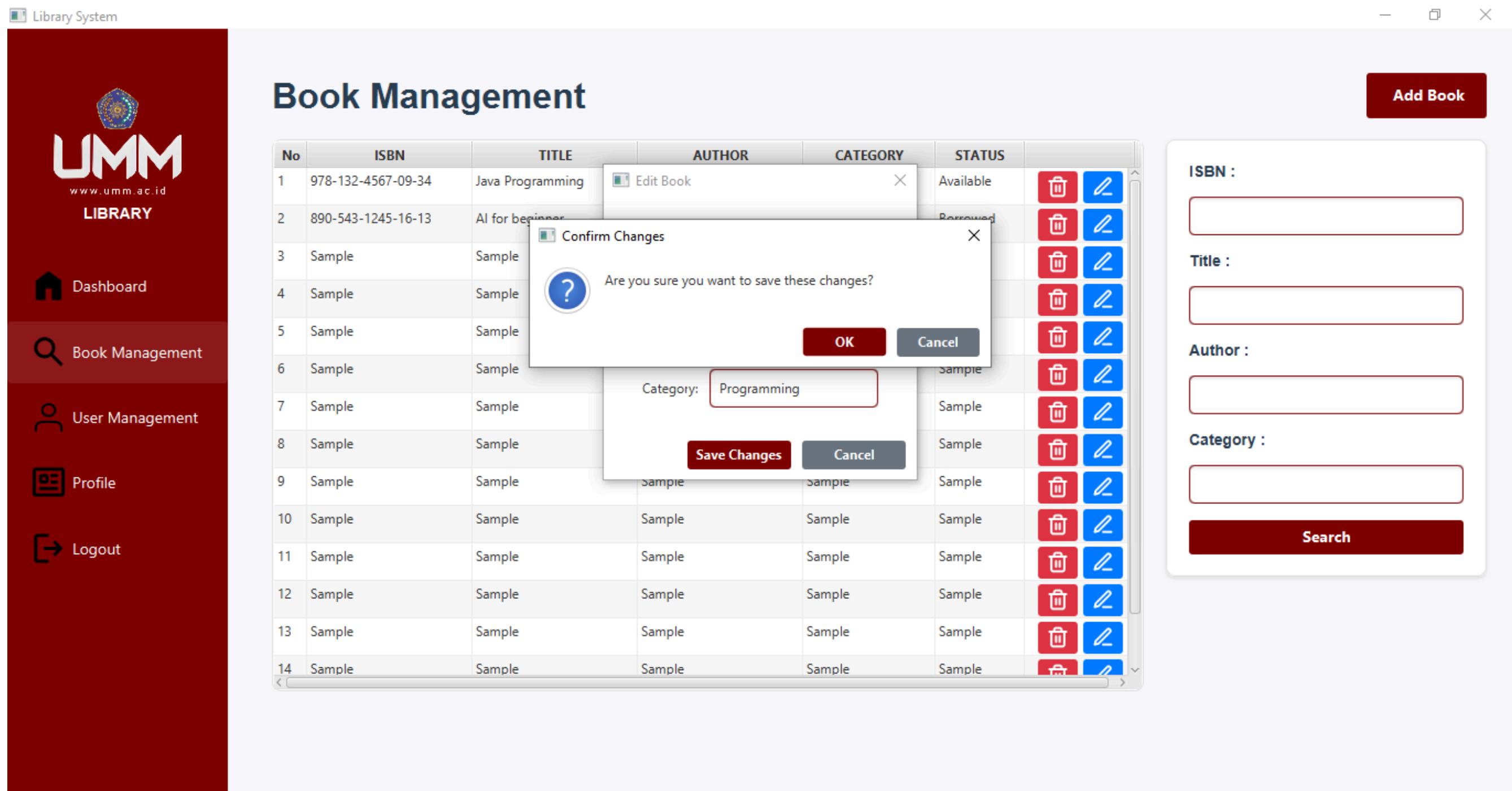
Change Password pada menu Profile Student juga berjalan dengan baik menampilkan modal untuk mengisi pergantian password

Add Book Button Function



Book management dapat menambahkan buku dengan mengklik tombol add yang ada di pojok kanan atas. akan muncul modal untuk menginputkan data bukunya kemudian akan muncul notifikasi konfirmasi penambahan buku

Edit Book Button Function



Kemudian Book management juga dapat mengedit buku dengan mengklik button berwarna biru setelah itu akan muncul modal untuk menginputkan perubahannya dan akan muncul popup notifikasi konfirmasi untuk perubahannya

Delete Book Button Function

The screenshot shows the 'Book Management' section of the Library System. On the left, a sidebar menu includes 'Dashboard', 'Book Management' (which is currently selected), 'User Management', 'Profile', and 'Logout'. The main area displays a table of books with columns: No, ISBN, TITLE, AUTHOR, CATEGORY, and STATUS. A modal dialog box titled 'Delete Book' is centered over the table, asking 'Are you sure you want to delete this book?'. It shows the details: Title: Ganti Judul and ISBN: 978-132-4567-09-34. There are 'OK' and 'Cancel' buttons at the bottom of the dialog. To the right of the table, there is a search form with fields for ISBN, Title, Author, Category, and a 'Search' button.

No	ISBN	TITLE	AUTHOR	CATEGORY	STATUS
1	978-132-4567-09-34	Ganti Judul	James wan	Programming	Available
2	890-543-1245-16-13	AI for beginer			
3	Sample	Sample			
4	Sample	Sample			
5	Sample	Sample			
6	Sample	Sample			
7	Sample	Sample	Sample	Sample	Sample
8	Sample	Sample	Sample	Sample	Sample
9	Sample	Sample	Sample	Sample	Sample
10	Sample	Sample	Sample	Sample	Sample
11	Sample	Sample	Sample	Sample	Sample
12	Sample	Sample	Sample	Sample	Sample
13	Sample	Sample	Sample	Sample	Sample
14	Sample	Sample	Sample	Sample	Sample

Button Delete book berfungsi dengan baik dan akan memunculkan notifikasi konfirmasi untuk mendelete buku yang dipilih

Edit Book Button Function

The screenshot shows a user interface for managing student profiles and book inventories. On the left, there is a sidebar with a red background and a white header containing a back button. The main area has a light gray background and features two overlapping windows.

The top window is titled "Edit Student Profile". It contains fields for NIM (POPO), Name (202410370110024), Major (Technic), Faculty (Informatics), and Email (POPO). Below these fields are "Save Changes" and "Cancel" buttons. This window is partially obscured by a modal dialog titled "Edit Student Profile".

The modal dialog also contains fields for Student ID (POPO), Name (202410370110024), Major (Technic), Faculty (Informatics), and Email (POPO).

The bottom window is a table titled "Book Inventory". It lists books with columns for Title, Author, Category, Status, and Action. The table shows three books:

TITLE	AUTHOR	CATEGORY	STATUS	ACTION
Java Programming	James Gosling	Programming	Borrowing	Change Status
AI for Beginner	Stuart Russell	AI	Returned	Change Status
Design Patterns	Gang of Four	Software Engin...	Overdue	Change Status

Menu user management berjalan dengan baik ketika mengklik button edit user yang dipilih akan berpindah ke halaman edit student profile dan button edit profile akan memunculkan modal untuk mengedit data user. di halaman user ini bisa mengubah status buku sebagai sistem pengembalian buku

Thank You