

CHAPTER – I

INTRODUCTION

1.1 INTRODUCTION

Digital libraries provide users with online access to a wide range of resources. They are often used by students for research or by professionals seeking to stay current on the latest developments in their field.

Digital libraries can provide users with access to rare and out-of-print materials that might be difficult or impossible to locate in physical libraries. Digital libraries also offer a variety of search and sorting features, as well as social media-like features that can connect users with others to discuss topics.

As digital libraries continue to evolve, new features such as multimedia content, data visualization tools and interactive experiences are being added to software to make digital libraries even more engaging and helpful.

Digital libraries can be accessed from any computer or device with an internet connection, meaning that there is no need to physically visit the library or store materials to access them.

Digital libraries are often used by public libraries, university libraries and private companies. Much of the software available is open source or free to use. Examples include the Digital Public Library of America, Open Library, the Internet Archive and Project Gutenberg.

It is important to note, however, that some libraries require users to have specific plugins or software installed to view certain content. The relevant information should be noted on the library's website. Besides these platforms, a variety of other providers offer digital asset management options, such as software vendors, cloud service providers and companies specializing in library automation. These services can range from customized digital collections to full-fledged enterprise-level software platforms.

1.2 OBJECTIVE OF THE PROJECT

- The objective of the digital library is to assist users by satisfying their needs and requirements for management, access, storage, and manipulation of the variety of information stored in the collection of material that represents the "holdings" of the library.
- Users may be humans or they may be automated processes acting on behalf of or in support of human needs.
- Users also vary and include those who are "end" users (those not involved in the management and operation of the library but rather are the customers), library operators, and information "producers" who want their material available through the library.
- The key to effective collections management is to implement simple structural organizations and be able to present those organizations in a way that library users find useful and can understand easily.
- In traditional libraries, books are primarily stored by subject, title, author, and date, and accessed by following signs to the appropriate floor, room, bookcase, shelf, and spine-labeled book.
- The size and relative celebration of each portion of the collection gives patrons information about the collection and can reveal the library's collection management objectives as well.
- A library is created to serve a community of users. Users who participate in the digital library should be aware of its design and be able collectively to refine that design to better serve their own information needs.
- Therefore, the ongoing human usability of a digital library depends on the clear and unobtrusive exposure of the library's design, its near-term goals, and its overall objectives.
- Furthermore, digital libraries should continue the ongoing tradition of coupling utility with aesthetics in the organization and presentation of materials.
- Contribute to the lifelong learning opportunities of all people.
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1.3 STRUCTURE OF THE PROJECT REPORT

- Chapter 2 deals with Literature Survey.□
- Chapter 3 deals with Proposed Methodology.□
- Chapter 4 deals with Hardware Description.□
- Chapter 5 deals with Software Description.□
- Chapter 6 deals with Result & Discussion.□
- Chapter 7 deals with Conclusion & Future Scope.□

1.4 APPLICATIONS

- □nstitutional repositories □ Local library collections
- Digital achives
- To store, acess, manage ,magazine ,articles ,books images and referenced files
- This project archives collection of books through the various department

1.5 SUMMARY

- Institutional repositories □ Local library collections
- Digital achives
- To store, acess, manage ,magazine ,articles ,books images and referenced files
- This project archives collection of books through the various department
- Institutions with digital collections, and services;
- Collections are stored in digital formats and accessible by computers
- digital content may be stored locally, or accessed remotely via computer networks
- specialized staff who can select, structure, organize, interpret,distribute, preserve digital collections;
- Systems that support searching, use, creation of content;
- Systems that ensure the persistence over time of digital collections;
- Content readily and economically available for use by adefined user community

CHAPTER 2

LITERATURE SURVEY

2.1 INTRODUCTION

Significant changes seen by society through the transmission of information around the globe and it is accountable to the evolution of information technology. Now it is possible to archiving and accessing knowledge in the digitized form besides preservation of traditional knowledge due to use of information technology.

Demand for electronic information increasing day by day and at the same time traditional format of library becoming more and more expensive and complex to maintain. Now it is time for libraries to capitalize these challenges and meet demands and expectations of digital users. Libraries has to redesign their services to create value addition to satisfy the user's community.

2.2 LITERATURE REVIEW

This section of the article discuss about the research related to user's experience with digital library. This may be helpful to understand user's opinion, attitude, satisfaction and service experiences with digital library which can be further considered for enhancing user's satisfaction towards the use of digital library

2.3 EXTRACTING KNOWLEDGE FROM EXISITING SYSTEMS

Ekere etal (2016) study the perception of users towards digital library facilities, resources and services and found that users are highly satisfied with it. Users are highly aware and satisfied about the digital library resources such and WWW, WIFI and search engines compare to online databases, portals, online abstract, video CDs, CD-ROMs, and online indexes and abstract.

Asad Khan (2016) investigated the factors that influence the adoption of Digital Library among research students. The findings revealed that Interface characteristics influence cognitive response which predict student's intention of using digital library. Whereas navigation, individual differences and system characteristics significantly affected the ease of use. Usefulness is directly affected by system characteristics and system quality. Finally, it is found that usefulness have highest effects on digital library usage intention.

Yuangeng and Zeng (2014) worked with customer churn rate and it is the rate of customer discontinuation with digital library service. Study found that customer churn rate of the given library is very high and same with churn hazard in initial three months after customer's registration on the web site of the library

Xianjin et al (2014) investigated the effects of user's perception towards print and digital resources in terms of usage, usefulness and ease of use. There is a significant effect of the characteristics of user's such as gender, age field and experience on perception of users

Yalan et al (2014) examined quality of digital library which define as the quality of information quality of system and overall service quality of digital library. The compression of user's perceptions towards virtual communities and digital libraries have been done understand the actual nature of e quality perceived by the users. Based on the user's perception study found that digital libraries provide better information, system and service quality than virtual communities.

Ming-der et al (2012) research scholar are frequent users of digital resources of library in this regard this study investigated usage pattern, search behavior of graduate students and perception towards digital resources. Study reveals that students are using digital resources during thesis writing and science and technology student consider it as the most important for their research compare to other disciplines. Less number of students are using metasearch and alter services to collect update information.

Anna (2008) indicated that user's perception is defer by the institute to institute and the services they offered. Further, users have positive attitude towards digital library but at the same time most of them are unaware about various services offered by the digital library. It is also found that interface considered to be an important factor to use digital library.

2.3 EXISTING SYSTEMS

The Existing system has a lot of redundancies and inconsistencies. A lot of work force is deployed to drive the library efficiently. All the data management is done over papers. It becomes very difficult to respond at once how many copies of a particular book are there or is the book available with the library or not. The Book issuing, returning and advance booking also involves ambiguity at many levels. For any report to be prepared, it takes around 2-3 days for completion. The whole system needs to be optimized to a good level which exactly what this project is going to do.

2.4 DRAWBACKS IN EXISTING SYSTEMS

- Lot of redundancies and inconsistencies
- Work force is deployed to drive the library efficiently
- The Book issuing, returning and advance booking also involves ambiguity at many levels

2.5 SUMMARY

The project will be a web based project with a database server responsible for maintaining every single detail of the Library. It has a very user friendly interface which can easily be operated by any non-technical person. It will make the Library management more efficient, responsive and less time consuming with high level of accuracy. Any person can inquire about the books with a single mouse click. Issuing of books, returning of books and fine generation will become simple and easy.

At the beginning, technological obstacles were dominant, but they have generally been overcome by progress in computers, networks, and algorithms.

- Economic issues have also faded, although “open access” questions are still debated.
- Surprisingly, libraries are now faced with more serious legal obstacles than first expected no one today can start a digital library effort without thinking about copyright.
- Social issues are likely to be the next set of challenges.

CHAPTER 3

PROPOSED SYSTEM

3.1 PROPOSED SYSTEM

Requirements Gathering: The first phase involves understanding the requirements of the library, including user needs and the resources to be made available. This phase may involve consultation with library staff, stakeholders, and end-users to identify the essential features and functionalities that the system should provide.

System Design: In this phase, the system architecture and database design are developed. The design should ensure that the system meets the requirements gathered in the previous phase. The design should also incorporate security measures to ensure the protection of sensitive data.

Development: In this phase, the system is developed, including coding and testing of the system components. The development phase may involve the use of programming languages and frameworks to build the system.

System Testing: Once the system is developed, it is subjected to a series of tests to ensure that it meets the requirements and functions as expected. The system is tested for usability, functionality, performance, and security.

Deployment: Once the system is tested and meets the requirements, it is deployed on a web server, and the necessary infrastructure is set up. The system is then made available to end-users, who can access the system through a web browser.

Maintenance and Support: Once the system is deployed, it is necessary to provide maintenance and support to ensure that it continues to function correctly. This may include providing regular updates and fixes to the system and providing technical support to end-users.

Overall, the proposed methodology for developing a Digital Library Management System involves a structured approach to ensure that the system meets the requirements of the library, is secure, and provides an optimal user experience.

3.2 PROPOSED METHODOLOGY

The original data will be divided into student and admin cases as part of our books storing processing goal. At signifying rates of 25GB or more, this system will execute and process the input data from the User in java binding data in real time scenarios. The sensor was fitted to a book in order to align the accelerometer's axis and guarantee that the response of acceleration data is accurately specified. The categorization of the fall detection utilized the 3-axis acceleration signals from the MEMS accelerometer and the ground speed from the kadans' module.

3.2 PROPOSED BLOCK DIAGRAM

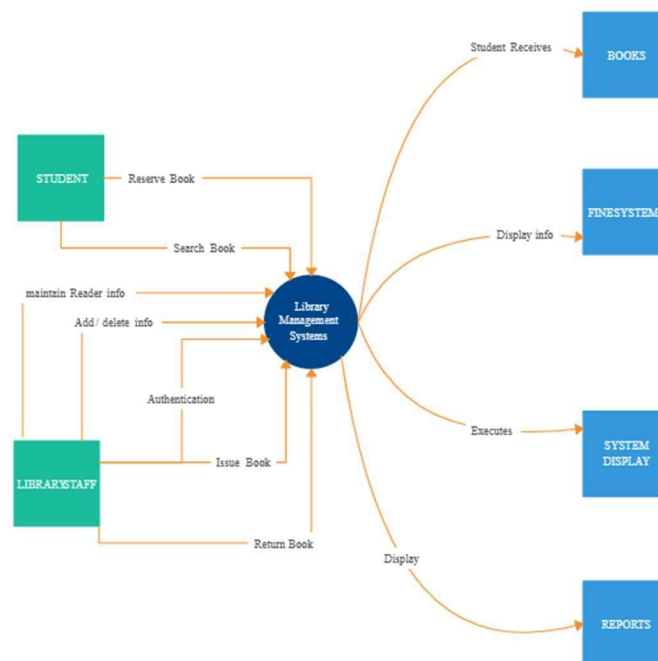


Figure 3.1: Structure Diagram

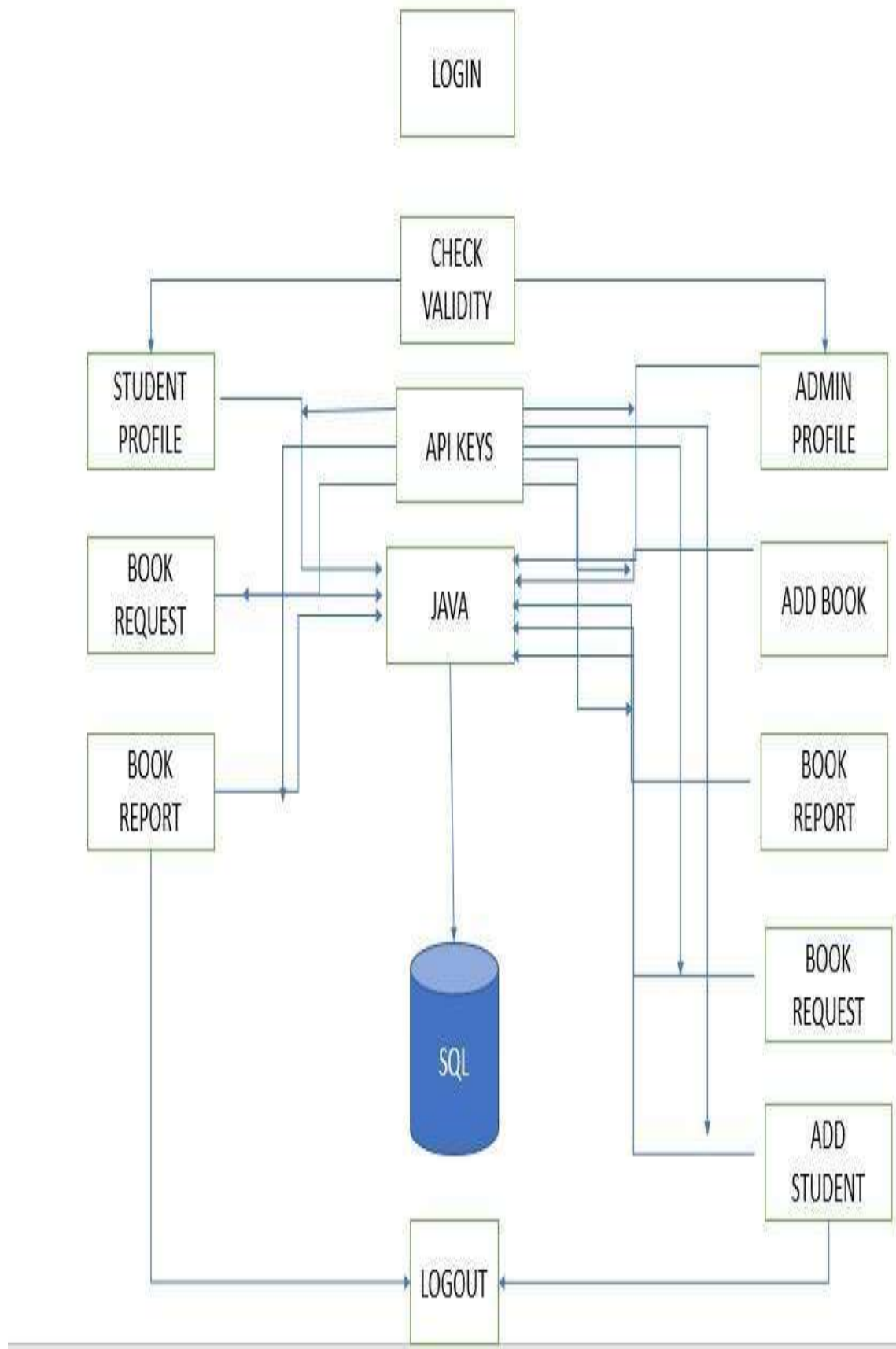


Figure 3.2 Block Diagram

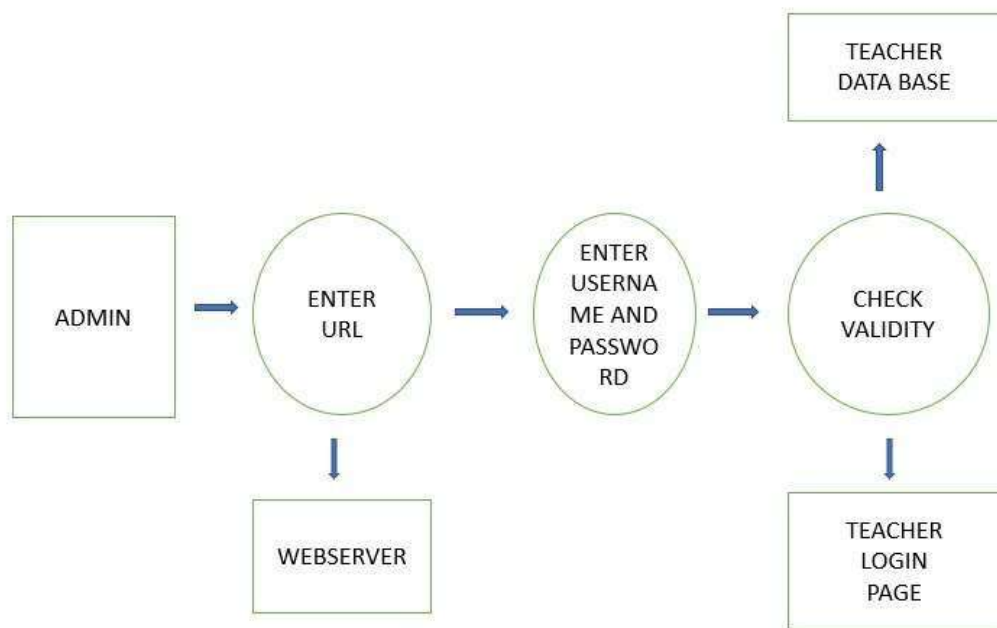


Figure 3.3 Block Diagram of Admin Section

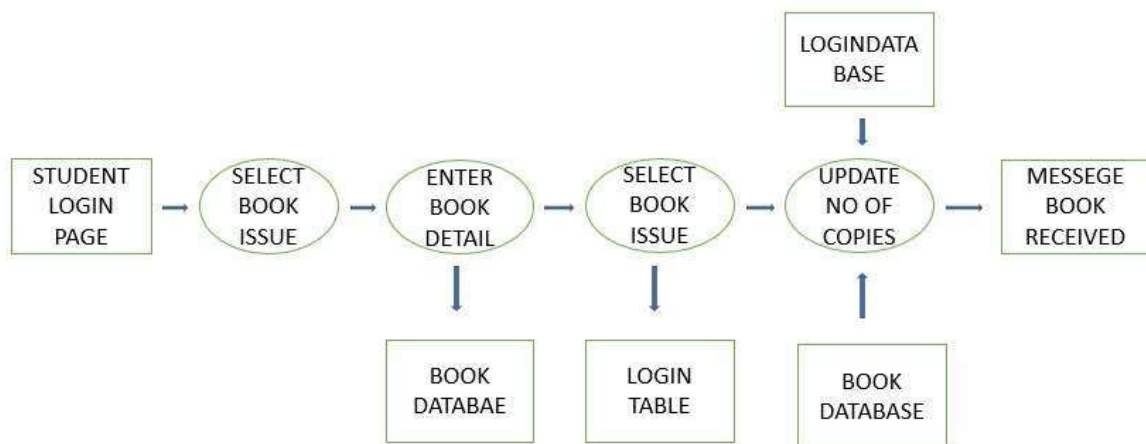


Figure 3.4 Block Diagram of Student Section

3.6 SUMMARY

Digital libraries provide users with online access to a wide range of resources. They are often used by students for research or by professionals seeking to stay current on the latest developments in their field

Digital libraries can be accessed from any computer or device with an internet connection, meaning that there is no need to physically visit the library or store materials to access them.

For librarians, this definition of a digital library, and these characteristics, are the most logical because it expands and extends the traditional library, preserves the valuable work that they do, while integrating new technologies, new processes, and new media

CHAPTER 4

SOFTWARE DESCRIPTION

4.1 INTRODUCTION

What is a digital library? There is much confusion surrounding this phrase, stemming from three factors. First, the library community has used several different phrases over the years to denote this concept— electronic library, virtual library, library without walls and it never was quite clear what each of these different phrases meant. “Digital library” is simply the most current and most widely accepted term and is now used almost exclusively at conferences, online, and in the literature. Another factor adding to the confusion is that digital libraries are at the focal point of many different areas of research, and what constitutes a digital library differs depending upon the research community that’s describing it (Nurnberg, et al, 1995).

Example:

- From an information retrieval point of view, it is a large database
- For people who work on hypertext technology, it is one particular application of hypertext methods
- For those working in wide-area information delivery, it is an application of the Web
- For library science, it is another step in the continuing automation of libraries that began over 25 years ago

In fact, a digital library is all of these things. These different research approaches will all add to the development of digital libraries. Third, confusion arises from the fact that there are many things on the Internet that people are calling “digital libraries,” which □ from a librarian’s point of view □ are not.

Example:

- For computer scientists and software developers, collections of computer algorithms or software programs are digital libraries.
- For database vendors or commercial document

4.2 SECTIONS

- i) Frontend
- ii) Backend
- iii) Database

4.2.1 FRONTEND

HTML:

HTML stands for Hypertext Markup Language and is used to create the structure of web pages. It provides a way to define the different parts of a web page such as headings, paragraphs, images, links, and forms.

CSS:

CSS stands for Cascading Style Sheets and is used to add styling to web pages. It provides a way to control the appearance of elements on a web page such as font size, color, spacing, and layout.

JavaScript:

JavaScript is a programming language that is commonly used in front-end development. It provides a way to add interactivity to web pages such as animations, user input validation, and dynamic content loading.

Responsive Design:

Responsive design is a technique used to ensure that web pages look good and function well on a variety of devices, including desktop computers, tablets, and smartphones. It involves designing web pages to adapt to different screen sizes and orientations.

Web Accessibility:

Web accessibility is the practice of making web content and functionality available to people with disabilities. This involves ensuring that web pages can be navigated using assistive technologies such as screen readers, and that content is presented in a way that is easy to understand for people with different abilities.

Frameworks and Libraries:

There are a variety of front-end frameworks and libraries that can be used to simplify and speed up the development process. Some popular options include React, Angular, Vue, and jQuery. These tools provide pre-built components and functionality that can be easily integrated into web applications.

4.2.1.1 STUDENT SECTION

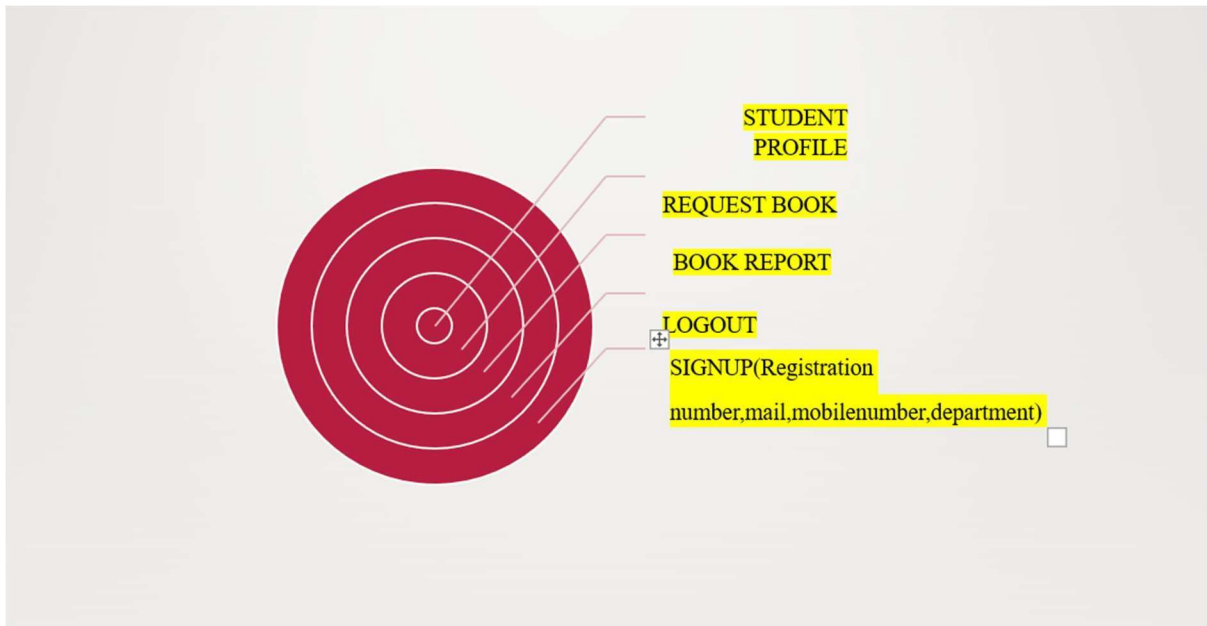


Figure 4.2.1 Student Section

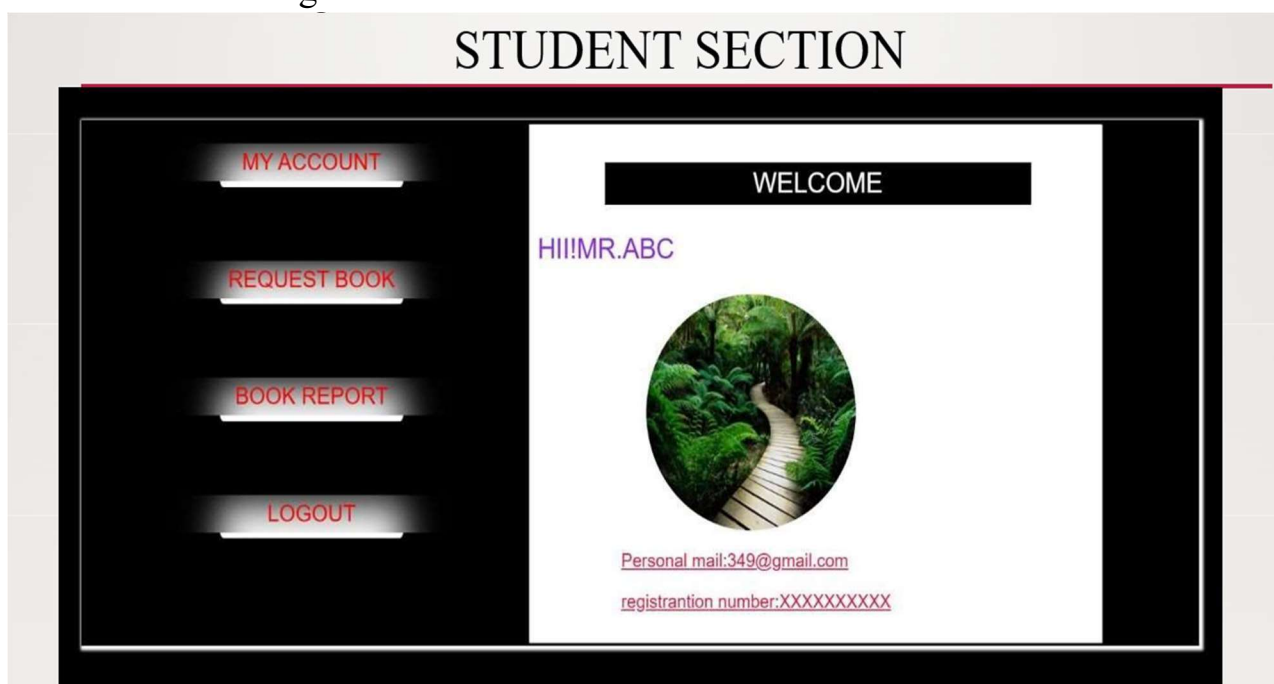
- Student Profile
- Request Book
- Book Report
- Log Out
- Sign Up(Registration number, Mobile number,Department,Mail)

4.2.1.2 ADMIN SECTION

- Admin profile
- Add Book
- Book Report
- Add Student
- Visiting Report
- Issue Book
- Issue Report
- Log Out
- Sign Up



Figure 4.2.2.1 Admin Section



4.2.2.1 BACKEND

Java:

Java is used as back end language in this project by connecting the various api keys throughout the all the front end web pages to make them in a series manner to make the user queries as simple as possible

These are the few snapshots of how the java internally works

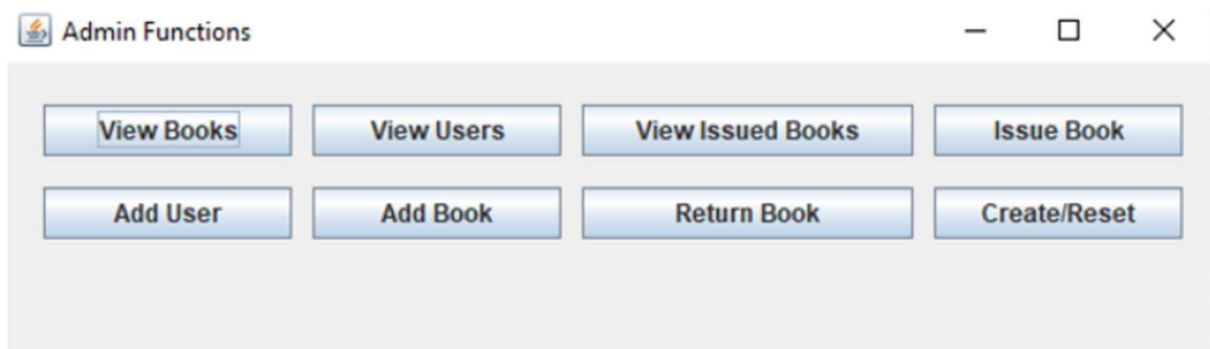


Figure 4.2.2.1 Java Index

Algorithms:

- 1.Kadans Algorithm
- 2.Brute-force Algorithm

Kadans Algorithm:

By using the kadans algorithm we make the all over the data that was stored in the library will be goes to less memory as possible to avoid the memory wastage and make the functions as past as possible

Brute-force Algorithm:

By using this algorithm we maintain the all related data under one section by purely avoid the redanduncy and null pointers

4.2.3 DATABASE :

SQL:

By using the sql we store all the records throughout the admin section and student section

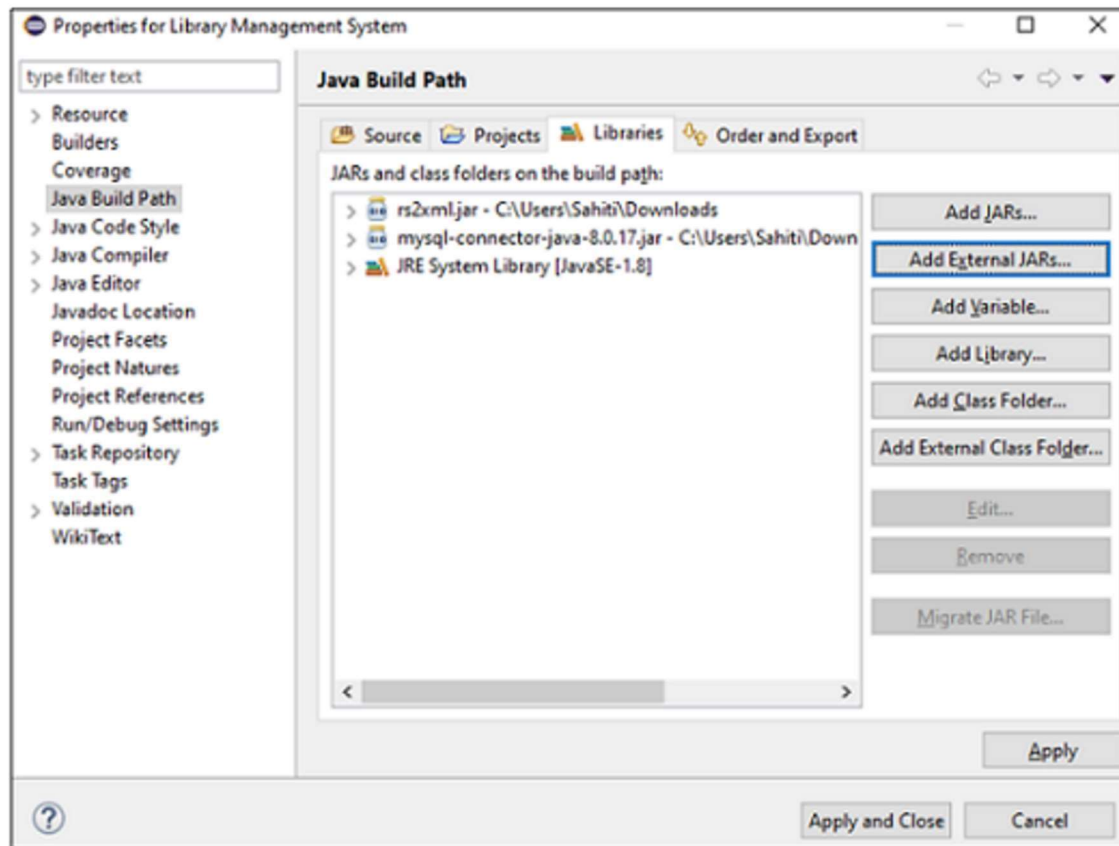


Figure 4.2.3 Data Base

4.2.3.1 SQL JAVA CONNCETION BY USING JDK

All the related sql queries they were used to store the records in the institution repository that will keep under java methods and connect them by using jdk(java development kit) that will causes to decrease the time and space in resultant it will causes better experience and better results to a user.

4.3 SPECIFICATAIONS

1. No Physical Restrictions
2. Multiple Access
3. Easy-to-Use
4. Conservation and Preservation
5. No Limitation of Space
6. Scope of Improvement

7. More Than a Library

8. Not Time-Bound

Several terms have been coined at different times to represent the concept of library without books, libraries having information in computer-readable format or having access to information in digitized or digital format..

The terms which have been in vogue at different times include: paperless library, electronic library, virtual library, library without boundaries and more recently, digital library.

The term digital library, on one hand, is used to refer to a system or applications whose function is chiefly to extend electronic access to material available in a conventional library to a remote user

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On the other hand, it is used to describe both commercial and academic systems designed to enable electronic access to a large corpora-of electronic documents to authorized users.

CHAPTER 5 PROGRAMS

5.1 INTRODUCTION

A digital library, also called an online library, an internet library, a digital repository, a library without walls, or a digital collection is an online database of digital objects that can include text, still images, audio, video, digital documents, or other digital media formats or a library accessible through the internet.

Objects can consist of digitized content like print or photographs, as well as originally produced digital content like word processor files or social media posts. In addition to storing content, digital libraries provide means for organizing, searching, and retrieving the content contained in the collection.

Digital libraries can vary immensely in size and scope, and can be maintained by individuals or organizations. The digital content may be stored locally, or accessed remotely via computer networks. These information retrieval systems are able to exchange information with each other through interoperability and sustainability.

5.1.1 FRONTEND

HTML,CSS,JAVASCRIPT

HTML

LOGIN FORM

```
<html>
<head>
  <link rel="stylesheet" href="login form.css">
  <link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Sofia&effect=fire">
</head>
<body style="background-image:
url(http://4.bp.blogspot.com/g3oxWtf7aIo/U05SkZ6uLxI/AAAAAAASig/J1_
ccoCg2jA/s1600/Library+1.j pg);">
  <section>
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<h1 class="glow">HINDUSTAN INSTITUTE OF
TECHNOLOGY</h1>

<!-- <h1 > DIGITAL LIBRARY </h1> -->

</section>

```

    <h2 ><marquee style="width:75%;font-family: sans-
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```

```

    <div class="student" style="margin-left: 300px;border-style:
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```

```

<div class="wrapper">

```

```

    <div class="text-center mt-4 name">

```

```

        STUDENT LOGIN

```

```

    </div>

```

```

    <div class="logo">

```

```

```

```

    </div><br>

```

```

    <form class="p-3 mt-3">

```

```

        <div class="form-field d-flex align-items-center">

```

```

            <span class="far fa-user"></span>

```

```

            <input type="text" name="userName" id="userName"
placeholder="Username">

```

```

        </div>

```

```

        <div class="form-field d-flex align-items-center">

```

```

            <span class="far fa-user"></span>

```

```

            <input type="text" name="Registration Number" id=""
placeholder="Registration Number">

```

```

        </div>

```

```

        <div class="form-field d-flex align-items-center">

```

```

            <span class="fas fa-key"></span>

```

```

            <input type="password" name="password" id="pwd"
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```

```

        </div>

```

```

        <button class="btn mt-3"style="color:white;text-decoration:none;cursor:
pointer;"><a
href="file:///C:/Users/gopir/Desktop/New%20folder%20(3)/student%20account
%201234.html"
target="_blank"style="color:white;textdecoration:none;">Login</a></button>
    </form>

```

```

<div class="text-center fs-6">
  <a href="#">Forget password?</a> or <a href="#">Sign up</a>
</div>
</div>
</div>
<div class="admin">
<div class="wrapper">
  <div class="text-center mt-4 name">
    ADMIN LOGIN
  </div>
  <div class="logo">
    <img
src="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAOEAAAD
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```


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</div>


```

<form class="p-3 mt-3">
  <div class="form-field d-flex align-items-center">
    <span class="far fa-user"></span>
    <input type="text" name="userName" id="userName"
placeholder="Username">
  </div>
  <div class="form-field d-flex align-items-center">
    <span class="far fa-user"></span>
    <input type="mail" name="Gmail" id="userName"
placeholder="Gmail">
  </div>
  <div class="form-field d-flex align-items-center">
    <span class="fas fa-key"></span>
    <input type="password" name="password" id="pwd"
placeholder="Password">
  </div>
  <button class="btn mt-3">Login</button>
</form>
<div class="text-center fs-6">
  <a href="#">Forget password?</a> or <a href="#">Sign up</a>
</div>
</div>
</bg>
</div>
</body>
</html>

```

5.1.2 STUDENTSECTION

5.1.2.1 STUDENT PROFILE

<html>

<style>

*{

font-family: 'Poppins', sans-serif;

}

table,th,td{

padding: 10px 30px 10px 50px;

}

.btn{ width:
400px; height:
40px; font-size:
25px;

background: none;

border: none;

color:red;

position: relative;

cursor: pointer;

margin-left: 10px;

margin-top: 10px;

}

.btn::before,.btn::after{

content: "; position:

absolute; top: 0;

left: 0;

width: 100%; height:
100%; background:

#00000000; backdrop-

filter: blur(20px); border-

radius: 10px; z-index: -2;

```

    }
    .btn::after{    width:
110%;    height: 90%;
top: 25%;    left: -5%;
background:white;    z-
index: -3;    transform:
scaleX(0.5);
transition: all .6s;
    }
    .btn:hover::after{
        transform: scaleX(1.09) translateY(-20px);
        font-size: 40px;
    }
    .column{
        float: left;
        padding: 10px;
    }
    .column.left{
        width: 50%;
    }
    .column.right{
        width: 50%;
    }
    .row::after{
content: "";    clear:
both;    display:
table;
    }
    @media screen and(max-width:600px) {
.column.left,.column.right{
        width: 100%;
    }

}
</style>
<body style="background-color:black;padding: 45px 45px;">
<div class="row" style="box-shadow:2px 2px 3px 3px white;padding: 5px
5px;margin-top: 2px;">
    <section style=" width: fit-content;margin-left: 50px;" class="column left">
<table >

```

```

        <button    class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/student%20account%2012.html"target="_blank"                style="color:
red;text-decoration:none;">MY
ACCOUNT</a></button><br><br><br><br><br>
        <button                                class="btn"><a
href="file:///C:/Users/gopir/Desktop/New%20folder%20(3)/BOOK%20REQUE
ST%20STUDENT%20A123.html"                target="_blank"style="text-decoration:
none;color:red;">REQUEST BOOK</a></button><br><br><br><br><br>
        <button                                class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/BOOK%20REPORT%20STUDENTA12.html"target="_blank"
style="text-decoration:    none;color:red;">BOOK
REPORT</a></button><br><br><br><br><br>

        <button    class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/logout%20page.html" target="_blank"style="text-decoration:
none;color:red;">LOGOUT</a></button>

</table>
</section>
<div class="column right" style="background-color: white;box-shadow: 1px
1px 1px 1px white;margin-left: 50px;">
    <P style="color:  white;font-size: 30px;background-color:black;width:
500px;text-align: center;margin-left: 80px;padding: 5px 5px;">WELCOME</P>
    <P style="color:blueviolet;font-size:30px;">HII!MR.ABC</P>
    

    <p style="color:crimson;font-size:20px;margin-left:100px;text-decoration:
underline;cursor: pointer;">Personal mail:349@gmail.com</p>
    <P style="color:crimson;font-size:20px;margin-left:100px;text-decoration:
underline;cursor: pointer;">registrantion number:XXXXXXXXXXXX</P>
</div>
</div>
</body>
</html>

```


5.1.2.2 REQUEST BOOK

```
<html>
```

```
<style>
```

```
*{
```

```
font-family: 'Poppins', sans-serif;
```

```
}
```

```
table,th,td{
```

```
padding: 10px 30px 10px 50px;
```

```
}
```

```
.btn{ width:  
400px; height:  
40px; font-size:  
25px;
```

```
background: none;
```

```
border: none;
```

```
color:white;
```

```
position: relative;
```

```
cursor: pointer;
```

```
margin-left: 10px;
```

```
margin-top: 10px;
```

```
}
```

```
.btn::before,.btn::after{
```

```
content: "; position:
```

```
absolute; top: 0;
```

```
left: 0;
```

```
width: 100%;
```

```
height: 100%;
```

```
background:
```

```
#00000000;
```

```
backdrop-filter:
```

```
blur(20px); border-
```

```
radius: 10px;
```

```

    z-index: -2;
}
.btn::after{
width: 110%;
height: 90%;
top: 25%;
    left: -5%;
background:yellow;    z-
index: -3;    transform:
scaleX(0.5);
transition: all .6s;
}
.btn:hover::after{
    transform: scaleX(1.09) translateY(-20px);    font-
size: 40px;
}
.column{
    float: left;
    padding: 10px;
}
.column.left{
    width: 50%;
}
.column.right{
    width: 50%;
}
.row::after{
content: "";    clear:
both;    display:
table;
}
@media screen and(max-width:600px) {
    .column.left,.column.right{
width: 100%;
    }
}
</style>
<body style="background-color:gray;padding: 45px 45px;">
<div class="row" style="box-shadow:2px 2px 3px 3px white;padding: 5px
5px;margin-top: 2px;">

```



```

<section style=" width: fit-content;margin-left: 50px;" class="column left">
<table >
    <button class="btn"><a href=""
style="color:white;text-decoration:none;">MY
ACCOUNT</a></button><br><br><br><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/BOOK%20REQUEST%20STUDENT%20A12.html" style="text-decoration:
none;color:white;">REQUEST BOOK</a></button><br><br><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/BOOK%20REPORT%20STUDENTA12.html" style="text-decoration:
none;color:white;">BOOK REPORT</a></button><br><br><br><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/logout%20page.html" target="_blank" style="text-decoration:
none;color:white;">LOGOUT</a></button>

</table>
</section>
<div class="column right" style="background-color:green;box-shadow: 1px
1px 1px 1px white;margin-left: 50px;">
    <P style="color: white;background-
color:blue;width:400px;marginleft:80px;padding:5px 5px;font-size:30px;text-
align: center;box-shadow: 2px
2px 2px 2px yellow;">BOOK REQUEST</P>
    <p style="font-size: 30px;color:white;margin-left: 17px;">Book
name:<input type="text" style="padding:10px 10px;width:400px;color:
black;margin-left:0px;"></p>
    <p style="font-size: 30px;color:white;">Author name:<input type="text"
style="padding:10px 10px;width:400px;color: black;"></p>
    <button style="color:white;border-radius:5px;backgroundcolor:red;margin-
left:200px;padding:5px 5px;font-size:20px;"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/BOOK%20REQUEST%20SUB%20STUDENTA1.html"
style="color:white;text-decoration:none;">SUBMIT</a></button>
</div>
</div>
</body>

```

</html>

5.1.2.3 BOOK REQUEST SUB:

<html>

<style>

*{

font-family: 'Poppins', sans-serif;
}
table,th,td{

padding: 10px 30px 10px 50px;

}

.btn{ width:
400px; height:
40px; font-size:
25px;
background: none;
border: none;
color:white;
position: relative;
cursor: pointer;
margin-left: 10px;
margin-top: 10px;
}
.btn::before,.btn::after{
content: "; position:
absolute; top: 0;
left: 0;
width: 100%; height:
100%; background:

```

#00000000; backdrop-
filter: blur(20px); border-
radius: 10px; z-index: -2;
}
.btn::after{
width: 110%;
height: 90%; top:
25%;
left: -5%;
background:yellow; z-
index: -3; transform:
scaleX(0.5);
transition: all .6s;
}
.btn:hover::after{
transform: scaleX(1.09) translateY(-20px); font-
size: 40px;
}
.column{
float: left;
padding: 10px;
}
.column.left{
width: 50%;
}
.column.right{
width: 50%; }
.row::after{
content: ""; clear:
both; display:
table;
}
@media screen and(max-width:600px) {
.column.left,.column.right{
width: 100%;
}
}
</style>
<body style="background-color: gray;padding: 45px 45px;">
<div class="row" style="box-shadow:2px 2px 3px 3px white;padding: 5px;">

```

```

<section style=" width: fit-content;margin-left: 50px;" class="column
left">
  <table >
    <button class="btn"><a style="color:white;text-decoration:none;">MY
ACCOUNT</a></button><br><br><br><br><br>
    <button class="btn">REQUEST BOOK</button><br><br><br><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/BOOK%20REPORT%20STUDENTA12.html"style="color:white;textdecorat
ion:none;">BOOK REPORT</a></button><br><br><br><br><br>

    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/logout%20page.html"style="color:white;text-decoration:none;">LOGOUT</a
></button>

  </table>
</section>
<div class="column right" style="background-color: green;width:
700px;;boxshadow: 2px 2px 2px 2px black;margin-left: 40px;">
  <p style="color: white;font-size:30px;background-color: blue;padding: 10px
10px 10px 10px;text-align: center;box-shadow: 1px 1px 1px 1px rgb(202, 226,
43);">WIRELESS NETWORKS</p>
  <tr>
    <button style="background-
color:red;color:white;fontsize:30px;padding:5px 5px;border-radius:5px
5px;cursor: pointer;justifycontent: center;margin-left: 300px;"><a
href="http://cdn.ttgtmedia.com/searchNetworking/downloads/wireless_sample.
pdf" style="color: white;text-decoration:none;"
target="_blank">VIEW</a></button>
  </tr>
</div>
</div>

</body>
</html>

```

5.1.2.4 BOOK REPORT STUDENT:

```
<html>
<style>

    *{

font-family: 'Poppins', sans-serif;
    }
table,th,td{

padding: 10px 30px 10px 50px;


}

.btn{ width:
400px; height:
40px; font-size:
25px;
background: none;
border: none;
color:white;
position: relative;
cursor: pointer;
margin-left: 10px;
margin-top: 10px;
}
.btn::before,.btn::after{
content: "; position:
absolute; top: 0;
left: 0;
width: 100%; height:
100%; background:
#00000000; backdrop-
```

```

filter: blur(20px); border-
radius: 10px; z-index: -2;
}
.btn::after{
width: 110%;
height: 90%; top:
25%;
left: -5%;
background:yellow; z-
index: -3; transform:
scaleX(0.5);
transition: all .6s;
}
.btn:hover::after{
transform: scaleX(1.09) translateY(-20px); font-
size: 40px;
}
.column{
float: left;
padding: 10px;
}
.column.left{
width: 50%;
}
.column.right{
width: 50%; }
.row::after{
content: ""; clear:
both; display:
table;
}
@media screen and(max-width:600px) {
.column.left,.column.right{
width: 100%;
}
}
</style>
<body style="background-color: gray;padding: 45px 45px;">

```



```

<div class="row" style="box-shadow:2px 2px 3px 3px white;padding:
5px;">
  <section style=" width: fit-content;margin-left: 50px;" class="column
left">
    <table >
      <button class="btn"><a style="color:white;text-decoration:none;">MY
ACCOUNT</a></button><br><br><br><br><br>
      <button class="btn">REQUEST BOOK</button><br><br><br><br><br>
      <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/BOOK%20REPORT%20STUDENT12.html"style="color:white;textdecorat
ion:none;">BOOK REPORT</a></button><br><br><br><br><br>

      <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/logout%20page.html"style="color:white;text-decoration:none;">LOGOUT</a
></button>

    </table>
  </section>
  <div class="column right" style="background-color: green;width:
700px;;boxshadow: 2px 2px 2px 2px black;margin-left: 40px;">
    <p style="color: white;font-size:30px;background-color: blue;padding: 10px
10px 10px;text-align: center;box-shadow: 1px 1px 1px 1px rgb(202, 226,
43);">WIRELESS NETWORKS</p>
    <tr>
      <button style="background-
color:red;color:white;fontsize:30px;padding:5px 5px;border-radius:5px
5px;cursor: pointer;justifycontent: center;margin-left: 300px;"><a
href="http://cdn.ttgtmedia.com/searchNetworking/downloads/wireless_sample.
pdf" style="color: white;text-decoration:none;"
target="_blank">VIEW</a></button>
    </tr>
  </div>
</div>

</body>
</html>

```

5.1.2.5 BOOK REPORT STUDENT SUB:

```
<html>
  <style>

    *{

      font-family: 'Poppins', sans-serif;

    }
table,th,td{

  padding: 10px 30px 10px 50px;

}

.btn{  width:
400px;  height:
40px;   font-size:
25px;
background: none;
border: none;
color:white;
position: relative;
cursor: pointer;
margin-left: 10px;
  margin-top: 10px;
}
.btn::before,.btn::after{
content: ";    position:
absolute;     top: 0;
left: 0;
```

```

    width: 100%;    height:
100%;    background:
#00000000;    backdrop-
filter: blur(20px);    border-
radius: 10px;
    z-index: -2;
}
.btn::after{
width: 110%;
height: 90%;    top:
25%;
    left: -5%;
background:yellow;    z-
index: -3;    transform:
scaleX(0.5);
transition: all .6s;
}
.btn:hover::after{
    transform: scaleX(1.09) translateY(-20px);    font-
size: 40px;
}
.column{
    float: left;
    padding: 10px;
}
.column.left{
    width: 50%;
}
.column.right{
    width: 50%;
}
.row::after{
content: "";    clear:
both;    display:
table;
}
@media screen and(max-width:600px) {
    .column.left,.column.right{
width: 100%;
}

```

```

    }
    </style>
    <body style="background-color: gray;padding: 45px 45px;">
        <div class="row" style="box-shadow:2px 2px 3px 3px white;padding:
5px;">
            <section style=" width: fit-content;margin-left: 50px;" class="column
left">
                <table >
                    <button                                class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/student%20account%201.html"target="_blank"
style="color:white;text-decoration:none;">MY
ACCOUNT</a></button><br><br><br><br><br>
                    <button                                class="btn"><a
href="file:///C:/Users/gopir/Desktop/FINAL%20PROJECT/BOOK%20REQUE
ST%20STUDENT%20A.html"target="_blank"          style="text-decoration:
none;color: white;">REQUEST BOOK</button></a><br><br><br><br><br>
                    <button                                class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/BOOK%20REPORT%20STUDENTA.html"target="_blank"
style="text-decoration: none;color: white;">BOOK
REPORT</button></a><br><br><br><br><br>

                    <button                                class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/logout%20page.html"style="text-
decoration:none;color:white;">LOGOUT</button></a>

                </table>
            </section>
            <div class="column right" style="background-color: green;width:
750px;boxshadow: 2px 2px 2px 2px black;margin-left:10px;">
                <p style="color: white;font-size:30px;background-color: blue;padding: 10px
10px 10px 10px;text-align: center;box-shadow: 1px 1px 1px 1px rgb(202, 226,
43);">MR.XYZ</p>
                <table>
                    <tr>
                        <th style="color:rgb(255, 0, 0);margin-left:30px;font-size: 20px;">Book
Name</th>

```

```

        <th style="color:red;margin-left:30px;font-size: 20px;">Reading
Date</th>
        <th style="color:red;margin-left:30px; font-size:
20px;">Downloaded</th>
        <th style="color:red;margin-left:30px;font-size: 20px;">Review</th>

</tr>
<tr style="color: white;">
    <td>WPS</td>
    <td>11/08/2022</td>
    <td>Yes</td>
    <td>Good</td>

</tr>
<tr style="color: white;">
    <td>WN</td>
    <td>10/08/2022</td>
    <td>Yes</td>
    <td>SomeSpellingMistakes</td>

</tr>
<tr style="color: white;">
    <td>VLSI</td>
    <td>10/08/2022</td>
    <td>No</td>
    <td>COncepts Not Understand</td>

</tr>
<tr style="color: white;">
    <td>PYTHON</td>
    <td>09/08/2022</td>
    <td>Yes</td>
    <td>Printing Mistakes</td>

</tr>
<tr style="color: white;">
    <td>JAVA</td>
    <td>08/08/2022</td>
    <td>Yes</td>
    <td>Printing Mistakes</td>

```

```

        </tr>

    </table>
</div>
    </div>
</body>
</html>

</html>

```

5.1.3 ADMIN SECTION:

5.1.3.1 ADMIN PROFILE:

```

<html>

    <style>

        *{

            font-family: 'Poppins', sans-serif;
        }
        table,th,td{

            padding: 10px 30px 10px 50px;

        }

        .btn{    width:
400px;    height:
40px;    font-size:
25px;
background: none;

```



```

border: none;
color: white;
position: relative;
cursor: pointer;
margin-left: 10px;
margin-top: 10px;
}
.btn::before, .btn::after {
content: ""; position:
absolute; top: 0;
left: 0;
width: 100%;
height: 100%;
background: #00000000;
backdrop-filter: blur(20px);
border-radius: 10px; z-
index: -2;
}
.btn::after {
width: 110%;
height: 90%;
top: 25%;
left: -5%;
background: #882891;
z-index: -3; transform:
scaleX(0.5);
transition: all .6s;
}
.btn:hover::after {
transform: scaleX(1.09) translateY(-20px);
font-size: 40px;
}
.column {
float: left;
padding: 10px;
}
.column.left {
width: 50%;
}
.column.right {

```

```

width: 50%;
}
.row::after{
content: ""; clear:
both; display:
table;
}
@media screen and(max-width:600px) {
.column.left,.column.right{
width: 100%;
}

}

</style>
<body style="background-color: gray;padding: 45px 45px;"> <div
class="row" style="box-shadow:2px 2px 3px 3px white;padding: 5px;">
<section style=" width: fit-content;margin-left: 50px;" class="column
left">
<table >
<button class="btn"><a
href="C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSION/AD
MIN%20PAGE%20FINAL%20R1.html" style="color: white;text-decoration:
none;"target="_blank">ADMIN</a></button><br><br>
<button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ADD%20BOOK%20PAGE%20FINAL1.html" style="color:
white;text-decoration: none;"target="_blank">ADD
BOOK</a></button><br><br>
<button class="btn"><a
href="C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSION/BO
OK%20REPORT2.html"style="color: white;text-decoration:
none;"target="_blank">BOOK REPORT</a></button><br><br>
<button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/BOOK%20REQUEST%201.html" style="color: white;text-decoration:
none;"target="_blank">BOOK REQUESTS</a></button><br><br>
<button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ADD%20PERSON%201.html" style="color: white;text-decoration:
none;"target="_blank">ADD STUDENT</a></button><br><br>

```

```

        <button      class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/visiting%20report%201.html"      style="color:      white;text-decoration:
none;"target="_blank">VISITING REPORT</a></button><br><br>
        <button                                  class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ISSUE%20BOOK%201.html"      style="color:      white;text-decoration:
none;"target="_blank">ISSUE BOOK</a></button><br><br>
        <button                                  class="btn"><a
href="file:///C:/Users/gopir/Desktop/New%20folder%20(4)/logout%20page.ht
ml"style="color:  white;text-decoration:
none;"target="_blank">LOGOUT</a></button>
    </table>
</section>
    <div class="column right" style="background-color:green ;margin-left:
50px;box-shadow: 1px 3px 1px 3px black;width: 700px;">
        <p style="color: white;font-size:30px;background-color: blue;padding:
10px 10px 10px 10px;text-align: center;box-shadow: 1px 1px 1px 1px rgb
(202, 226, 43);">WELCOME</p>
        <p style="font-size: 30px;color:white;">Hi!MR.XYZ Welcome to
library!</p>
        
        <p style="margin-left: 260px;font-size: 20px;color: white;">MR.XYZ</p>
        <p style="margin-left: 200px;font-size: 20px;color: white;">Personal
Email:abc@gmail.com</p>
        <P style="margin-left: 200px;font-size: 20px;color: white;">Account
type:Teacher</P>
    </div>
</div>
</body>
</html>

```

5.1.3.2 ADD PERSON:

```

<html>

<style>

```

```

* {

    font-family: 'Poppins', sans-serif;
}
table,th,td{

    padding: 10px 30px 10px 50px;

}

.btn{    width:
400px;    height:
40px;    font-size:
25px;
background: none;
border: none;
color:white;
position: relative;
cursor: pointer;
margin-left: 10px;
    margin-top: 10px;
}
.btn::before,.btn::after{
content: ";    position:
absolute;    top: 0;
left: 0;
    width: 100%;    height:
100%;    background:
#00000000;    backdrop-
filter: blur(20px);    border-
radius: 10px;    z-index: -2;
}
.btn::after{
width: 110%;
height: 90%;
top: 25%;
    left: -5%;
background: #882891;
z-index: -3;    transform:

```

```

scaleX(0.5);
transition: all .6s;
}
.btn:hover::after{
  transform: scaleX(1.09) translateY(-20px);
  font-size: 40px;
}
.column{
  float: left;
  padding: 10px;
}
.column.left{
  width: 50%;
}
.column.right{
  width: 50%;
}
.row::after{
content:    "";
clear:    both;
display: table;
}
@media screen and(max-width:600px) {
  .column.left,.column.right{
width: 100%;
  }
}

</style>
<body style="background-color: gray;padding: 45px 45px;">
  <div class="row" style="box-shadow:2px 2px 3px 3px white;padding:
5px;">
    <section style=" width: fit-content;margin-left: 50px;" class="column
left">
      <table >
        <button
class="btn"><a
href="C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSION/AD
MIN%20PAGE%20FINAL%20R1.html" style="color: white;text-decoration:
none;">ADMIN</a></button><br><br>
        <button
class="btn"><a

```

```

href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ADD%20BOOK%20PAGE%20FINAL1.html" style="color:
white;text-decoration: none;">ADD BOOK</a></button><br><br>
    <button class="btn"><a
href="C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSION/BO
OK%20REPORT2.html" style="color: white;text-decoration:
none;">BOOK REPORT</a></button><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/BOOK%20REQUEST%201.html" style="color: white;text-decoration:
none;">BOOK REQUESTS</a></button><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ADD%20PERSON%201.html" style="color: white;text-decoration:
none;">ADD STUDENT</a></button><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/visiting%20report%201.html" style="color: white;text-decoration:
none;">VISITING REPORT</a></button><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ISSUE%20BOOK%201.html" style="color: white;text-decoration:
none;">ISSUE BOOK</a></button><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/New%20folder%20(4)/logout%20page.ht
ml" style="color: white;text-decoration: none;">LOGOUT</a></button>
</table>
</section>
<div class="column right" style="background-color:green
;margin-left:20px;box-shadow: 1px 3px 1px 3px white;width: 750px;">
    <P style="color: white;font-size:30px;background-color: blue;padding: 10px
10px 10px 10px;text-align: center;box-shadow: 1px 1px 1px 1px rgb(202, 226,
43);">ADD PERSON</P><br><br><br>
    <p style="font-size:20px;color:white;margin-left: 30px;">Name:<input
style="width: 500px;border-radius:5px 5px;padding: 10px 10px;margin-left:
85px;"type="tex" placeholder="enter the student/Teacher name*"></p><br>
    <p style="font-size:20px;color:white;margin-left: 30px;">Email:<input
type="text" style="width: 500px;border-radius:5px 5px;padding: 10px
10px;margin-left: 90px;"placeholder="enter the mail*"></p><br>
    <p style="font-size:20px;color:white;margin-left: 20px;">Password:<input
type="text" style="width: 500px;border-radius:5px 5px;padding: 10px

```



```

10px;margin-left: 60px;"placeholder="enter the password*"></p><br>
    <p style="font-size:20px;color:white;margin-left: 30px;">choose type
    <label for="person"></label>
    <select style="padding: 10px 10px;width:200px;margin-left: 60px;cursor:
pointer;"id="person">
        <option style="padding: 10px 10px; font-size: 20px;" value="select a
person">select a person</option>
        <option style="padding: 10px 10px;font-size: 20px;"
value="student">student</option>
        <option style="padding: 10px 10px;font-size: 20px;"
value="Teacher">Teacher</option>

    </select></p>
    <button style="background-color: red;padding: 15px 15px;margin-left:
220px;font-size: 20px;color: white;width: 200px;cursor: pointer;border: 2px
solid white;"type="text"><a
href="file:///C:/Users/gopir/Desktop/FINAL%20PROJECT/add%20person%20
sub.html"style="color: white;text-decoration: none;">SUBMI</a></button>
    </div>
    </div>

    </body>
</html>

```

5.1.3.3 BOOK REPORT:

```

<html>

<style>

    *{

        font-family: 'Poppins', sans-serif;
    }
table,th,td{

    padding: 10px 30px 10px 50px;

```

```

}

.btn{    width:
400px;    height:
40px;    font-size:
25px;
background: none;
border: none;
color:white;
position: relative;
cursor: pointer;
margin-left: 10px;
margin-top: 10px;
}
.btn::before,.btn::after{
content: ";    position:
absolute;    top: 0;
left: 0;
width: 100%;    height:
100%;    background:
#00000000;    backdrop-
filter:    blur(20px);
border-radius: 10px;
z-index: -2;
}
.btn::after{
width: 110%;
height: 90%;
top: 25%;
left: -5%;
background: #7c2891;
z-index: -3;    transform:
scaleX(0.5);
transition: all .6s;
}
.btn:hover::after{
transform: scaleX(1.09) translateY(-20px);    font-
size: 40px;

```

```

}
.column{
    float: left;
    padding: 10px;
}
.column.left{
    width: 50%;
}
.column.right{
    width: 50%;
}
.row::after{
content: ""; clear:
both; display:
table;
}
@media screen and(max-width:600px) {
    .column.left,.column.right{
width: 100%;
    }
}

</style>
<body style="background-color: rgba(128, 128, 128, 0.979);width:
fitcontent;">
    <div class="row">
        <section style=" width: fit-content;margin-
left:10px;margin-top: 10px;padding: 15px;" class="column left">
            <button class="btn"><a href="" style="color: white;text-decoration:
none;">ADMIN</a></button><br><br>
            <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ADD%20BOOK%20PAGE%20FINAL1.html" style="color:
white;text-decoration: none;">ADD BOOK</a></button><br><br>
            <button class="btn"><a
href="C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSION/BO
OK%20REPORT2.html"style="color: white;text-decoration:
none;">BOOK REPORT</a></button><br><br>
            <button class="btn"><a

```

```

href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/BOOK%20REQUEST%201.html" style="color: white;text-decoration:
none;">BOOK REQUESTS</a></button><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ADD%20PERSON%201.html" style="color: white;text-decoration:
none;">ADD STUDENT</a></button><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/visiting%20report%201.html" style="color: white;text-decoration:
none;">VISITING REPORT</a></button><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ISSUE%20BOOK%201.html" style="color: white;text-decoration:
none;">ISSUE BOOK</a></button><br><br>
    <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/FINAL%20PROJECT/logout%20page.htm
l" style="color: white;text-decoration: none;">LOGOUT</a></button>
</section>
<div style="background-color:
#4dffcdca;width:890px;height:650px;margin-left: 30px;" class="column right">
<p style="justify-content: center; background-color: blue;text-align: center;font-
size: 20px;margin-left: x;color: white;width: 500px;font-size:
20px;padding:2px">BOOK REPORT</p>
    <table style="box-shadow: 1px 1px 1px 3px white;background-color:
#91286c;color: white;">
        <tr style="color: #ff974d;">
            <th>Bookname</th>

            <th>Author</th>

            <th>publishers</th>
            <th>View</th>
            <th>Delete</th>
        </tr>
        <tr>
            <td>wireless Networks</td>

            <td>DR.BabuAlwar</td>
            <td>HIT publisher</td>

```

| | |
|--|--|
| <a _blank"="" href="http://cdn.ttgtmedia.com/searchNetworking/downloads/wireless_sample.pdf" style="text-decoration: none; color: darkblue; target=">view | delete |
| | |
| Fundamentals of wireless Communication | |
| DR.S.RAMYA | |
| HIT publisher | |
| <a _blank"="" href="https://web.stanford.edu/~dntse/papers/press_book.pdf" style="text-decoration: none; color: darkblue; target=">view | delete |
| | |
| VLSI | |
| DR.S.Chinnaparaj | |
| HIT publisher | |
| <a _blank"="" href="https://www.egr.msu.edu/classes/ece410/salem/files/s16/lectures/Ch2_S2_N.pdf" style="text-decoration: none; color: darkblue; target=">view | delete |
| | |
| OPTICAL COMMUNICATION | |
| DR.K.KALPANA | |
| HIT publisher | |
| <a _blank"="" href="https://bharathuniv.ac.in/colleges1/downloads/courseware_ece/notes/BEC701%20%20-%20fibre%20optic%20communication.pdf" style="text-decoration: none; color: darkblue; target=">view | delete |
| | |

| | |
|---|---|
| <tr> | <td>DBMS</td> |
| <td>DR.KALA</td> | <td>HIT publisher</td> |
| <td>view</td> | <td>delete</td> |
| </tr> | </tr> |
| <td>CORE JAVA</td> | <td>DR.LINGUSWAMI</td> |
| <td>HIT publisher</td> | <td>view</td> |
| <td>delete</td> | </tr> |
| </tr> | <td>principles of management</td> |
| <td>DR.A.ABDUL HAYUM</td> | <td>HIT publisher</td> |
| <td>view</td> | <td>delete</td> |
| </tr> | </tr> |
| <td>ADVANCED BEIE</td> | <td>DR.BRINDHA</td> |
| <td>HIT publisher</td> | |


```

        <td><a
                        style="text-decoration: none;color:
darkblue;"href="https://drive.google.com/file/d/0BwfoOoqgJx90VnNrZEdBWS
1qRlk/edit?resourcekey=0-
XLnOSAAqkm5O_u01fH1pUA"target="_blank">view</a></td>
        <td><a
                        style="text-decoration:
none;color:red;"href="#">delete</a></td>
    </tr>
    <td>PYTHON</td>

    <td>DR.SURESH</td>
    <td>HIT publisher</td>
    <td><a
                        style="text-decoration: none;color:
darkblue;"href="https://drive.google.com/file/d/0BwfoOoqgJx90VnNrZEdBWS
1qRlk/edit?resourcekey=0-
XLnOSAAqkm5O_u01fH1pUA"target="_blank">view</a></td>
        <td><a
                        style="text-decoration:
none;color:red;"href="#">delete</a></td>
    </tr>

</table>
</div>
</div>
</body>
</html>

```

5.1.3.4 BOOK REQUEST:

```
<html>
```

```
<style>
```

```
*{
```

```
font-family: 'Poppins', sans-serif;
```

```
} table,th,td{
```

```
padding: 10px 30px 10px 50px;
```

```

}

.btn{ width:
400px; height:
40px; font-size:
25px;
background: none;
border: none;
color:white;
position: relative;
cursor: pointer;
margin-left: 10px;
margin-top: 10px;
}
.btn::before,.btn::after{
content: ""; position:
absolute; top: 0;
left: 0;
width: 100%; height:
100%; background:
#00000000; backdrop-
filter: blur(20px); border-
radius: 10px; z-index: -2;
}
.btn::after{
width: 110%;
height: 90%; top:
25%;
left: -5%;
background:yellow; z-
index: -3; transform:
scaleX(0.5);
transition: all .6s;
}
.btn:hover::after{
transform: scaleX(1.09) translateY(-20px); font-
size: 40px;
}
.column{
float: left;

```

```

padding: 10px;
}
.column.left{
width: 50%;
}
.column.right{
width: 50%; }
.row::after{
content: ""; clear:
both; display:
table;
}
@media screen and(max-width:600px) {
.column.left,.column.right{
width: 100%;
}
}
</style>
<body style="background-color: gray;padding: 45px 45px;">
<div class="row" style="box-shadow:2px 2px 3px 3px white;padding:
5px;">
<section style=" width: fit-content;margin-left: 50px;" class="column
left">
<table >
<button class="btn"><a
href="file:///C:/Users/gopir/Downloads/my%20account.html"
style="color:white;text-decoration:none;">MY
ACCOUNT</a></button><br><br><br><br><br>
<button class="btn">REQUEST BOOK</button><br><br><br><br><br>
<button class="btn">BOOK REPORT</button><br><br><br><br><br>

<button class="btn">LOGOUT</button>

</table>
</section>
<div class="column right" style="background-color: green;width:
800px;boxshadow: 2px 2px 2px 2px black;margin-left:40px;">
<p style="color: white;font-size:30px;background-color: blue;padding: 10px
10px 10px 10px;text-align: center;box-shadow: 1px 1px 1px 1px rgb(202, 226,

```

```

43);">WIRELESS NETWORKS</p>
    <tr>
        <button
            style="background-
color:red;color:white;fontsize:30px;padding:5px
5px;border-radius:5px
5px;cursor:    pointer;justifycontent:    center;margin-left:    300px;"><a
href="http://cdn.ttgtmedia.com/searchNetworking/downloads/wireless_sample.
pdf"    style="color:    white;text-decoration:none;"
target="_blank">VIEW</a></button>
    </tr>
</div>
    </div>

    </body>
</html>

```

ADD PERSON:

```

<html>

    <style>

        * {

            font-family: 'Poppins', sans-serif;
        }
        table,th,td{

            padding: 10px 30px 10px 50px;

        }

        .btn{    width:
400px;    height:
40px;    font-size:
25px;
background: none;
border: none;
color:white;
position: relative;

```

```

cursor: pointer;
margin-left: 10px;
    margin-top: 10px;
}
.btn::before,.btn::after{
content: ";    position:
absolute;    top: 0;
left: 0;
    width: 100%;    height:
100%;    background:
#000000000;    backdrop-
filter: blur(20px);    border-
radius: 10px;    z-index: -2;
}
.btn::after{
width: 110%;
height: 90%;
top: 25%;
    left: -5%;
background: #882891;
z-index: -3;    transform:
scaleX(0.5);
transition: all .6s;
}
.btn:hover::after{
    transform: scaleX(1.09) translateY(-20px);
    font-size: 40px;
}
.column{
    float: left;
    padding: 10px;
}
.column.left{
    width: 50%;
}
.column.right{
    width: 50%;
}
.row::after{
content:    "";

```

```

clear:    both;
display: table;
}
@media screen and(max-width:600px) {
    .column.left,.column.right{
width: 100%;
    }

}

</style>
<body style="background-color: gray;padding: 45px 45px;">
    <div class="row" style="box-shadow:2px 2px 3px 3px white;padding:
5px;">
        <section style=" width: fit-content;margin-left: 50px;" class="column
left">
            <table >
                <button class="btn"><a href="" style="color: white;text-decoration:
none;">ADMIN</a></button><br><br>
                <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ADD%20BOOK%20PAGE%20FINAL1.html" style="color:
white;text-decoration: none;">ADD BOOK</a></button><br><br>
                <button class="btn"><a
href="C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSION/BO
OK%20REPORT2.html" style="color: white;text-decoration:
none;">BOOK REPORT</a></button><br><br>
                <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/BOOK%20REQUEST%201.html" style="color: white;text-decoration:
none;">BOOK REQUESTS</a></button><br><br>
                <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ADD%20PERSON%201.html" style="color: white;text-decoration:
none;">ADD STUDENT</a></button><br><br>
                <button class="btn"><a
href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/visiting%20report%201.html" style="color: white;text-decoration:
none;">VISITING REPORT</a></button><br><br>
                <button class="btn"><a

```

```

href="file:///C:/Users/gopir/Desktop/PROJECTS/PROJECT%20CONCLUSIO
N/ISSUE%20BOOK%201.html" style="color: white;text-decoration:
none;">ISSUE BOOK</a></button><br><br>
<button class="btn"><a
href="file:///C:/Users/gopir/Desktop/FINAL%20PROJECT/logout%20page.htm
l" style="color: white;text-decoration: none;">LOGOUT</a></button>
</table>
</section>
<div class="column right" style="background-color:green
;margin-left:20px;box-shadow: 1px 3px 1px 3px white;width: 750px;">
<P style="color: white;font-size:30px;background-color: blue;padding: 10px
10px 10px 10px;text-align: center;box-shadow: 1px 1px 1px 1px rgb(202, 226,
43);">ADD PERSON</P><br><br><br>
<p style="font-size:20px;color:white;margin-left: 30px;">Name:<input
style="width: 500px;border-radius:5px 5px;padding: 10px 10px;margin-left:
85px;" type="text" placeholder="enter the student/Teacher name*"></p><br>
<p style="font-size:20px;color:white;margin-left: 30px;">Email:<input
type="text" style="width: 500px;border-radius:5px 5px;padding: 10px
10px;margin-left: 90px;" placeholder="enter the mail*"></p><br>
<p style="font-size:20px;color:white;margin-left: 20px;">Password:<input
type="text" style="width: 500px;border-radius:5px 5px;padding: 10px
10px;margin-left: 60px;" placeholder="enter the password*"></p><br>
<p style="font-size:20px;color:white;margin-left: 30px;">choose type
<label for="person"></label>
<select style="padding: 10px 10px;width:200px;margin-left: 60px;cursor:
pointer;" id="person">
<option style="padding: 10px 10px; font-size: 20px;" value="select a
person">select a person</option>
<option style="padding: 10px 10px;font-size: 20px;"
value="student">student</option>
<option style="padding: 10px 10px;font-size: 20px;"
value="Teacher">Teacher</option>

</select></p>
<button style="background-color: red;padding: 15px 15px;margin-left:
220px;font-size: 20px;color: white;width: 200px;cursor: pointer;border: 2px
solid white;" type="text"><a
href="file:///C:/Users/gopir/Desktop/FINAL%20PROJECT/add%20person%20
sub.html" style="color: white;text-decoration: none;">SUBMI</a></button>
</div>

```



```
</div>

</body>
</html>
```

5.2 BACKEND:

5.2.1 LOGIN:

```
import java.awt.event.ActionEvent; import
java.awt.event.ActionListener;
import java.sql.*; import
java.text.DateFormat; import
java.text.ParseException; import
java.text.SimpleDateFormat; import
java.util.ArrayList; import
java.util.Date; import
java.util.Locale; import
java.util.concurrent.TimeUnit;

import javax.swing.*;
import net.proteanit.sql.DbUtils;

public class main {

    public static class ex {
        public static int days=0;
    }

    public static void main(String[] args) {

login();
        //create();
    }
}
```

5.2.2 LOGING FUNCTIONS: FOR ADMIN SECTION STUDENT SECTION

```

public static void login() {

    JFrame f=new JFrame("Login");//creating instance of JFrame
    JLabel l1,l2;
    l1=new JLabel("Username"); //Create label Username
    l1.setBounds(30,15, 100,30); //x axis, y axis, width, height

    l2=new JLabel("Password"); //Create label Password
    l2.setBounds(30,50, 100,30);

    JTextField F_user = new JTextField(); //Create text field for username
    F_user.setBounds(110, 15, 200, 30);

    JPasswordField F_pass=new JPasswordField(); //Create text field for password
    F_pass.setBounds(110, 50, 200, 30);

    JButton login_but=new JButton("Login");//creating instance of JButton for
Login Button
    login_but.setBounds(130,90,80,25);//Dimensions for button
    login_but.addActionListener(new ActionListener() { //Perform action

        public void actionPerformed(ActionEvent e){

            String username = F_user.getText(); //Store username entered by the user in the
variable "username"
            String password = F_pass.getText(); //Store password entered by the user in the
variable "password"

            if(username.equals("")) //If username is null
            {
                JOptionPane.showMessageDialog(null,"Please      enter      username");
//Display dialog box with the message
            }
            else if(password.equals("")) //If password is null
            {
                JOptionPane.showMessageDialog(null,"Please      enter      password");
//Display dialog box with the message
            }
            else { //If both the fields are present then to login the user, check wether the
user exists already
                //System.out.println("Login connect");
            }
        }
    });
}

```

```

        Connection connection=connect(); //Connect to the database
try
{
    Statement stmt = connection.createStatement();
    stmt.executeUpdate("USE LIBRARY"); //Use the database with the name
"Library"
    String st = ("SELECT * FROM USERS
WHERE USERNAME='"+username+"' AND PASSWORD='"+password+"'");
//Retreive username and passwords from users
    ResultSet rs = stmt.executeQuery(st); //Execute query
    if(rs.next()==false) { //Move pointer below
        System.out.print("No user");
        JOptionPane.showMessageDialog(null,"Wrong
Username/Password!"); //Display Message

    }
else {
        f.dispose();          rs.beforeFirst();
//Move the pointer above
        while(rs.next())
        {
            String admin = rs.getString("ADMIN"); //user is admin
            //System.out.println(admin);
            String UID = rs.getString("UID"); //Get user ID of the user
            if(admin.equals("1")) { //If boolean value 1
                admin_menu(); //redirect to admin menu
            }
else{
                user_menu(UID); //redirect to user menu for that user ID
            }
        }
    }
}
catch (Exception ex) {
    ex.printStackTrace();
}
});

```

```

f.add(F_pass); //add password
f.add(login_but); //adding button in JFrame
f.add(F_user); //add user
f.add(l1); // add label1 i.e. for username
f.add(l2); // add label2 i.e. for password

f.setSize(400,180); //400 width and 500 height
f.setLayout(null); //using no layout managers
f.setVisible(true); //making the frame visible
f.setLocationRelativeTo(null);

}

```

5.2.3 CONNECT THE PAGES OF ADMINING AND STUDENT SECTION:

```

public static Connection connect()
{ try
{
    Class.forName("com.mysql.cj.jdbc.Driver");
    //System.out.println("Loaded driver");
    Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/mysql?user=root&password=edureka");
    //System.out.println("Connected to MySQL");
    return con;
}
catch (Exception ex) {
ex.printStackTrace();
}
return null;
}

```

5.2.4 BOOKS STORING USING SQL JDK:

```

public static void create() {
    try {
        Connection connection=connect();
        ResultSet resultSet = connection.getMetaData().getCatalogs();
    }
}

```

```

//iterate each catalog in the ResultSet
while (resultSet.next()) {
    // Get the database name, which is at position 1
    String databaseName = resultSet.getString(1);
    if(databaseName.equals("library")) {
        //System.out.print("yes");
        Statement stmt = connection.createStatement();
        //Drop database if it pre-exists to reset the complete database
        String sql = "DROP DATABASE library";
        stmt.executeUpdate(sql);
    }
}
Statement stmt = connection.createStatement();

String sql = "CREATE DATABASE LIBRARY"; //Create Database
stmt.executeUpdate(sql);          stmt.executeUpdate("USE LIBRARY");
//Use Database
//Create Users Table
String sql1 = "CREATE TABLE USERS(UID INT NOT NULL
AUTO_INCREMENT PRIMARY KEY, USERNAME VARCHAR(30),
PASSWORD VARCHAR(30), ADMIN BOOLEAN)";
stmt.executeUpdate(sql1);
//Insert into users table
stmt.executeUpdate("INSERT INTO USERS(USERNAME,
PASSWORD, ADMIN) VALUES('admin','admin',TRUE)");
//Create Books table
stmt.executeUpdate("CREATE TABLE BOOKS(BID INT NOT NULL
AUTO_INCREMENT PRIMARY KEY, BNAME VARCHAR(50), GENRE
VARCHAR(20), PRICE INT)");
//Create Issued Table
stmt.executeUpdate("CREATE TABLE ISSUED(IID INT NOT NULL
AUTO_INCREMENT PRIMARY KEY, UID INT, BID INT, ISSUED_DATE
VARCHAR(20), RETURN_DATE VARCHAR(20), PERIOD INT, FINE
INT)");
//Insert into books table
stmt.executeUpdate("INSERT INTO BOOKS(BNAME, GENRE, PRICE)
VALUES ('War and Peace', 'Mystery', 200), ('The Guest Book', 'Fiction', 300),
('The Perfect Murder','Mystery', 150), ('Accidental Presidents', 'Biography', 250),
('The Wicked King','Fiction', 350)");

resultSet.close();

```

```

    }
    catch (Exception ex) {
ex.printStackTrace();
    }
}

```

5.2.4 BOOKS MANAGEMENT CONNECTIONS WITH JAVA IN ADMIN SECTION:

```

public static void user_menu(String UID) {

    JFrame f=new JFrame("User Functions"); //Give dialog box name as User
functions
    //f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE); //Exit user menu
on closing the dialog box
    JButton view_but=new JButton("View Books");//creating instance of JButton
view_but.setBounds(20,20,120,25);//x axis, y axis, width, height
view_but.addActionListener(new ActionListener() {      public void
actionPerformed(ActionEvent e){

        JFrame f = new JFrame("Books Available"); //View books stored in
database
        //f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        Connection connection = connect();
        String sql="select * from BOOKS"; //Retreive data from database
try {
            Statement stmt = connection.createStatement(); //connect to database
stmt.executeUpdate("USE LIBRARY"); // use librabry
            stmt=connection.createStatement();
            ResultSet rs=stmt.executeQuery(sql);
            JTable book_list= new JTable(); //show data in table format
book_list.setModel(DbUtils.resultSetToTableModel(rs));

            JScrollPane scrollPane = new JScrollPane(book_list); //enable scroll
bar

            f.add(scrollPane); //add scroll bar
            f.setSize(800, 400); //set dimensions of view books frame
            f.setVisible(true);

```

```

        f.setLocationRelativeTo(null);
    } catch (SQLException e1) {
        // TODO Auto-generated catch block
        JOptionPane.showMessageDialog(null, e1);
    }
}
}
);

JButton my_book=new JButton("My Books");//creating instance of JButton
my_book.setBounds(150,20,120,25);//x axis, y axis, width, height
my_book.addActionListener(new ActionListener() { //Perform action
public void actionPerformed(ActionEvent e){

        JFrame f = new JFrame("My Books"); //View books issued by user
//f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);          int
UID_int = Integer.parseInt(UID); //Pass user ID

        //.iid,issued.uid,issued.bid,issued.issued_date,issued.return_date,issued,
        Connection connection = connect(); //connect to database
        //retrieve data
        String sql="select distinct
issued.*,books.bname,books.genre,books.price from issued,books " + "where
((issued.uid=" + UID_int + ") and (books.bid in
(select bid from issued where issued.uid="+UID_int+"))) group by iid";
String sql1 = "select bid from issued where uid="+UID_int;          try
{
        Statement stmt = connection.createStatement();
        //use database
        stmt.executeUpdate("USE LIBRARY");
stmt=connection.createStatement();
        //store in array
        ArrayList books_list = new ArrayList();

        ResultSet rs=stmt.executeQuery(sql);
        JTable book_list= new JTable(); //store data in table format
        book_list.setModel(DbUtils.resultSetToTableModel(rs));

```

```

//enable scroll bar
JScrollPane scrollPane = new JScrollPane(book_list);

f.add(scrollPane); //add scroll bar
f.setSize(800, 400); //set dimensions of my books frame
f.setVisible(true);
f.setLocationRelativeTo(null);
} catch (SQLException e1) {
    // TODO Auto-generated catch block
    JOptionPane.showMessageDialog(null, e1);
}

}
}
);

```

```

f.add(my_book); //add my books
f.add(view_but); // add view books
f.setSize(300,100); //400 width and 500 height
f.setLayout(null); //using no layout managers
f.setVisible(true); //making the frame visible
f.setLocationRelativeTo(null);
}

```

5.2.5 ADMIN SECTION COMPLETE CODE:

```
public static void admin_menu() {
```

```

    JFrame f=new JFrame("Admin Functions"); //Give dialog box name as admin
    functions

```

```

    //f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE); //

```

```

    JButton create_but=new JButton("Create/Reset");//creating instance of
    JButton to create or reset database create_but.setBounds(450,60,120,25); //x
    axis, y axis, width, height create_but.addActionListener(new ActionListener()
    { //Perform action public void actionPerformed(ActionEvent e){

```



```

        create(); //Call create function
        JOptionPane.showMessageDialog(null,"Database Created/Reset!");
//Open a dialog box and display the message

    }
});

```

```

        JButton view_but=new JButton("View Books");//creating instance of JButton
to view books    view_but.setBounds(20,20,120,25);//x axis, y axis, width,
height    view_but.addActionListener(new ActionListener() {        public void
actionPerformed(ActionEvent e){

```

```

        JFrame f = new JFrame("Books Available");
        //f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

```

```

        Connection connection = connect(); //connect to database
String sql="select * from BOOKS"; //select all books        try
{
        Statement stmt = connection.createStatement();
stmt.executeUpdate("USE LIBRARY"); //use database
        stmt=connection.createStatement();
        ResultSet rs=stmt.executeQuery(sql);
        JTable book_list= new JTable(); //view data in table format
book_list.setModel(DbUtils.resultSetToTableModel(rs));
        //mention scroll bar
        JScrollPane scrollPane = new JScrollPane(book_list);

        f.add(scrollPane); //add scrollpane
        f.setSize(800, 400); //set size for frame
        f.setVisible(true);
        f.setLocationRelativeTo(null);
    } catch (SQLException e1) {
        // TODO Auto-generated catch block
        JOptionPane.showMessageDialog(null, e1);
    }

}
}
);

```

```

        JButton users_but=new JButton("View Users");//creating instance of JButton
to view users
        users_but.setBounds(150,20,120,25);//x axis, y axis, width, height
users_but.addActionListener(new ActionListener() { //Perform action on click
button      public void actionPerformed(ActionEvent e){

                JFrame f = new JFrame("Users List");
                //f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

                Connection connection = connect();
                String sql="select * from users"; //retrieve all users
try {
                Statement stmt = connection.createStatement();
stmt.executeUpdate("USE LIBRARY"); //use database
                stmt=connection.createStatement();
ResultSet rs=stmt.executeQuery(sql);                JTable
book_list= new JTable();
                book_list.setModel(DbUtils.resultSetToTableModel(rs));
                //mention scroll bar
                JScrollPane scrollPane = new JScrollPane(book_list);

                f.add(scrollPane); //add scrollpane
                f.setSize(800, 400); //set size for frame
                f.setVisible(true);
                f.setLocationRelativeTo(null);
        } catch (SQLException e1) {
                // TODO Auto-generated catch block
                JOptionPane.showMessageDialog(null, e1);
        }

        }

        }

    );

        JButton issued_but=new JButton("View Issued Books");//creating instance of
JButton to view the issued books
        issued_but.setBounds(280,20,160,25);//x axis, y axis, width, height
issued_but.addActionListener(new ActionListener() {      public
void actionPerformed(ActionEvent e){

```

```

JFrame f = new JFrame("Users List");
//f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    Connection connection = connect();
String sql="select * from issued";          try
{
    Statement stmt = connection.createStatement();
stmt.executeUpdate("USE LIBRARY");
stmt=connection.createStatement();
    ResultSet rs=stmt.executeQuery(sql);
JTable book_list= new JTable();
    book_list.setModel(DbUtils.resultSetToTableModel(rs));

    JScrollPane scrollPane = new JScrollPane(book_list);

    f.add(scrollPane);
    f.setSize(800, 400);
    f.setVisible(true);
    f.setLocationRelativeTo(null);
} catch (SQLException e1) {
    // TODO Auto-generated catch block
    JOptionPane.showMessageDialog(null, e1);
}

}
}
);

JButton add_user=new JButton("Add User"); //creating instance of JButton to
add users
add_user.setBounds(20,60,120,25); //set dimensions for button

add_user.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e){

        JFrame g = new JFrame("Enter User Details"); //Frame to enter user
details
        //g.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

```

```

        //Create label
JLabel l1,l2;
        l1=new JLabel("Username"); //label 1 for username
l1.setBounds(30,15, 100,30);

        l2=new JLabel("Password"); //label 2 for password
l2.setBounds(30,50, 100,30);

        //set text field for username
JTextField F_user = new JTextField();
F_user.setBounds(110, 15, 200, 30);

        //set text field for password
JPasswordField F_pass=new JPasswordField();
F_pass.setBounds(110, 50, 200, 30);
        //set radio button for admin
JRadioButton a1 = new JRadioButton("Admin");
a1.setBounds(55, 80, 200,30);
        //set radio button for user
JRadioButton a2 = new JRadioButton("User");
a2.setBounds(130, 80, 200,30);
        //add radio buttons
ButtonGroup bg=new ButtonGroup();
bg.add(a1);bg.add(a2);

        JButton create_but=new JButton("Create");//creating instance of
JButton for Create
        create_but.setBounds(130,130,80,25);//x axis, y axis, width, height
create_but.addActionListener(new ActionListener() {

        public void actionPerformed(ActionEvent e){

                String username = F_user.getText();
String password = F_pass.getText();
                Boolean admin = false;

                if(a1.isSelected()) {
admin=true;
                }

```

```

        Connection connection = connect();

try {
    Statement stmt = connection.createStatement();
    stmt.executeUpdate("USE LIBRARY");
    stmt.executeUpdate("INSERT INTO
USERS(USERNAME,PASSWORD,ADMIN) VALUES
("+username+"",""+password+"",""+admin+"");
    JOptionPane.showMessageDialog(null,"User added!");
    g.dispose();

}

catch (SQLException e1) {
    // TODO Auto-generated catch block
    JOptionPane.showMessageDialog(null, e1);
}

});

g.add(create_but);
g.add(a2);
g.add(a1);
g.add(l1);
g.add(l2);
g.add(F_user);
g.add(F_pass);
g.setSize(350,200);//400 width and 500 height
g.setLayout(null);//using no layout managers
g.setVisible(true);//making the frame visible
g.setLocationRelativeTo(null);

}
});

```

```
    JButton add_book=new JButton("Add Book");//creating instance of JButton  
for adding books
```

```
    add_book.setBounds(150,60,120,25);
```

```
    add_book.addActionListener(new ActionListener() {  
public void actionPerformed(ActionEvent e){  
        //set frame wot enter book details  
        JFrame g = new JFrame("Enter Book Details");  
        //g.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
        // set labels  
        JLabel l1,l2,l3;          l1=new JLabel("Book  
Name"); //label 1 for book name          l1.setBounds(30,15,  
100,30);
```

```
        l2=new JLabel("Genre"); //label 2 for genre  
l2.setBounds(30,53, 100,30);
```

```
        l3=new JLabel("Price"); //label 2 for price  
l3.setBounds(30,90, 100,30);
```

```
        //set text field for book name  
        JTextField F_bname = new JTextField();  
        F_bname.setBounds(110, 15, 200, 30);
```

```
        //set text field for genre  
        JTextField F_genre=new JTextField();  
        F_genre.setBounds(110, 53, 200, 30);  
        //set text field for price  
        JTextField F_price=new JTextField();  
        F_price.setBounds(110, 90, 200, 30);
```

```
        JButton create_but=new JButton("Submit");//creating instance of  
JButton to submit details
```

```
        create_but.setBounds(130,130,80,25);//x axis, y axis, width, height  
create_but.addActionListener(new ActionListener() {
```

```
        public void actionPerformed(ActionEvent e){  
            // assign the book name, genre, price  
            String bname = F_bname.getText();  
            String genre = F_genre.getText();
```

```

        String price = F_price.getText();
//convert price of integer to int          int
price_int = Integer.parseInt(price);

        Connection connection = connect();

try {
        Statement stmt = connection.createStatement();
        stmt.executeUpdate("USE LIBRARY");
        stmt.executeUpdate("INSERT INTO
BOOKS(BNAME,GENRE,PRICE) VALUES
("+bname+", "+genre+", "+price_int+)");
        JOptionPane.showMessageDialog(null, "Book added!");
        g.dispose();

    }

    catch (SQLException e1) {
        // TODO Auto-generated catch block
        JOptionPane.showMessageDialog(null, e1);
    }

}

});

        g.add(l3);
        g.add(create_but);
        g.add(l1);
        g.add(l2);
        g.add(F_bname);
        g.add(F_genre);
        g.add(F_price);
        g.setSize(350,200);//400 width and 500 height
        g.setLayout(null);//using no layout managers
        g.setVisible(true);//making the frame visible
        g.setLocationRelativeTo(null);

    }

});

```

```

JButton issue_book=new JButton("Issue Book");//creating instance of
JButton to issue books
issue_book.setBounds(450,20,120,25);

issue_book.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e){
        //enter details
        JFrame g = new JFrame("Enter Details");
        //g.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        //create labels
        JLabel l1,l2,l3,l4;
        l1=new JLabel("Book ID(BID)"); // Label 1 for Book ID
l1.setBounds(30,15, 100,30);

        l2=new JLabel("User ID(UID)"); //Label 2 for user ID
l2.setBounds(30,53, 100,30);

        l3=new JLabel("Period(days)"); //Label 3 for period
l3.setBounds(30,90, 100,30);

        l4=new JLabel("Issued Date(DD-MM-YYYY)"); //Label 4 for issue
date      l4.setBounds(30,127, 150,30);

        JTextField F_bid = new JTextField();
        F_bid.setBounds(110, 15, 200, 30);

        JTextField F_uid=new JTextField();
        F_uid.setBounds(110, 53, 200, 30);

        JTextField F_period=new JTextField();
        F_period.setBounds(110, 90, 200, 30);

        JTextField F_issue=new JTextField();
        F_issue.setBounds(180, 130, 130, 30);

        JButton create_but=new JButton("Submit");//creating instance of
JButton

```



```

        create_but.setBounds(130,170,80,25);//x axis, y axis, width, height
create_but.addActionListener(new ActionListener() {

    public void actionPerformed(ActionEvent e){

        String uid = F_uid.getText();
        String bid = F_bid.getText();
        String period = F_period.getText();
        String issued_date = F_issue.getText();

        int period_int = Integer.parseInt(period);

        Connection connection = connect();

try {
        Statement stmt = connection.createStatement();
        stmt.executeUpdate("USE LIBRARY");
        stmt.executeUpdate("INSERT INTO
ISSUED(UID,BID,ISSUED_DATE,PERIOD)      VALUES
("+uid+", '"+bid+"', '"+issued_date+"', '"+period_int+"")");
        JOptionPane.showMessageDialog(null,"Book Issued!");
g.dispose();

    }

    catch (SQLException e1) {
        // TODO Auto-generated catch block
        JOptionPane.showMessageDialog(null, e1);
    }

});

g.add(l3);
g.add(l4);
g.add(create_but);
g.add(l1);
g.add(l2);
g.add(F_uid);
g.add(F_bid);

```

```

        g.add(F_period);
        g.add(F_issue);
        g.setSize(350,250);//400 width and 500 height
        g.setLayout(null);//using no layout managers
        g.setVisible(true);//making the frame visible
        g.setLocationRelativeTo(null);

    }
});

JButton return_book=new JButton("Return Book"); //creating instance of
JButton to return books
return_book.setBounds(280,60,160,25);

return_book.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e){

        JFrame g = new JFrame("Enter Details");
        //g.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        //set labels
        JLabel l1,l2,l3,l4;
        l1=new JLabel("Issue ID(IID)"); //Label 1 for Issue ID
        l1.setBounds(30,15, 100,30);

        l4=new JLabel("Return Date(DD-MM-YYYY)");
        l4.setBounds(30,50, 150,30);

        JTextField F_iid = new JTextField();
        F_iid.setBounds(110, 15, 200, 30);

        JTextField F_return=new JTextField();
        F_return.setBounds(180, 50, 130, 30);

        JButton create_but=new JButton("Return");//creating instance of
        JButton to mention return date and calculate fine
        create_but.setBounds(130,170,80,25);//x axis, y axis, width, height
        create_but.addActionListener(new ActionListener() {

```

```

        public void actionPerformed(ActionEvent e){

            String iid = F_iid.getText();
            String return_date = F_return.getText();

            Connection connection = connect();

            try {
                Statement stmt = connection.createStatement();
                stmt.executeUpdate("USE LIBRARY");
                //Intialize date1 with NULL value
                String date1=null;
                String date2=return_date; //Intialize date2 with return date

                //select issue date
                ResultSet rs = stmt.executeQuery("SELECT ISSUED_DATE
FROM ISSUED WHERE IID="+iid);
                while (rs.next()) {
                    date1 = rs.getString(1);

                }

                try {
                    Date date_1=new SimpleDateFormat("dd-MM-
yyyy").parse(date1);
                    Date date_2=new SimpleDateFormat("dd-MM-
yyyy").parse(date2);
                    //subtract the dates and store in diff
                    long diff = date_2.getTime() - date_1.getTime();
                    //Convert diff from milliseconds to days
                    ex.days=(int)(TimeUnit.DAYS.convert(diff,
TimeUnit.MILLISECONDS));

                } catch (ParseException e1) {
                    // TODO Auto-generated catch block
                    e1.printStackTrace();
                }

                //update return date
            }

```

```

        stmt.executeUpdate("UPDATE ISSUED    SET
RETURN_DATE='"+return_date+"' WHERE IID="+iid);
        g.dispose();

        Connection connection1 = connect();
        Statement stmt1 = connection1.createStatement();
        stmt1.executeUpdate("USE LIBRARY");
        ResultSet rs1 = stmt1.executeQuery("SELECT PERIOD FROM
ISSUED WHERE IID="+iid); //set period
        String diff=null;
        while (rs1.next()) {
            diff = rs1.getString(1);

        }
        int diff_int = Integer.parseInt(diff);

        if(ex.days&amp;amp;amp;diff_int) {
            //If number of days are more than the period then calculcate fine

            //System.out.println(ex.days);                int fine = (ex.days-
diff_int)*10; //fine for every day after the period is Rs 10.
            //update fine in the system
            stmt1.executeUpdate("UPDATE ISSUED SET FINE="+fine+"
WHERE IID="+iid);
            String fine_str = ("Fine: Rs. "+fine);
            JOptionPane.showMessageDialog(null,fine_str);

        }

        JOptionPane.showMessageDialog(null,"Book Returned!");

    }

    catch (SQLException e1) {
        // TODO Auto-generated catch block
        JOptionPane.showMessageDialog(null, e1);
    }

}

```

```

});

    g.add(l4);
    g.add(create_but);
    g.add(l1);
    g.add(F_iid);
    g.add(F_return);
    g.setSize(350,250);//400 width and 500 height
    g.setLayout(null);//using no layout managers
    g.setVisible(true);//making the frame visible
    g.setLocationRelativeTo(null);
}
});

f.add(create_but);
f.add(return_book);
f.add(issue_book);
f.add(add_book);
f.add(issued_but);
f.add(users_but);
f.add(view_but);
f.add(add_user);
f.setSize(600,200);//400 width and 500 height
f.setLayout(null);//using no layout managers
f.setVisible(true);//making the frame visible
f.setLocationRelativeTo(null);

}
}

```

5.3 BRUTE FORCE:

A brute force approach is an approach that finds all the possible solutions to find a satisfactory solution to a given problem. The brute force algorithm tries out all the possibilities till a satisfactory solution is not found.

Such an algorithm can be of two types:

- **Optimizing:** In this case, the best solution is found. To find the best solution, it may either find all the possible solutions to find the best solution or if the value of the best solution is known, it stops finding when the best solution is found. For example: Finding the best path for the travelling salesman problem. Here best path means that travelling all the cities and the cost of travelling should be minimum.
- **Satisficing:** It stops finding the solution as soon as the satisfactory solution is found. Or example, finding the travelling salesman path which is within 10% of optimal.
- **Often Brute force algorithms require exponential time. Various heuristics and optimization can be used:**
- **Heuristic:** A rule of thumb that helps you to decide which possibilities we should look at first.
- **Optimization:** A certain possibilities are eliminated without exploring all of them.

Let's understand the brute force search through an example.

Suppose we have converted the problem in the form of the tree shown as below:

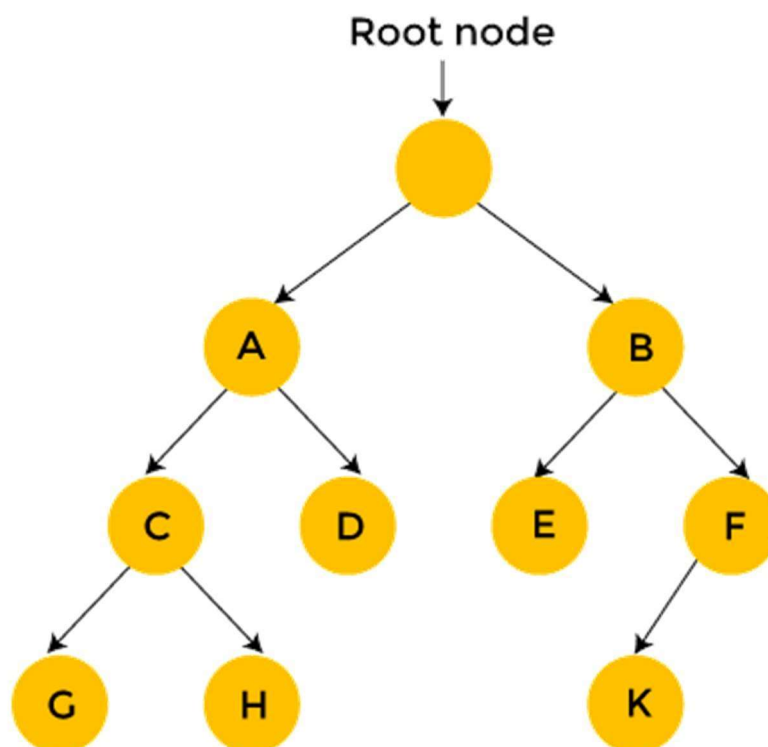


Figure 5.3 Data minimizing

Brute force search considers each and every state of a tree, and the state is represented in the form of a node. As far as the starting position is concerned, we

have two choices, i.e., A state and B state. We can either generate state A or state B. In the case of B state, we have two states, i.e., state E and F.

In the case of brute force search, each state is considered one by one. As we can observe in the above tree that the brute force search takes 12 steps to find the solution.

On the other hand, backtracking, which uses Depth-First search, considers the below states only when the state provides a feasible solution. Consider the above tree, start from the root node, then move to node A and then node C. If node C does not provide the feasible solution, then there is no point in considering the states G and H. We backtrack from node C to node A. Then, we move from node A to node D. Since node D does not provide the feasible solution, we discard this state and backtrack from node D to node A.

We move to node B, then we move from node B to node E. We move from node E to node K; Since k is a solution, so it takes 10 steps to find the solution. In this way, we eliminate a greater number of states in a single iteration. Therefore, we can say that backtracking is faster and more efficient than the brute force approach.

5.3.1 Advantages of a brute-force algorithm

The following are the advantages of the brute-force algorithm: ◦ This algorithm finds all the possible solutions, and it also guarantees that it finds the correct solution to a problem.

- This type of algorithm is applicable to a wide range of domains.
- It is mainly used for solving simpler and small problems.
- It can be considered a comparison benchmark to solve a simple problem and does not require any particular domain knowledge.

5.3.2 Disadvantages of a brute-force algorithm

The following are the disadvantages of the brute-force algorithm:

- It is an inefficient algorithm as it requires solving each and every state. ◦ It is a very slow algorithm to find the correct solution as it solves each state without considering whether the solution is feasible or not. ◦ The brute force algorithm is neither constructive nor creative as compared to other algorithms.

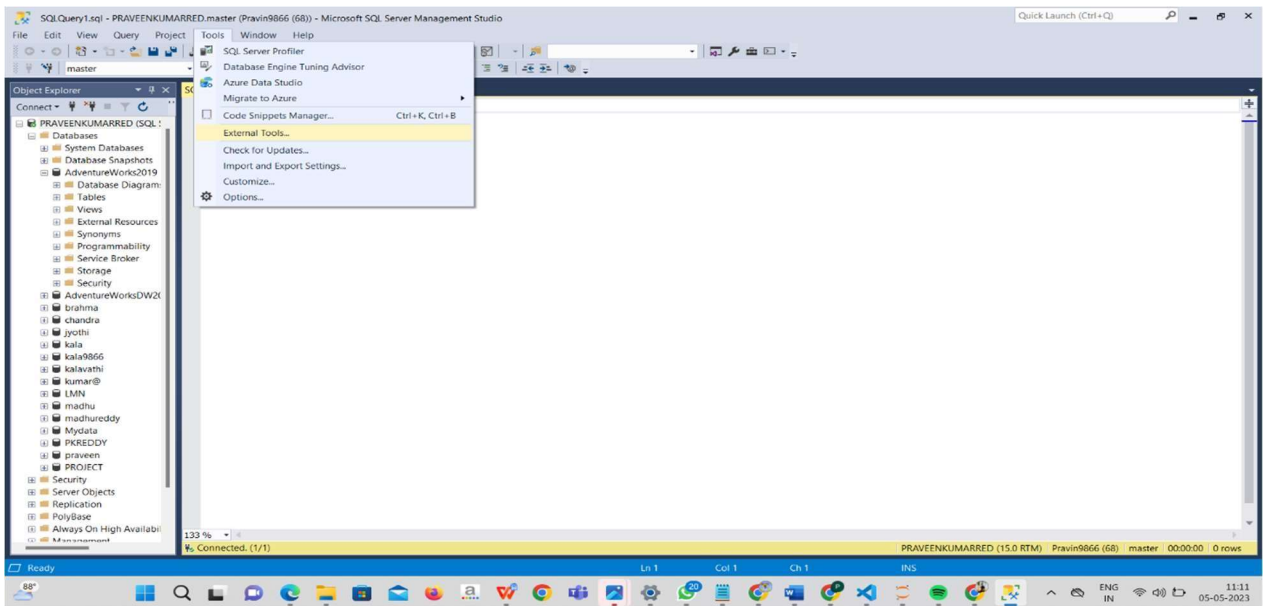


Figure 5.3.2 Tools index

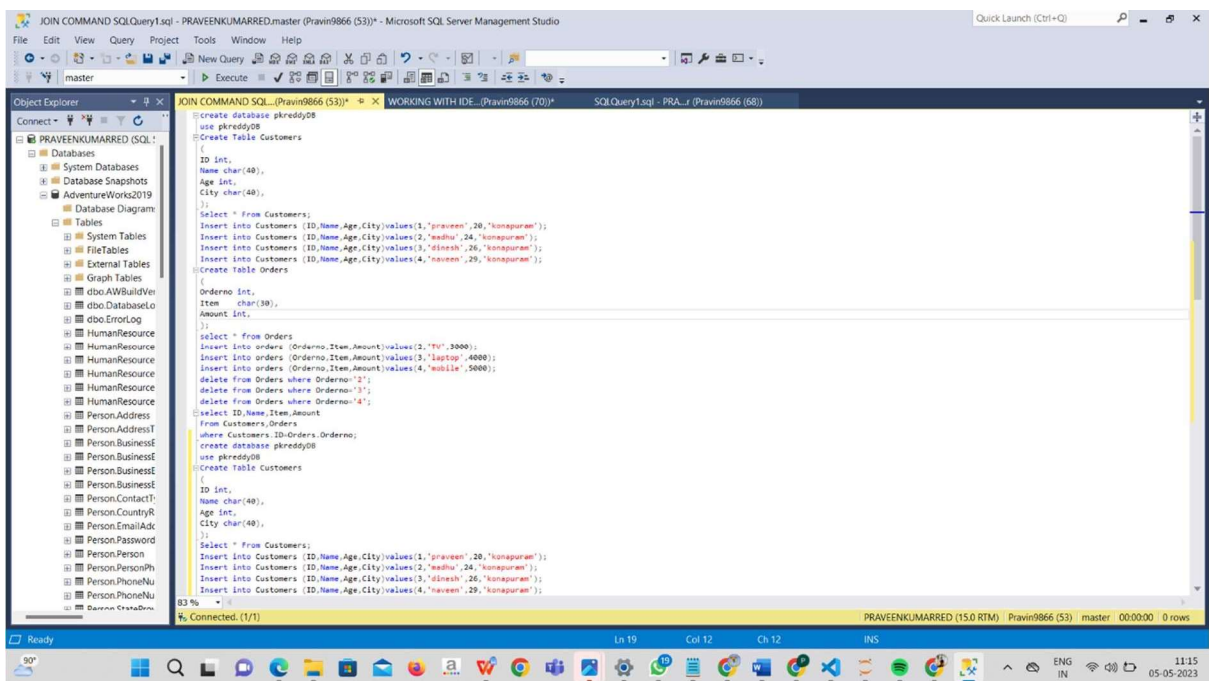


Figure 5.3.2 Sql Data cleaning

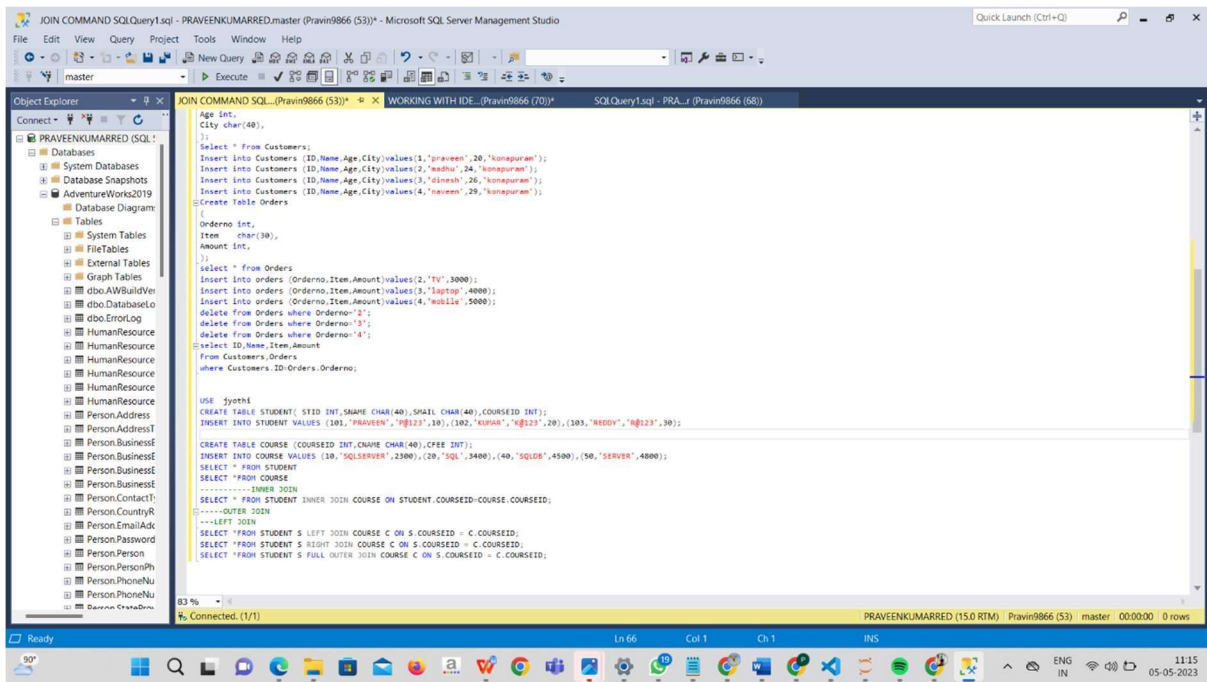


Figure 5.3.3 Decrease Redudancy

5.4 SUMMARY

A digital library, also called an online library, an internet library, a digital repository, a library without walls, or a digital collection is an online database of digital objects that can include text, still images, audio, video, digital documents, or other digital media formats or a library accessible through the internet. Objects can consist of digitized content like print or photographs, as well as originally produced digital content like word processor files or social media posts. In addition to storing content, digital libraries provide means for organizing, searching, and retrieving the content contained in the collection. Digital libraries can vary immensely in size and scope, and can be maintained by individuals or organizations. The digital content may be stored locally, or accessed remotely via computer networks. These information retrieval systems are able to exchange information with each other through interoperability and sustainability.

The early history of digital libraries is not well documented, but several key thinkers are connected to the emergence of the concept.^[3] Predecessors include

Paul Otlet and Henri La Fontaine's Mundaneum, an attempt begun in 1895 to gather and systematically catalogue the world's knowledge, with the hope of bringing about world peace.^[4] The visions of the digital library were largely realized a century later during the great expansion of the Internet, with access to the books and searching of the documents by millions of individuals on the World Wide Web.^[5]

Vannevar Bush and J.C.R. Licklider are two contributors that advanced this idea into then current technology. Bush had supported research that led to the bomb that was dropped on Hiroshima. After seeing the disaster, he wanted to create a machine that would show how technology can lead to understanding instead of destruction. This machine would include a desk with two screens, switches and buttons, and a keyboard. He named this the "Memex".

This way individuals would be able to access stored books and files at a rapid speed. In 1956, Ford Foundation funded Licklider to analyze how libraries could be improved with technology.

Almost a decade later, his book entitled "Libraries of the Future" included his vision. He wanted to create a system that would use computers and networks so human knowledge would be accessible for human needs and feedback would be automatic for machine purposes. This system contained three components, the corpus of knowledge, the question, and the answer. Licklider called it a procognitive system.

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CHAPTER 6

RESULTS AND DISCUSSION

6.1 RESULT

The output of the application delivers the update information of the books access,merging,storage and manipulated data will gets updated. After adding the several books and few students data will get updated in the resultant application.

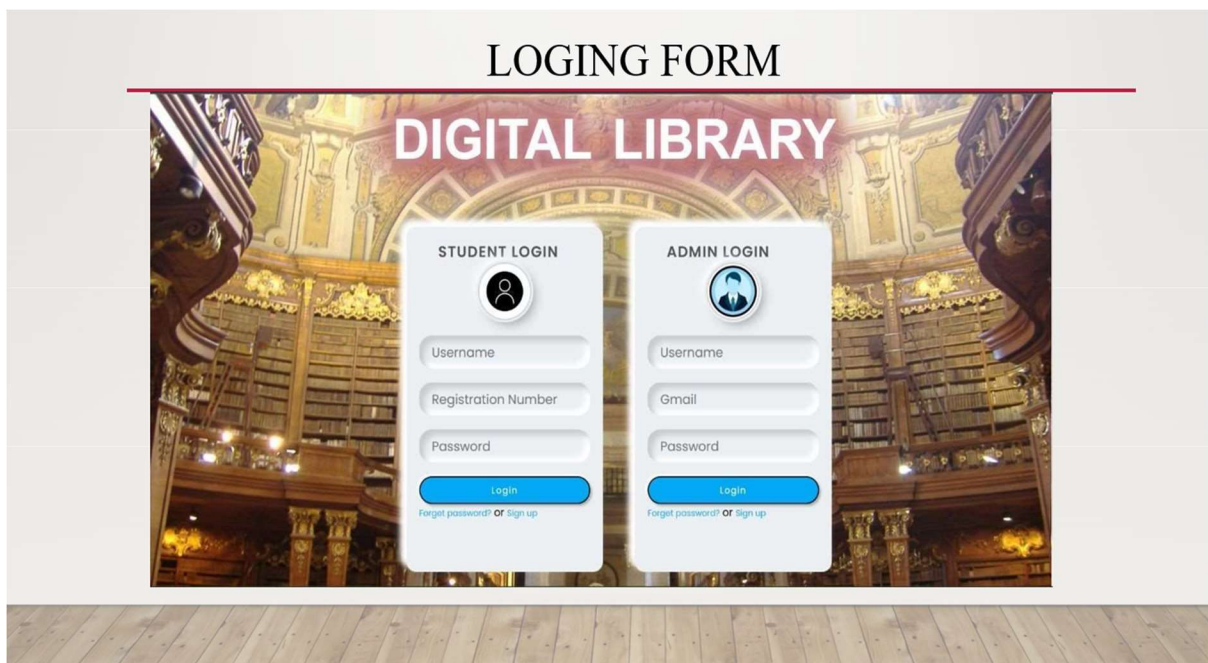


Figure 6.1 Main login page



Figure 6.2 Admin Profile

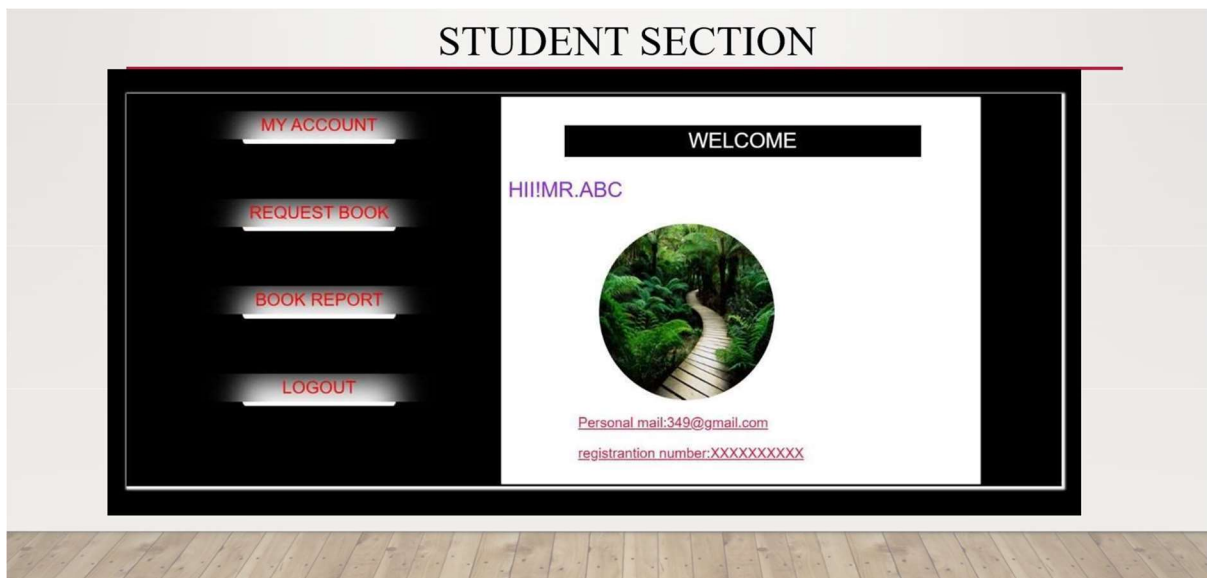


Figure 6.3 Student profile

Advantages

- ☐ No physical boundary: The user of a digital library need not to go to the library physically, people from all over the world could gain access to the same information, as long as an Internet connection is available.
- ☐ Round the clock availability: Digital libraries can be accessed at any time. 24 hours a day and 365 days of the year
- ☐ Multiple accesses: The same resources can be used at the same time by a number of users.
- ☐ Structured approach: Digital library provides access to much richer content in a more structured manner i.e. we can easily move from the catalog to the particular book then to a particular chapter and so on.
- ☐ Information retrieval: The user is able to use any search term bellowing to the word or phrase of the entire collection. Digital library will provide very user friendly interfaces, giving click able access to its resources.
- ☐ Preservation and conservation: An exact copy of the original can be made any number of times without any degradation in quality.

CHAPTER 7 CONCLUSION FUTURE SCOPE

7.1 CONCLUSION:

Digital libraries are not going to replace the physical existence of document completely but no doubt to meet the present demand, to satisfy the non local user digitization must be introduced so that at least libraries becomes of hybrid nature.

The initial cost of digitization is high but experiment shows that once digitization is introduced then the cost to manage this collection will be cheaper than that of any traditional library.

Day by day the cost of digitization is decreasing, the online publication is increasing, the needs of user are shifting towards a different environment so it's needless to say that after one or two years my library or your library will go to be digitized so it's the pick time to all informational and library professional that they geared themselves to take the challenge.

7.2 FUTURE SCOPE

Existing digital repository services are in an evolving stage, according to an survey there are more than 900 repositories open access running. There are many open source software which are helpful in creating open access repositories. As a result of which many more libraries will join in creating institutional repositories or digital libraries or digital repositories. So, there will be many digital repositories in near future. Open access to information, vast content collection will be available with open source software tools and new method will be initiated of digital preservation. There is various software which are used for creating digital libraries, used by users. It is important to know the requirements of different class of user, and for that evaluation of various software's used for creating digital libraries is necessary.

The software should be studied on the basis of that for which user community it is developed, how it is useful to users, how it can be improved to further help users to retrieve information effectively. Not only user based evaluation but other evaluation of digital library system on the basis of their performance, information retrieval techniques & underlying technology used. The most difficult issue in digital library is evaluation which is to be concluded from the above stated points. With increasing technology in the world, it is also important for librarians to learn and adopt new technologies and help the end users to use and make them available their valuable collection by the means of internet through digital library. As the technology keeps on improving new technologies comes into existence, leading to technical and operational challenges for libraries, digital library, archives and museums. For which they have to migrate to new technologies now and then. So, librarians should learn and adopt new changes in the technology and understand their feature so that best software can be selected from all the available

software. This will lead to improve performance and effectiveness of all those repositories in future and many new features can be added to the software.

7.3 REFERENCES

KOHA

KOHA is used worldwide by institutions, schools and special libraries. It is a fully-featured and scalable library system that is web-based. Institutions or organizations using the software need not manage a separate server to run KOHA as it is web-based. The software also offers backups and upgrades online.

BiblioteQ

This platform is a professional archiving, cataloging, and library management suite available as an open-source for organizations and institutions. It is available for all major operating systems and has several features that can be used to run a digital library undisturbed. BiblioteQ can be used to offer access to online research papers, videos, catalog books, and much more. It is also a platform with drag and drops interface making navigation and usability easy for the users.

OPALS

OPALS is another open-source automated digital library software that is trustworthy, easy to afford, implement and use. Many libraries across the world are using OPALS to manage their digital libraries which is a reason enough to know more and try it. It has many useful features, support functions, and an engineering framework.

PMB

PMB is yet another open-source digital library software that has many useful features. It undergoes updating at regular intervals by the developers of PMB and thus is always up-to-date. It is a complete library management system that has a network of roughly 10 to 15 sites.