UC Name	**Password Reset Option**
Summary	Allows the users to reset their passwords.
Dependency	Before users can reset their passwords, they must have been registered in the system.
Actors	User
Preconditions	User must be logged in and authenticated.
Description of the Main Sequence	Step 1: User navigates to the "Forgot Password" page. Step 2: User enters their email address. Step 3: System sends a password reset link to the user's email. Step 4: User clicks on the link and sets a new password.
Description of the Alternative Sequence	• If the user enters an invalid email address, the system displays an error message forcing the user to enter a valid email address. • If the user does not receive the password reset email within a fixed time frame, the system provides an option to resend the email or contact support for assistance.
Non functional requirements	Changes to employee data should be logged for auditing purposes.
Post conditions	User's password is successfully reset.

UC Name	**Modify Data of an Employee**
Summary	Allow admins to modify employee data.
Dependency	None
Actors	Admin
Preconditions	Admin must be logged in and authenticated.
Description of the Main Sequence	Step 1: Admin navigates to the employee management section. Step 2: Admin selects the employee whose data needs to be modified. Step 3: Admin updates the employee's information (personal details, roles etc). Step 4: Admin saves the changes.
Description of the Alternative Sequence	• If the admin attempts to modify sensitive employee data without

	proper authorization, the system denies the request. If the admin encounters an error while saving the changes, the system displays an error message and prompts the admin to retry or contact support for assistance.
Non functional requirements	The password reset process should be completed within 24 hours for security reasons.
Post conditions	Employee's data is successfully modified.

UC Name	**Fine Management (for Overdue Items)**
Summary	Management of fines for overdue library items.
Dependency	Accurate tracking of transactions.
Actors	Librarian
Preconditions	Item must be overdue.
Description of the Main Sequence	Step 1: Librarian identifies overdue items. Step 2: Librarian calculates the fine amount based on the overdue period and fine policy. Step 3: Librarian records the fine in the system.
Description of the Alternative Sequence	If the librarian encounters a technical issue while recording the fine, the system provides an option to manually enter the fine amount and reason for the fine.
Non functional requirements	Fine calculation should be accurate and consistent.
Post conditions	Fine for the overdue item is successfully recorded.

UC Name	**Monthly and Total Revenue**
Summary	Tracking monthly and total revenue.
Dependency	Accurate tracking of book sales transactions. The system must record each book sale transaction with the corresponding revenue generated.
Actors	Manager (primary)
Preconditions	User must be logged in and authenticated.
Description of the Main Sequence	Step 1: Manager accesses the revenue tracking section.

	Step 2: Manager selects the desired time period (e.g., month, year). Step 3: System generates a report displaying the revenue for the selected period.
Description of the Alternative Sequence	If the manager selects an invalid time period for the revenue report, the system displays an error message and prompts the manager to select a valid time period.
Non functional requirements	Revenue tracking should be real-time and accurate.
Post conditions	Monthly and total revenue data is successfully displayed.

UC Name	**Backup the Database (Data Recovery)**
Summary	Regularly backup the database for data recovery purposes.
Dependency	None
Actors	System
Preconditions	None
Description of the Main Sequence	Step 1: System initiates the backup process at scheduled intervals (daily, weekly, monthly). Step 2: System creates a backup copy of the database. Step 3: Backup file is stored in a secure location.
Description of the Alternative Sequence	• If the system has insufficient storage space for the backup file, it alerts the admin and provides options to free up space. • If the backup process is interrupted due to unexpected system shutdown or network failure, the system automatically retries the backup once the issue is resolved.
Non functional requirements	Backup process should not impact system performance.
Post conditions	Database backup is successfully completed.