

DEPARTMENT LIBRARY AUTOMATION

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INTRODUCTION:

Library automation system is a project which aims in developing a computerized system to maintain all the daily work of library. This project has many features which are generally not available in normal library automation systems like facility of user login and a facility of teacher's login. It also has a facility of admin login through which the admin can monitor the whole system. It has also a facility where student after logging in their accounts can see list of books issued and its issue date and return date and also the students can request the librarian to add new books by filling the book request form. The librarian after logging into his account that is admin account can generate various reports such as student report, issue report, teacher report and book report

Overall, this project of ours is being developed to help the students as well as staff of library to maintain the library in the best way possible and also reduce the human efforts.

PURPOSE:

The library management system software helps in reducing operational costs. Managing a library manually is labor intensive and an immense amount of paperwork is involved. An automated system reduces the need for man power and stationery. This leads to lower operational costs.

STACK HOLDERS:

- 1.EMPLOYEE
- 2.STUDENTS
- 3.TEACHERS
- 4.RESEARCH SCHOLORS

MODULES:

- 1.SEARCHING: It improves the searching process by advance searching option.
- 2.DISPLAY: displaying information
- 3.AVAILABILTY: book present or not
- 4.DATA BASE: insertion and extraction
- 5.REPORT: Report can be generated in this system.
- 6 . LOGIN
7. OVER DUE
- 8 . FEEDBACK

9 PAYMENT OPTIONS

10 . ADD ,DELETE ,UPDATE

11. ADD to cart

TABLES:

1) Book table --> for keep tracking of books

Book_id (P)

Book_name

Auther

Subject

No_of_copies

2.) Student table -> keep tracking of students

Stu_id (P)

Regno

Branch

Section

Sem

Year_of_admin

2) Staff table

Staff_id (P)

name

Branch

Contact num

Publications

Mail_id

Subjects

4.)Issue table

Book_id (f)

Stu_id (f)

Staff_id (f)

Issue_date

Return date

3) Staff login

Staff_id (f)

Login_id

Pwd

6.)student login

stu_id(f)

login_id

Pwd

7) PAYMENT

PID (pk)

Stu_id (f)

Staff_id(f)

Book_id(f)

DATE

8) FEEDBACK:

Stid(f)

Staffid (f)

Comments

Ratings

EPIC1: USER AUTHENTICATION:- This feature used by the user to login into system. They are required to enter user id and password before they are allowed to enter the system .The user id and password will be verified and if invalid id is there user is allowed to not enter the system.

1.As a user I want to register in the App

Tasks

- design registration page
- register button
- edit text
- implementation with java files in android studio(validations)
- App logo
- terms and conditions check box

2.As a user I want a login page

tasks:

- Design login page
- App icon
- Buttons
- implementation with .xml files in android studio
- SQL tables

3. as a user I want a forgot password option

Tasks:

- Forgot password page,
- forms for filling details with email address
- forms for filling with mobile no
- Create a URL link for forgot password
- Confirmation mail
- Reset password page
- Update the new password in table

4.as a user I want to know when my details are invalid:

Tasks:

- Check whether the username is correct
- Check whether the password is correct
- wrong password alert
- wrong username alert

5. AS a user I want my account to be Locked after too many failed attempts (for security purposes)

Tasks :

- 5 attempts of wrong password (limit)
- Notification mail for wrong attempts
- After 5 attempts account will be locked

- Violating terms and conditions page
- Count messages for logins

EPIC2: BOOK SEARCH:- This feature is found in book maintenance part . we can search book based on book id , book name , publication or by author name.

US1: As a user I want different learning resource types

TASKS:

- Display icons using page ratios in html
- Design icons for 1. books2.articles3. papers
- Create tables for above mentioned

US2: As a user I want to search by using different options

TASKS:

- Design a search bar
- Design a search drop box
- Create options search by author name, search by book name, search by subject, search by course
- Create suggestions list according to the inputs

US3: AS a user I need Results

Displaying no.of Results

- Displaying results for the search
- Searching the books in the table using the parameters
- No results page
- Fetch the details of the book from database (table book)

US4: As a user I want to know whether the particular book is available in library or not

- Check by given input
- Search the database
- Display available or not available using html/JavaScript

- Design a page for the result

US4: 5. As a user I need books result by filtering

- Filter the books by author
- Filter the books by SRJ rank
- Filter the books by subject
- Filter the books by publications

EPIC3: BOOK REQUEST: -this feature help the user for requesting various kinds of learning resources of the library

US1:AS a user I want to check the availability of the book

TASKS:

- Check whether the user has filled the request form
- Search in database
- Results page according to input

US2: As a user I want to request for a book

TASKS:

- Create a form for details using java (xml file)
- Design a request page
- Create different buttons
- Request acceptance
- Confirmation message

US3:as a user I want new resources:

TASKS:

- Check the book in database
- Create drop down for new resources
- Create form for details
- Check whether the important places are filled or not (or) form validation

- Create submit or return buttons
- Create a space to write

US4: As a user I want to get a book from other libraries

TASKS:

- Create a form for other libraries
- Create an option for request this copy
- Click on the copy u want
- Fill in your u_name and psswd
- Click on the pickup point

US5: As a user I want to know the updates of the book

TASKS:

- Design page to check the new book releases

US3:As a user I want to know about Issued book information

Tasks:

1.Issued page

2.No.of Books issued

3. Notifier

4. Issued Date

5. confirmation about issued Books

EPIC 4: BOOK ISSUE:this feature helps in issuing the resources

As a user I want to know about Issued book information

Tasks:

- 1.Issued page
- 2.No.of Books issued
3. Notifier
4. Issued Date
5. confirmation about issued Books

2. As a user I want to know about Not issued Books

Tasks:

1. Invalid details
2. Server crashes
3. Limit crossed
4. Network issues

5.Back Ground Performance of user

3.As a user I want to know about Deadlines

Tasks:

1.Deadline Page

2.Deadline Date

3.Fine

4.Warning Notification to Mail

5. Warning Notification to Mobile

4 As a user I want return date:

1.Return Page

2.Return Date

3.Return with due or without due

EPIC 5: FINE: this _feature provides different payment ways and all queries regarding payments

1. As a user I want fine details

- Fine page
- Total books
- Total amount
- Button for payment screen

2. As a user I want payment options

- Payment page
- summary
- Net banking, UPI, debit/credit cards
- Valid payment information (Invalid)
- With security
- Continue button for processing payment
- want to make a payment with primary method

3. As a user I want receipts

- I want to import images/pdf of receipts
- Service details
- Payment details
- Receipt to be saved in cloud
- Receipt to mail

4. As a user I want Conformation mail

- Due date
- Amount

- User details
- Sender details
- Download option

5. As a user I want Transaction history

- Transaction page
- Payment success /failure
- Payment date
- Bank details
- Send to email button
- Pdf download button

EPIC6: FEEDBACK AND CONTACT US: this feature helps the user to rate the app and contact for queries

US1:As a user I want to give the feedback for the app

TASKS:

- Create number buttons for rating the app
- Create a form for feedback
- Create a text box for personal commands
- Create app related mcq's using radio buttons
- Create a thank you page after feedback

US2:As a user I want to know the working times of the library

TASKS:

- Design a page for details
- Create drop box –1. about2.Timings
- display time table of the library

US3:As a user I want to contact library:

TASKS:

- Design a contact us page
- Form for choosing contacts resources
- Contact through mail
- Contact through phone no

Epic 7 : ADD/delete/update : this feature helps to add a new book or update the new versions of a book published by a user/admin

1. Add books

Sub tasks:

- Create ADD button. This button navigates to the form to be filled
- Enter the details of book (Book name ,author , edition, published year)
- An alert message if any important detail missed
- An alert message if already the book present.
- ADMIN should verify their details.
- SUBMIT button to enter the details into data base.

2. Update books:

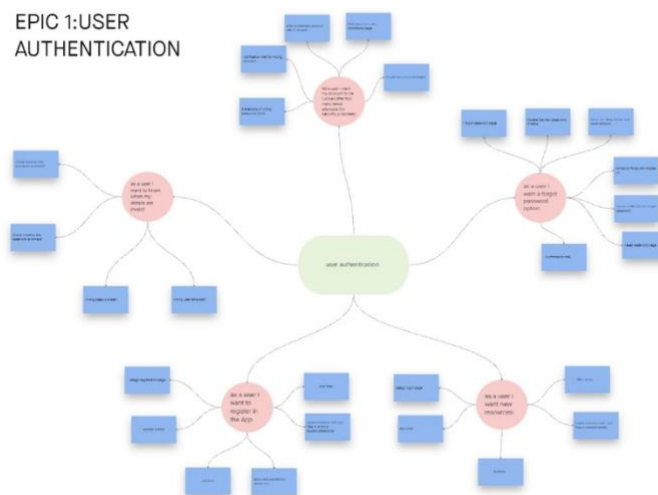
- This button navigates to a form created through javascript
- Fill the details in the form (like edition , name , updated year)
- An alert message if any important detail missed
- ADMIN should verify their details.
- SUBMIT button to enter the details into data base.

3. Delete books :

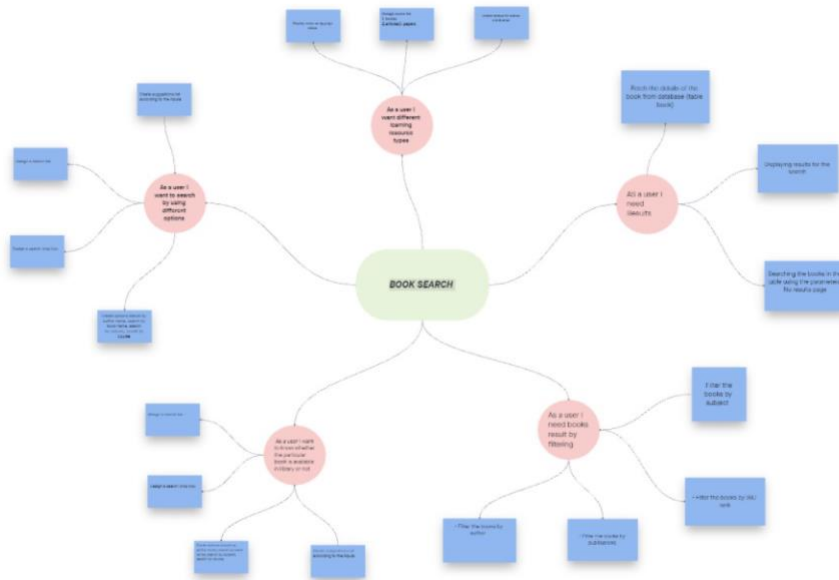
- Delete through author name or book name
- Fill the details in the form (like edition , name , updated year,author)
- An alert message if book is not found.

- ADMIN should verify their details.
- SUBMIT button to enter the details into data base.
- A notification to ADMIN . (book is removed)

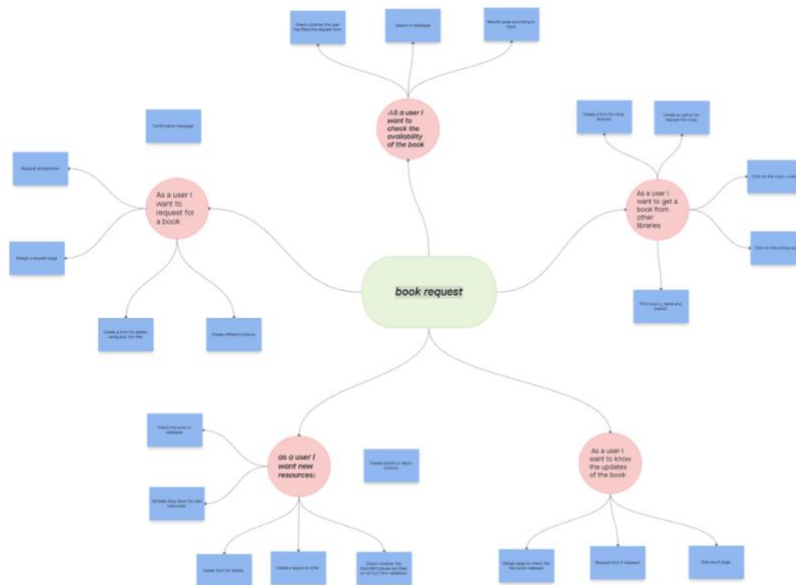
1.user login



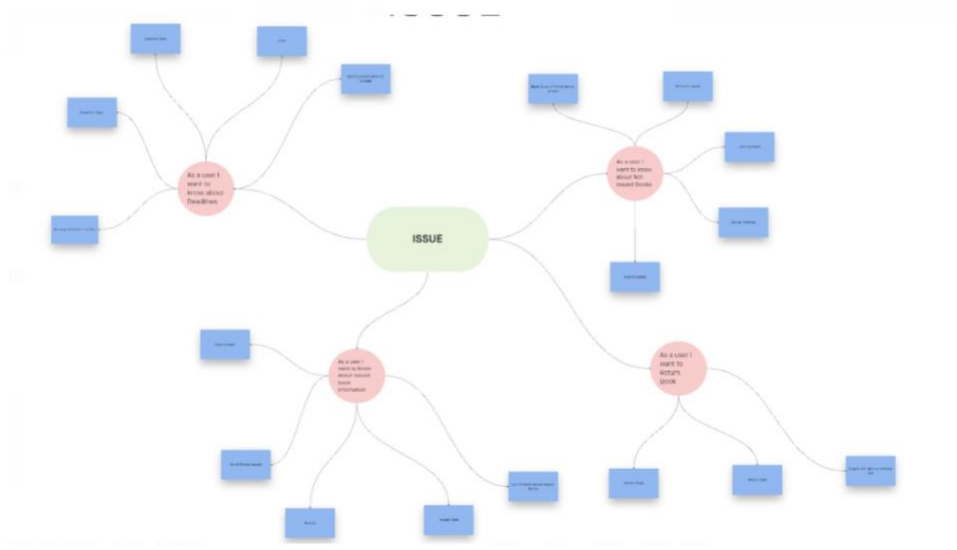
2.book search



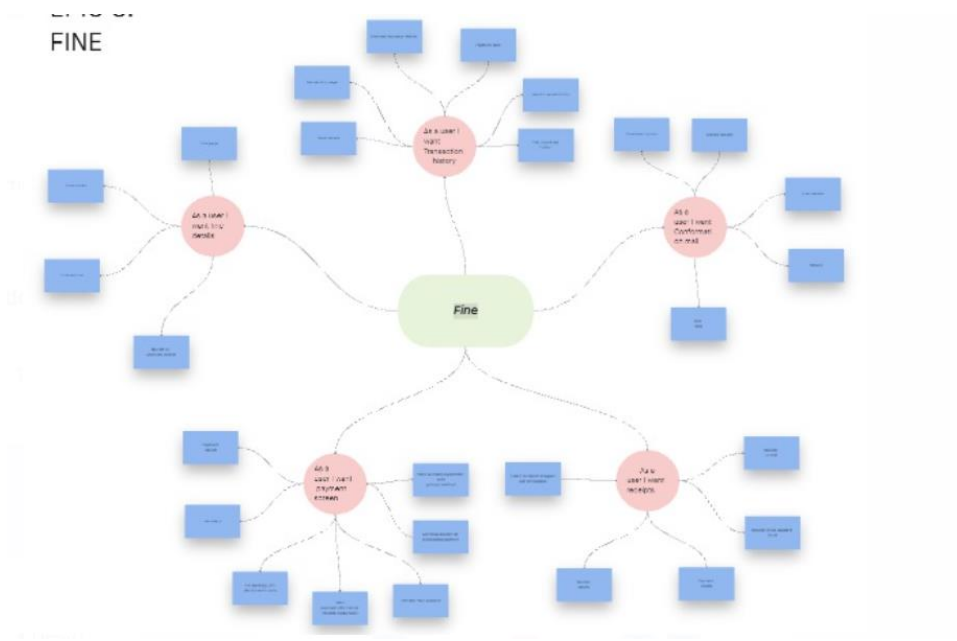
3. book request



4. book issue



5.fine



6.feedback

