

PROJECT REPORT

DONE BY :

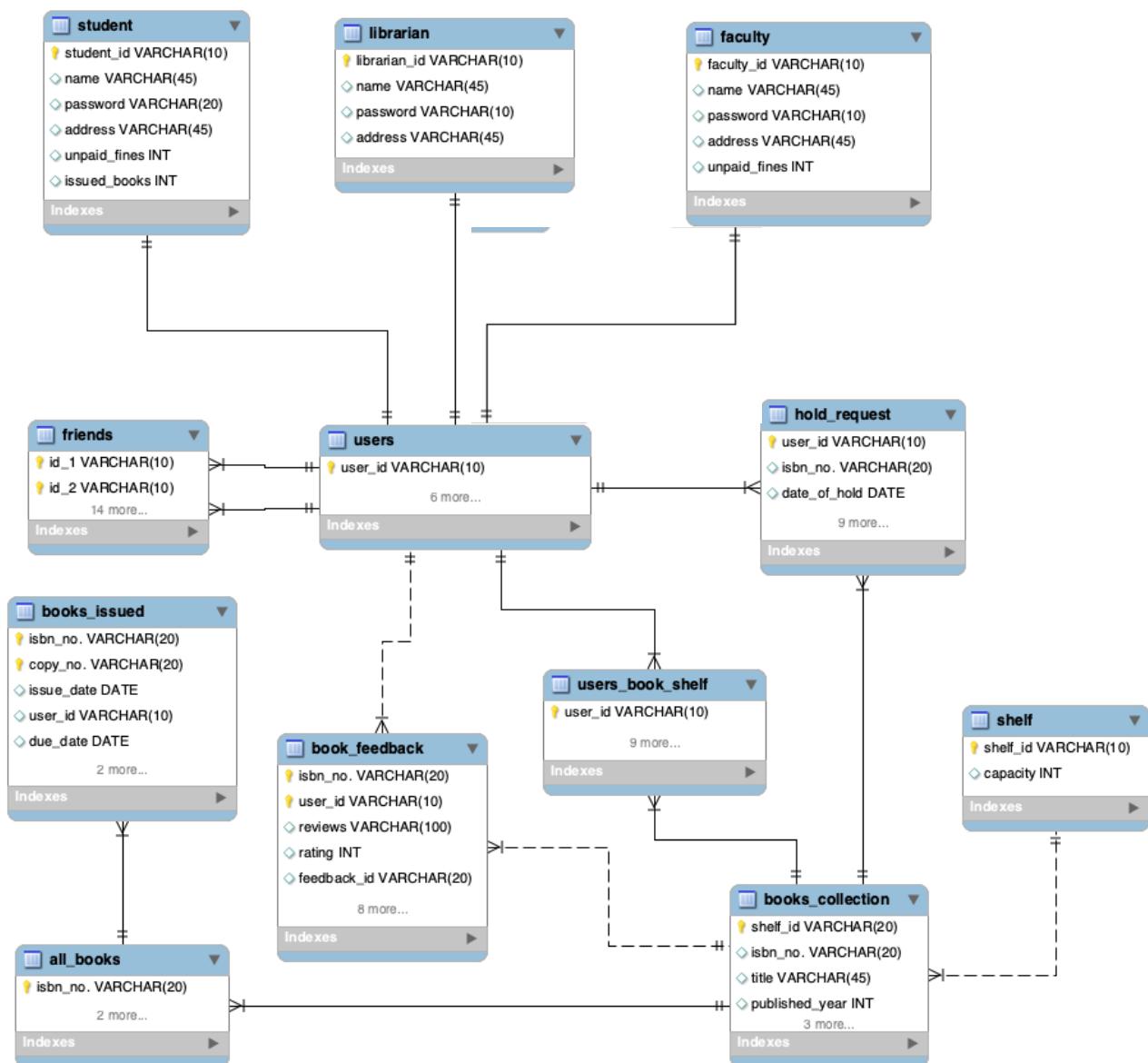
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The below ER diagram represents our database :



Major entities :

- USERS (Teacher/Student/librarian)
- FACULTY
- STUDENT
- LIBRARIAN
- BOOKS
- SHELF

Lets discuss briefly about the above entities and relationship present between them :

USERS(user_id) :

So the “user” entity represents the person’s attributes (either student/teacher/librarian)

- user_id is unique for every person and it is PK which is of type VARCHAR(10) .

LIBRARIAN(librarian_id) :

- librarian_id is unique for every person and it is PK which is of type VARCHAR(10) .
- Password is of type VARCHAR(10)
- Name is of type VARCHAR(45)
- Address is of type VARCHAR(45)

FACULTY(faculty_id) :

- faculty_id is unique for every person and it is PK which is of type VARCHAR(10) .
- Password is of type VARCHAR(10)
- Name is of type VARCHAR(45)
- Address is of type VARCHAR(45)
- unpaid_finess is the due amount of a student is of type INT.

STUDENT(student_id) :

- student_id is unique for every person and it is PK which is of type VARCHAR(10) .
- Password is of type VARCHAR(10)
- Name is of type VARCHAR(45)
- Address is of type VARCHAR(45)
- unpaid_finess is the due amount of a student is of type INT.
- Issued_books is the no.of books given to a student is of type INT.

BOOKS(isbn_no.) :

- isbn_no. and copy_no. are unique for every book and they are PK’s of type VARCHAR(20).

SHELF(shelf_id) :

- shelf_id is unique for every shelf which is a book stack storage and it is PK which is of type VARCHAR(10) .
- Capacity is of type INT which determines the capacity of book shelf.

NORMALISATION :

- From the starting of the project we segregated different things as different entities such that other than primary key there is no partial dependency .
- In the above schemas we have written that ISBN_number as primary key and a simple assumption we took was copy_number is number of copies present in library .
- As a book contains multiple authors to maintain first normal form we made it as separate table making ISBN_number and author_name as primary key .
- One of the approximate reasonable assumption is that author name is different for a single ISBN(thinking of not to overcomplicate.)
- This was one of the case we got to normalise and the second case is: books(`title` , `publication_year` , `copy_number` , `subject` , `ISBN_number` ,) Here we normalised as 2 tables(ISBN is PK above valid assumption) books(ISBN_number , copy_number , publication_year , title) and subjects(ISBN_number , subject)
- The above where the only cases made to BCNF and rest are in BCNF itself .
- Reason why we chose BCNF even though in some times 3rd Normal Form is preferred(relatively less tables which make less comfortable to jump through tables) because if our database has let suppose 1000 users at that time I would like to use memory at expense of hardware .

SCREENSHOTS OF WEBSITE :

HOME PAGE :

Library Management Home Admin Student About Us Contact Us

Hello, Reader!

As per the given group project lab-assignment_3 on library management system by nagendra kumar sir. We group-7 successfully completed the project.

Admin

Student

ADMIN LOGIN/SIGNUP PAGE :

Library Management Home Admin Student About Us Contact Us

Hello, Admin

Welcome to Online Library Management System.

You can access various features after Login/SignUp.

[SignUp](#) [Login](#)

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Library Management Home Admin Student About Us Contact Us

Signup As Admin!

Admin Signup

First name:

Last name:

Username:

Password:

[Sign Up](#)

Already have an account? [Login here](#)

Login As Admin!

Admin Login

Username:

Password:

[Login](#)

Do not have account? [Signup here](#)



STUDENT LOGIN/SIGNUP PAGE :

Hello, Student

Welcome to Online Library Management System.

You can access various features after Login.

[SignUp](#) [Login](#)



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Student Signup

First name:

Last name:

Username:

Password:

Enrollment:

Branch:

Sign Up

Login As Student!

Student Login

Username:

Password:

Login

Do not have account? [Signup here](#)



STUDENT PAGE :

Library Management Home Issue Book ▾

LOGOUT About Us Contact Us

Welcome to Online library !

Hello KRISHNA !

As you are Student, you can see how many book you have taken from library with fine and many more ...!

Option Available For You

[View issued book to you](#)



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ISSUED BOOK TO STUDENT :

Library Management Home Issue Book ▾

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Book Issued To You !

Name	Enrollment	Branch	Book Name	Book Author	Issue Date	Expiry Date	Fine
bk1611	btech	cse	panchathantra	krishna boyapati	21-4-2021	6-5-2021	0
bk1611	btech	cse	cse	hritik	21-4-2021	6-5-2021	0



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ADMIN PAGE :

The screenshot shows the Admin Home Page of a Library Management system. At the top, there is a navigation bar with links for Library Management, Home, Book, Issue Book, Student, LOGOUT, About Us, and Contact Us. Below the navigation bar, a green header bar displays the text "Welcome to Online library !". The main content area features a large heading "Hello hritikesh !" followed by a descriptive message: "As you are Admin, you can add a book to library, view available book in library, Issue books to students, View issued book to students and many more ... !". Below this message is a section titled "Option Available For You" containing five blue rectangular buttons with white text: "Add Book To Library", "View Available Book", "Issue New Book", "View Issued Book", and "View Student".

ADD BOOK TO LIBRARY :

The screenshot shows the "ADD BOOK IN LIBRARY" page. At the top, there is a navigation bar with links for Library Management, Home, Book, Issue Book, Student, LOGOUT, About Us, and Contact Us. Below the navigation bar, a green header bar displays the text "ADD BOOK IN LIBRARY !". The main content area is a white box with a title "ADD BOOK IN LIBRARY". Inside the box, there are four input fields labeled "Name:", "Isbn:", "Author:", and "Category:". The "Category:" field contains a dropdown menu with the option "Education" selected. At the bottom of the white box is a blue rectangular button labeled "ADD". At the very bottom of the page, there is a small link: "View Available Book In Library [Click here](#)".

AVAILABLE BOOK IN LIBRARY :

Library Management Home Book ▾ Issue Book ▾ Student ▾ LOGOUT About Us Contact Us

Available Book in Library !

Book Name	ISBN	Author	Category
panchathantra	42398549	krishna boyapati	entertainment
cse	231874231	hritik	education

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ISSUE BOOK TO STUDENT :

Library Management Home Book ▾ Issue Book ▾ Student ▾ LOGOUT About Us Contact Us

ISSUE BOOK TO STUDENT !

ISSUE BOOK TO STUDENT

Name and ISBN:

Name and Enrollment:

ISSUE

View Issued Book to Student [Click here](#)

ISSUED BOOKS TO STUDENTS :

Library Management Home Book ▾ Issue Book ▾ Student ▾ LOGOUT About Us Contact Us

Issued books to Student !

Student Name	Student Enrollment	Book Name	Book Author	Issue Date	Expiry Date	Fine
KRISHNA	btech	panchathantra	krishna boyapati	21-4-2021	6-5-2021	0
KRISHNA	btech	cse	hritik	21-4-2021	6-5-2021	0

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STUDENTS REGISTERED IN LIBRARY :

Library Management Home Book ▾ Issue Book ▾ Student ▾ LOGOUT About Us Contact Us

Student registered in Library !

Name	Enrollment	Branch
KRISHNA	btech	cse

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ABOUT US PAGE :

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About Us !

Hello, Reader!

As per the given group project lab-assignment_3 on library management system by nagendra kumar sir. We group-7 successfully completed the project.

Explore our Website.

[HOME](#)

[!\[\]\(75b3a3558141cf7bf2f2fb05a8b33164_img.jpg\)](#) [!\[\]\(76135476e4c66624fcd079eb06e6e2d1_img.jpg\)](#) [!\[\]\(fb581a674d20e658b53cf34efaf73ce7_img.jpg\)](#) [!\[\]\(585e9300b58d006b1469489d43832795_img.jpg\)](#)

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CONTACT US PAGE : (feedback will be sent to given mail id which is ours)

Library Management Home Admin Student About Us Contact Us

Send Us Your Valuable Feedback !

Name:

Email:

Message:

[Send Message](#)

[!\[\]\(ccbbd653186ca6e338204174d2ae59a6_img.jpg\)](#) [!\[\]\(9eba544be39bf7f9cda8b3ecca70ec7d_img.jpg\)](#) [!\[\]\(1e81a34f224bff3b9263f85ff328a404_img.jpg\)](#) [!\[\]\(5d54376ac18574f003f3b136ec217d16_img.jpg\)](#)

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