

DEPARTMENT OF COMPUTER APPLICATION
TKM COLLEGE OF ENGINEERING
KOLLAM – 691005



LIBRARY MANAGEMENT SYSTEM
PRACTICAL RECORD BOOK

Second Semester MCA

2020-2021

Submitted by:

GROUP NO : 2

DEPARTMENT OF COMPUTER APPLICATION
TKM COLLEGE OF ENGINEERING
KOLLAM – 691005



Certificate

This is a bonafide record of the work done by GROUP 2 in the Second Semester in LIBRARY MANAGEMENT SYSTEM PROJECT towards the partial fulfillment of the degree of Master of Computer Applications during the academic year 2020-2021.

Staff Member in-charge

Examiner

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LIBRARY MANAGEMENT SYSTEM

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1. INTRODUCTION

1.1 ABOUT THE PROJECT

Due to the many problems facing with the current system by the public, We made a completely new library management system that can produce computerized system for managing the activities of the library system. It is totally secured system that can be accessed only by the verified user putting the user name and password procedure.

To mitigate the issues of conventional and manual method of reservation and distribution of books to readers from library, the computerized Library Management System has been created. The Library Management System is a computerized system for assisting both the public and librarian/staff in borrowing and supervising the books. The system would provide fundamental set of features for adding and/or updating members, adding and/or updating books, getting the list of books, and borrowing books. Its development includes the formation and maintenance of back-end database with NoSQL and front-end application development aspects with JAVA.

2. REQUIREMENTS ANALYSIS AND SPECIFICATIONS

2.1 SYSTEM STUDY

2.1.1 EXISTING SYSTEM

In the available computerized Library Management System, librarian maintains the details of each book on the registers so to find out the number of books available in the library they need to go to check the entire entry which makes the process slow. While they need to spend an extra hour to maintain the records of books. For a user who wants to know about a book in the library need to search the entire book section. The student needs to check the status of the book means the last date of book, how many books has issued.

2.1.2 PROPOSED SYSTEM

The proposed computerized Library Management System project will help the user and librarian to maintain the details of the library. It will assist the librarian before the shortage of books while they can know the details of the number of currently available in the library according to the author by accessing the system. system for assisting both the public and librarian/staff in borrowing and supervising the books. The system would provide fundamental set of features for adding and/or updating members, adding and/or updating books, getting the list of books, reserving and borrowing books.

2.1.3 SCOPE OF THE PROJECT

- This Project will keep track of all the books and library information.
- The software will be able to handle all the necessary information
- To make the existing system more efficient.
- To provide a user-friendly environment where user can be serviced better.
- Make functioning of library faster.

2.1.4 FEASIBILITY STUDY

All projects are feasible when given unlimited resources and indefinite time. It is both necessary and prudent to evaluate the feasibility of a project at the earliest possible time. A feasible study is not warranted for system in which economic justification is observed, technical risk is low, few legal problems are expected and no reasonable alternatives exist. An alternative is made of whether the identified user needs may be satisfied using our recent software and hardware technologies. The study will decide if the proposed system will be cost effective from the business point of view and it can be developed in the existing budgetary constraints. The feasibility study should be relatively sharp and quick. The gesture should inform the decision of whether to go ahead with a more detailed analysis. Feasibility study may be documented as a separated report to higher officials of the top level management and can be included as appendices to the system specification. Feasibility and risk analysis is detailed in many worries. If there is more project risk then the feasibility of producing ¹the quality software is reduce. The study is done in three phase.

1

Operational Feasibility

Technical Feasibility

Economic Feasibility

2.1.4.1 TECHNICAL FEASIBILITY

A study of function, performance and constraints and improve the ability to create an acceptable system. Technical feasibility is frequently the most difficult area to achieve at the stage of product engineering process. Considering that are normally associated with the technical feasibility includes.

Development Risk

Resource Availability

Technology

Technical feasibility study deals with the hardware as well as the software requirements. The scope was whether the work for the project is done with the current requirements and the existing software technology has to be examined in the feasibility study.

The outcome was found to be positive.

2.1.4.2 ECONOMIC FEASIBILITY

The cost evaluation is weighted against ultimate income or benefit derived from the developed system or project. Economic justification is generally the bottom line consideration that includes cost benefit analysis, long term corporate income strategies, impact on other profit centers or products, cost of resources undermine the possible application benefit. There was no difficulty in implemented the software and proposed system is so effective, user friendly, functionally reliable so that the

needed for development and potential market growth. When compared to the advantage obtained from implementing the system its cost is affordable.

Also the system is designed to meet the modification required in the future. Therefore most of the modifications can be done without much re-work. Secured data transmission over Network software was developed with the available resources. Since cost input for the software is almost nil the output of the software is always a profit. Hence information retrieval software is economically feasible.

Maintained or is compromised. In this paper we provide a scheme which gives a proof of data integrity in the cloud which the customer can employ to check the correctness of his data in the cloud. This proof can be agreed upon by both the cloud and the customer and can be incorporated in the Service level agreement (SLA). It is important to note that our proof of data integrity protocol just checks the integrity of data. i.e., if the data has been illegally modified or deleted.

2.1.4.3 OPERATIONAL FEASIBILITY

Proposed project are beneficial only if they can be turned into information system that will meet the organizations operating requirements. Simply stated, the test of feasibility asks if the system will work when it is developed and installed. Are there any major barriers to implementations? Is there sufficient support for the project from the management? Are current business methods acceptable to the users? Have the users been involved in the planning and development of the project? Will the proposed system cause any harm? The purpose of the operational feasibility study is to determine whether the new system will be used if it is developed and installed and whether there will be resistance from users that will users in the company will find that the new system to reduce the hard steps.

2.2 USER CHARACTERISTICS

The Library Management System is a computerized system for assisting both the public and librarian/staff in borrowing and supervising the books. The system would provide fundamental set of features for adding and/or updating members, adding and/or updating books, getting the list of books, and borrowing books. In this system, there will be one user

- The Admin
- The User

2.2.1 THE ADMIN

The admin or the administrator is the super user and main controller of the system. He/She can login to the system using the username and password. He/ She controls all the activities in the system. Admin is responsible for adding users and adding , updating and deleting the details of books as well as issue books for users. Admin can also view the details of the users and books.

2.2.2 THE USER

The user can sign up and search the book he/she want. User must check if the book is available or not before issuing.He /she can view the statistics

2.3 SYSTEM SPEIFICATIONS

2.3.1 HARDWARE SPECIFICATIONS

The selection of hardware is very important in the existence and proper working of any software. When selecting the hardware, the size and capacity requirements are also important. Below is some of the hardware that is required by the system.

Processor	Intel Core i3-3220 (3.3 GHz) or above
RAM	4 GB or above
Storage	512 GB or above
Other	Keyboard and Mouse

2.3.2 SOFTWARE SPECIFICATIONS

Operating System	Windows 7/8/8.1/10
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Front End	JAVA
Back End	MongoDB

2.3.3. ABOUT SOFTWARE TOOLS

It is very important to select the appropriate software so that the software works properly.

Below is the software that are required to make a new system:

- PHP 5
- MongoDB

JAVA

Java is a general-purpose computer-programming language that is concurrent, class-based, object-oriented, and specifically designed to have as few implementation dependencies as possible. It is intended to let application developers "write once, run anywhere" (WORA), meaning that compiled Java code can run on all platforms that support Java without the need for recompilation. Java applications are typically compiled to "bytecode" that can run on any Java virtual machine (JVM) regardless of the underlying computer architecture. The language derives much of its original features from SmallTalk, with a syntax similar to C and C++, but it has fewer low-level facilities than either of them. As of 2016, Java was one of the most popular programming languages in use, particularly for client-server web applications, with a reported 9 million developers.

Java was originally developed by Canadian James Gosling at Sun Microsystems (which has since been acquired by Oracle) and released in 1995 as a core component of Sun Microsystems' Java platform. The original and reference implementation Java compilers, virtual machines, and class libraries were originally released by Sun under proprietary licenses. As of May 2007, in compliance with the specifications of the Java Community Process, Sun had relicensed most of its Java technologies under the GNU General Public License. Meanwhile, others have developed alternative implementations of these Sun technologies, such as the GNU Compiler for Java

(bytecode compiler), GNU Classpath (standard libraries), and IcedTea-Web (browser plugin for applets)

MongoDB

MongoDB's document model is simple for developers to learn and use, while still providing all the capabilities needed to meet the most complex requirements at any scale. MongoDB stores data in flexible, JSON-like documents, meaning fields can vary from document to document and data structure can be changed over time. The document model maps to the objects in your application code, making data easy to work with. Ad hoc queries, indexing, and real time aggregation provide powerful ways to access and analyze your data. MongoDB is a distributed database at its core, so high availability, horizontal scaling, and geographic distribution are built in and easy to use. MongoDB is free to use. Versions released prior to October 16, 2018 are published under the AGPL. All versions released after October 16, 2018, including patch fixes for prior versions, are published under the Server Side Public License (SSPL) v1.

3.4 SYSTEM REQUIREMENTS

3.4.1 FUNCTIONAL REQUIREMENTS

Admin

- Provide the information regarding books.
- Add new book to the database.
- Update the number of books in database.
- Enter data of issued book in Database.
- Information of returned books.

User

- Search for the required books from database.
- User must check if the book is available or not before issuing.

3.4.2 NON FUNCTIONAL REQUIREMENTS

EFFICIENCY REQUIREMENT

When a library management system will be implemented librarian and user will easily access library as searching and book transaction will be very faster

RELIABILITY REQUIREMENT

The system should accurately performs member registration ,member validation , report generation, book transaction and search

USABILITY REQUIREMENT

The system is designed for a user friendly environment so that admin and users of library can perform the various tasks easily and in an effective way.

IMPLEMENTATION REQUIREMENTS

In implementing whole system with front end as JAVA which will be used for database connectivity and the backend ie the database part is developed using MongoDB.

DELIVERY REQUIREMENTS

The whole system is expected to be delivered in one month of time with a weekly evaluation by the project guide.

3. SYSTEM MODELING

3.1 MODULE DESCRIPTION

ADMIN

- Login
- Add user
- Add books details
- Update book details
- Issue book
- Return book
- View book details

USER



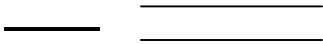
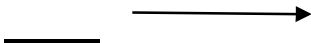

- Login
- Search book
- View book details

3.2 DATA FLOW DIAGRAM

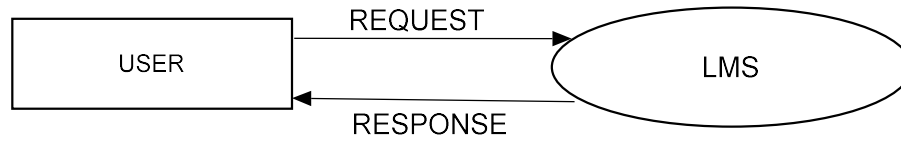
Data Flow Diagram (DFD) is also known as “Bubble Chart” has the purpose of classifying system requirements and identifying major transformation that will become programs in system design. So it is the starting point of the design phase that functionally decomposes the requirements specification down to the lowest level of detail. DFD are made up of a number of symbols which represent system components. DFD contains the set of bubbles joined by lines. The bubble represent the data transformation, lines represent the data flow and the open rectangle shows data store. The flow of data among different component in this project “Search Engine” is represented using DFD representation. The data flow diagram is a way of expressing system requirements in a graphical form. This led to the modular design. As a first step, one Data Flow Diagram can depict an entire system. Which gives the system overview. It is called context diagram of level 0 DFD. The Context Diagram can be further expanded. The successive expansion of a DFD from the context diagram to those giving more details is known as leveling of DFD.

Basic DFD Symbols

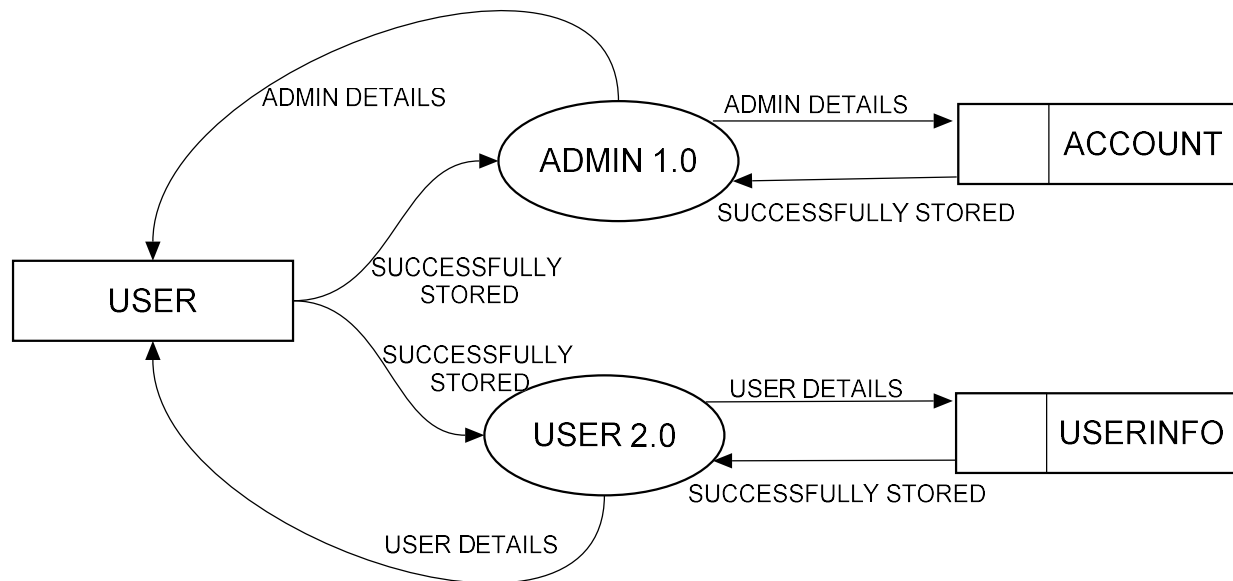
Data flow is a route, which enables data to travel from one point to another. Data may flow from a source to a data store or process. An arrow line depicts the flow, with arrowhead pointing in the direction of the flow.

	<u>EXTERNAL ENTITY</u>
	<u>PROCESS</u>
	<u>DATA STORE</u>
	<u>DATA FLOW</u>
	<u>OUTPUT</u>

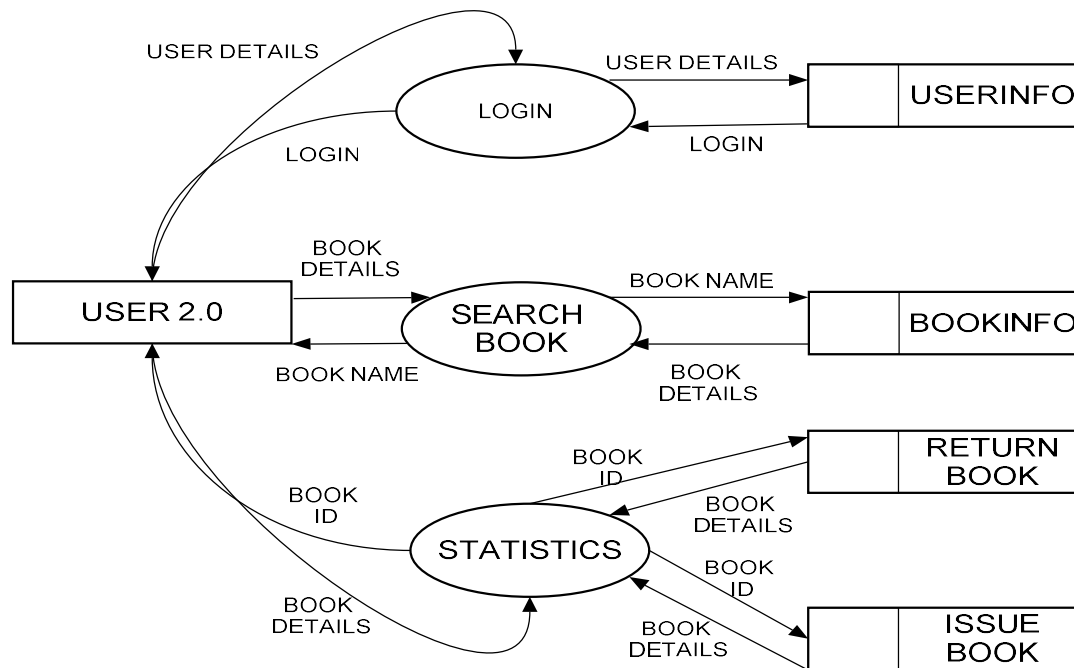
LEVEL 0



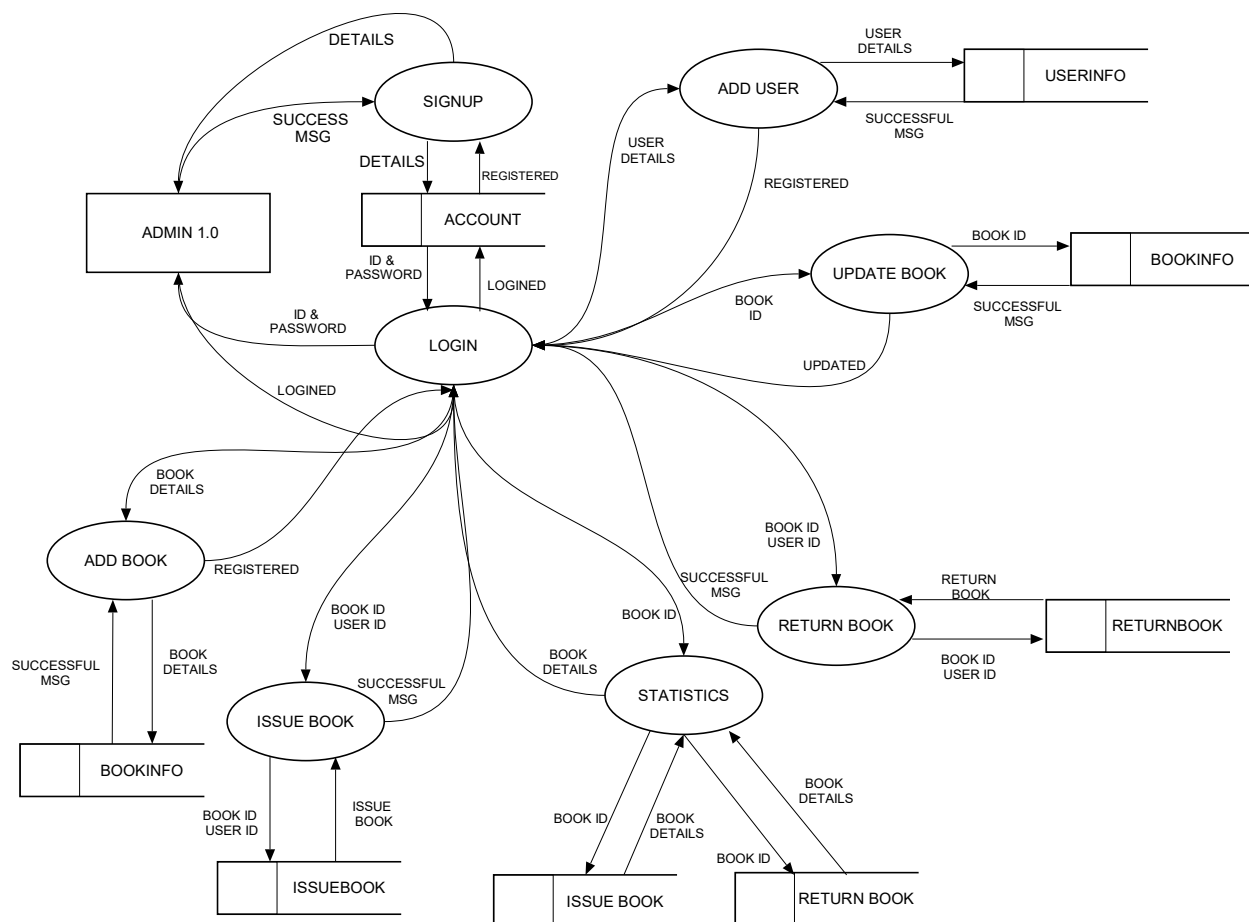
LEVEL 1 OF LIBRARY MANAGEMENT SYSTEM



LEVEL 1 OF USER



LEVEL 1 OF ADMIN



3.3 E-R DIAGRAM

ER Diagram stands for Entity Relationship Diagram, also known as ERD is a diagram that displays the relationship of entity sets stored in a database. In other words, ER diagrams help to explain the logical structure of databases. ER diagrams are created based on three basic concepts: entities, attributes and relationships.

ER Diagrams contain different symbols that use rectangles to represent entities, ovals to define attributes and diamond shapes to represent relationships.

3.4 DATABASE DESIGN

The database is a collection of information and is systematically stored in tables in the form of rows and columns. The table in the database has unique name that identifies its contents. The database in turn is further described in detail giving all the fields used with the data types, constraints available, primary key and foreign key. Database design is used to manage large of information. In this database we describe the entire 4 table available in the software, which are used to store all the records.

Fields in database table have a data type used in database table are explained below.

1. Integer: one optional sign character (+ or -) followed by at least one digit (0-9). Leading and trailing blanks are ignored. No other character is allowed.
2. Varchar: It is used to store alpha numeric characters. In this data type we can set the maximum number of characters up to 8000 ranges by defaults SQL server will set the size to 50 characters range.
3. Data/time: Data/time data type is used for representing date or time.

TABLE : ACCOUNT

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
USERNAME	VARCHAR	20	PRIMARY KEY	USERNAME
NAME	VARCHAR	20		NAME
PASSSSWORD	VARCHAR	20		PASSWORD

TABLE : USER_INFO

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
USER ID	INTEGER	10	PRIMARY KEY	USER ID
UNAME	VARCHAR	20		USER'S NAME
GENDER	VARCHAR	10		GENDER
EMAIL	VARCHAR	20		EMAIL ID
PHONENO	INTEGER	12		PHONE NUMBER
ADDRESS	VARCHAR	20		ADDRESS OF USER

TABLE : BOOK_INFO

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
BOOK ID	INTEGER	10	PRIMARY KEY	BOOK ID
BNAME	VARCHAR	20		BOOK NAME
ISBN	INTEGER	20		ISBN
PUBLISHER	VARCHAR	20		PUBLISHER NAME
EDITION	INTEGER	2		EDITION
PAGENO	INTEGER	3		PAGE NUMBER
PRICE	DECIMAL	(5,2)		PRICE

TABLE : RETURN_BOOK

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
BOOK ID	INTEGER	10	FOREIGN KEY	BOOK ID
USERID	INTEGER	10	FOREIGN KEY	USER ID
BNAME	VARCHAR	20		BOOK NAME
UNAME	VARCHAR	20		USER'S NAME
PHONENO	INTEGER	12		PHONE NUMBER
DATEOFISSUE	DATETIME			DATE OF ISSUE
DATEOFRETURN	DATETIME			DATE OF RETIURN

TABLE : ISSUE_BOOK

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
BOOK ID	INTEGER	10	FOREIGN KEY	BOOK ID

USERID	INTEGER	10	FOREIGN KEY	USER ID
BNAME	VARCHAR	20		BOOK NAME
UNAME	VARCHAR	20		USER'S NAME
PHONENO	INTEGER	12		PHONE NUMBER
DATEOFISSUE	DATETIME			DATE OF ISSUE
DATEOFRETURN	DATETIME			DATE OF RETIURN

4. SYSTEM DESIGN

4.1 INPUT DESIGN

Input design is the process of converting the user originated inputs to computer based formats. The goal of the input design is to make data entry easier, logical and free from errors. It is one of the most important task in the software development, since it reduce the user's work and select the correct data entry.

Input design consists of developing specification and procedures for data preparation, those steps necessary to put transaction data into usable from for processing, and data entry, the activity of putting the data into computer for processing. As obvious data entry can be achieved by instructing the computer to reads data from a written or printed document or it can occur by having people key data directly into the system.

4.2 OUTPUT DESIGN

Output design generally refers to the results and information that are generated by the system. For many end-users, output is the main reason for developing the system and the basis on which they evaluate the usefulness of application. The objective of a system finds its shape in terms of the output. The analysis of the objective of a system leads to determination of output. Output of a system can take various forms. The most common are reports, screens displays, printed form, graphical drawing etc. The basic requirement of a output are that it should be accurate, timely and appropriate, in terms of content, medium and layout for its intended purpose. Hence it is necessary to design output so that the objectives of the system are met in the best possible manner. The outputs are in the form of reports. The outputs are generated by the system according to the input.

4.3 INTERFACE DESIGN

User interface design is the design form of computers, appliances, machines, mobile communication devices, software applications and websites with the focus on the user's experience and interaction. The goal of user interface design is to make the user's interaction as simple and efficient as possible, in terms of accomplishing user goal what is often called user-centered design. Where good graphic/industrial design is bold and eye catching, good user interface design is to facilitate finishing the task at hand over drawing attention to it.

Graphic design may be utilized to apply a theme or style to the interface without compromising its usability. The design process of an interface must balance the meaning of its visual elements that confirm the mental model of operation, and the functionality from a technical engineering perspective, in order to create system that is both usable and easy to adapt to the changing user needs. In our system we provide effective and user friendly interfaces.

5.CODING

PROGRAM NAME	CODE
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	<pre> </Property> <Property name="text" type="java.lang.String" value="STATISTICS"/> </Properties> <Events> <EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" dler="jButton4ActionPerformed"/> </Events> <Constraints> <Constraint layoutClass="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout\$AbsoluteLayout" <AbsoluteConstraints x="220" y="370" width="157" height="53"/> </Constraint> </Constraints> </Component> <Component class="javax.swing.JButton" name="jButton6"> <Properties> <Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="foreground" type="java.awt.Color" editor="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="dc" green="2d" red="0" type="rgb"/> </Property> <Property name="text" type="java.lang.String" value="SEARCH BOOK"/> </Properties> <Events> <EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" dler="jButton6ActionPerformed"/> </Events> <Constraints> <Constraint layoutClass="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout\$AbsoluteLayout" <AbsoluteConstraints x="420" y="370" width="150" height="53"/> </Constraint> </Constraints> </Component> <Component class="javax.swing.JButton" name="jButton7"> <Properties> <Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="foreground" type="java.awt.Color" editor="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="dc" green="2d" red="0" type="rgb"/> </Property> <Property name="text" type="java.lang.String" value="SEARCH BOOK"/> </Properties> <Events> </pre>
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	<pre> <EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" dler="jButton7ActionPerformed"/> </Events> <Constraints> <Constraint layoutClass="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout\$AbsoluteLayout" <AbsoluteConstraints x="420" y="370" width="150" height="53"/> </Constraint> </Constraints> </Component> <Component class="javax.swing.JButton" name="jButton5"> <Properties> <Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="foreground" type="java.awt.Color" editor="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="ff00ff" red="ff00ff" green="ff00ff" type="color"/> </Property> </Properties> <Events> <EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" ameters="java.awt.event.ActionEvent" listener="jButton5ActionPerformed"/> </Events> <Constraints> <Constraint layoutClass="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout\$AbsoluteLayout" <AbsoluteConstraints x="420" y="370" width="150" height="53"/> </Constraint> </Constraints> </Component> <Component class="javax.swing.JButton" name="jButton6"> <Properties> <Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="foreground" type="java.awt.Color" editor="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="ff00ff" red="ff00ff" green="ff00ff" type="color"/> </Property> </Properties> <Events> <EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" ameters="java.awt.event.ActionEvent" listener="jButton6ActionPerformed"/> </Events> <Constraints> <Constraint layoutClass="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout\$AbsoluteLayout" <AbsoluteConstraints x="420" y="370" width="150" height="53"/> </Constraint> </Constraints> </Component> <Component class="javax.swing.JButton" name="jButton7"> <Properties> <Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="foreground" type="java.awt.Color" editor="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="ff00ff" red="ff00ff" green="ff00ff" type="color"/> </Property> </Properties> <Events> <EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" ameters="java.awt.event.ActionEvent" listener="jButton7ActionPerformed"/> </Events> <Constraints> <Constraint layoutClass="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.DesignAbsoluteLayout\$AbsoluteLayout" <AbsoluteConstraints x="420" y="370" width="150" height="53"/> </Constraint> </Constraints> </Component> </Component> </Form> </pre>
AHOME.java	<pre> /* * To change this license header, choose License * headers in Project Properties. * To change this template file, choose Tools * Templates * and open the template in the editor. */ package lsm; </pre>


```

/**
 *
 * @author User
 */
public class AHOME extends javax.swing.JFrame {
    /**
     * Creates new form AHOME
     */
    public AHOME() {
        initComponents();
    }
    /**
     * This method is called from within the
     * constructor to initialize the form.
     * WARNING: Do NOT modify this code. The
     * content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed"
    >
    // Generated Code
    //GEN-BEGIN: initComponents
    private void initComponents() {
        jLabel1 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton6 = new javax.swing.JButton();
        jButton7 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.
        IT_ON_CLOSE);
        getContentPane().setLayout(new
        netbeans.lib.awtextra.AbsoluteLayout());
        jLabel1.setFont(new java.awt.Font("Calibri", 1,
        18)); // NOI18N
        jLabel1.setForeground(new java.awt.Color(239,
        164));
        jLabel1.setText("LIBRARY MANAGEMENT
        STEM");
        getContentPane().add(jLabel1, new
        netbeans.lib.awtextra.AbsoluteConstraints(250, 50,
        94));
        jButton1.setFont(new java.awt.Font("Calibri", 1,

```

```

); // NOI18N
    jButton1.setForeground(new java.awt.Color(0,
236));
    jButton1.setText("ADD USER");
    jButton1.addActionListener(new
java.awt.event.ActionListener() {
        public void
onPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton1, new
netbeans.lib.awtextra.AbsoluteConstraints(140, 230,
, 50));
    jButton2.setFont(new java.awt.Font("Calibri", 1,
); // NOI18N
    jButton2.setForeground(new java.awt.Color(0,
203));
    jButton2.setText("RETURN BOOK");
    jButton2.addActionListener(new
java.awt.event.ActionListener() {
        public void
onPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton2, new
netbeans.lib.awtextra.AbsoluteConstraints(410, 230,
, 50));
    jButton3.setFont(new java.awt.Font("Calibri", 1,
); // NOI18N
    jButton3.setForeground(new java.awt.Color(0,
214));
    jButton3.setText("ISSUE BOOK");
    jButton3.addActionListener(new
java.awt.event.ActionListener() {
        public void
onPerformed(java.awt.event.ActionEvent evt) {
            jButton3ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton3, new
netbeans.lib.awtextra.AbsoluteConstraints(670, 230,
, 50));
    jButton4.setFont(new java.awt.Font("Calibri", 1,
); // NOI18N

```

```

        jButton4.setForeground(new java.awt.Color(0,
214));
        jButton4.setText("STATISTICS");
        jButton4.addActionListener(new
java.awt.event.ActionListener() {
            public void
onPerformed(java.awt.event.ActionEvent evt) {
                jButton4ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton4, new
netbeans.lib.awtextra.AbsoluteConstraints(220, 370,
, 53));
        jButton6.setFont(new java.awt.Font("Calibri", 1,
); // NOI18N
        jButton6.setForeground(new java.awt.Color(0,
220));
        jButton6.setText("SEARCH BOOK");
        jButton6.addActionListener(new
java.awt.event.ActionListener() {
            public void
onPerformed(java.awt.event.ActionEvent evt) {
                jButton6ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton6, new
netbeans.lib.awtextra.AbsoluteConstraints(420, 370,
, 53));
        jButton7.setFont(new java.awt.Font("Calibri", 1,
); // NOI18N
        jButton7.setForeground(new java.awt.Color(0,
220));
        jButton7.setText("SEARCH BOOK");
        jButton7.addActionListener(new
java.awt.event.ActionListener() {
            public void
onPerformed(java.awt.event.ActionEvent evt) {
                jButton7ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton7, new
netbeans.lib.awtextra.AbsoluteConstraints(420, 370,
, 53));
        jButton5.setFont(new java.awt.Font("Calibri", 1,
); // NOI18N
        jButton5.setForeground(new java.awt.Color(51,

```

```

255));
        jButton5.setText("ADD BOOK");
        jButton5.addActionListener(new
1.    java.awt.event.ActionListener() {
            public void
2.    actionPerformed(java.awt.event.ActionEvent evt) {
                jButton5ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton5, new
3.    netbeans.lib.awtextra.AbsoluteConstraints(610, 370,
4.    , 53));
        jLabel3.setIcon(new
5.    javax.swing.ImageIcon(getClass().getResource("/lsm/Pict
6.    s/proj3.jpg"))); // NOI18N
        getContentPane().add(jLabel3, new
7.    netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 980,
8.    ));
        pack();
        // </editor-fold> //GEN-END: initComponents
        private void
9.    jButton2ActionPerformed(java.awt.event.ActionEvent
10.    ) { //GEN-FIRST:event_jButton2ActionPerformed
            // TODO add your handling code here:
            //GEN-LAST:event_jButton2ActionPerformed
        private void
11.    jButton1ActionPerformed(java.awt.event.ActionEvent
12.    ) { //GEN-FIRST:event_jButton1ActionPerformed
            if(evt.getSource() == jButton1){
                this.setVisible(false);
                new AddUser().setVisible(true);    //
13.    DO add your handling code here:
            } //GEN-LAST:event_jButton1ActionPerformed
        }
        private void
14.    jButton3ActionPerformed(java.awt.event.ActionEvent
15.    ) { //GEN-FIRST:event_jButton3ActionPerformed
            // TODO add your handling code here:
            //GEN-LAST:event_jButton3ActionPerformed
        private void
16.    jButton4ActionPerformed(java.awt.event.ActionEvent
17.    ) { //GEN-FIRST:event_jButton4ActionPerformed
            // TODO add your handling code here:
            //GEN-LAST:event_jButton4ActionPerformed
        private void
18.    jButton6ActionPerformed(java.awt.event.ActionEvent

```

```

} //GEN-FIRST:event_jButton6ActionPerformed
    // TODO add your handling code here:
} //GEN-LAST:event_jButton6ActionPerformed
private void
_jButton7ActionPerformed(java.awt.event.ActionEvent
) //GEN-FIRST:event_jButton7ActionPerformed
    // TODO add your handling code here:
} //GEN-LAST:event_jButton7ActionPerformed
private void
_jButton5ActionPerformed(java.awt.event.ActionEvent
) //GEN-FIRST:event_jButton5ActionPerformed
    if(evt.getSource() == jButton5){
        this.setVisible(false);
        //
        new AddBook().setVisible(true);
        // TODO add your handling code here:
    } //GEN-LAST:event_jButton5ActionPerformed
/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc="
    Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not
    available, stay with the default look and feel.
    * For details see
    http://download.oracle.com/javase/tutorial/uiswing/lookan
    d/plaf.html
    */
    try {
        for
        javax.swing.UIManager.LookAndFeelInfo info :
        javax.swing.UIManager.getInstalledLookAndFeels() {
            if ("Nimbus".equals(info.getName())) {

                javax.swing.UIManager.setLookAndFeel(info.getClassNa
                me());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(AHOME.class.getNa
        me()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

```

	<pre> i.util.logging.Logger.getLogger(AHOME.class.getNa)).log(java.util.logging.Level.SEVERE, null, ex); } catch (IllegalAccessException ex) { i.util.logging.Logger.getLogger(AHOME.class.getNa)).log(java.util.logging.Level.SEVERE, null, ex); } catch javax.swing.UnsupportedLookAndFeelException ex) { i.util.logging.Logger.getLogger(AHOME.class.getNa)).log(java.util.logging.Level.SEVERE, null, ex); } //</editor-fold> /* Create and display the form */ java.awt.EventQueue.invokeLater(new mable() { public void run() { new AHOME().setVisible(true); } }); } // Variables declaration - do not modify//GEN- GIN:variables private javax.swing.JButton jButton1; private javax.swing.JButton jButton2; private javax.swing.JButton jButton3; private javax.swing.JButton jButton4; private javax.swing.JButton jButton5; private javax.swing.JButton jButton6; private javax.swing.JButton jButton7; private javax.swing.JLabel jLabel1; private javax.swing.JLabel jLabel3; // End of variables declaration//GEN- D:variables } </pre>
AddBook.java	<pre> package ; import java.awt.*; import javax.swing.*; import javax.swing.border.*; import java.awt.event.*; import java.sql.*; import java.util.*; public class AddBook extends JFrame implements </pre>

```

ionListener{
    private JPanel contentPane;
    private JTextField t1,t2,t3,t4,t5,t6;
    private JButton b1,b2;
    JComboBox comboBox;

    public static void main(String[] args) {
        new AddBook().setVisible(true);
    }

    public void random() {
        Random rd = new Random();
        t1.setText("" + rd.nextInt(1000 + 1));
    }

    public AddBook() {
        // TODO Auto-generated constructor
    }

    setBounds(600, 200, 518, 442);
    contentPane = new JPanel();
    contentPane.setBorder(new
    ptYBorder(5, 5, 5, 5));

    setContentPane(contentPane);

    contentPane.setBackground(Color.CYAN);
    contentPane.setLayout(null);
    JLabel l1 = new
    bel("Name");
    l1.setForeground(new
    or(47, 79, 79));
    l1.setFont(new
    it("Tahoma", Font.BOLD, 14));
    l1.setBounds(530, 84, 90,
    ;
    contentPane.add(l1);
    JLabel l2 = new
    bel("ISBN");
    l2.setForeground(new
    or(47, 79, 79));
    l2.setFont(new
    it("Tahoma", Font.BOLD, 14));
    l2.setBounds(530, 117, 90,
    ;
    contentPane.add(l2);

```

	<pre> JLabel l3 = new bel("Publisher"); l3.setForeground(new Color(47, 79, 79)); l3.setFont(new Font("Tahoma", Font.BOLD, 14)); l3.setBounds(530, 150, 90, 170); contentPane.add(l3); JLabel l4 = new bel("Price"); l4.setForeground(new Color(47, 79, 79)); l4.setFont(new Font("Tahoma", Font.BOLD, 14)); l4.setBounds(530, 216, 90, 236); contentPane.add(l4); JLabel l5 = new bel("Pages"); l5.setForeground(new Color(47, 79, 79)); l5.setFont(new Font("Tahoma", Font.BOLD, 14)); l5.setBounds(530, 249, 90, 269); contentPane.add(l5); JLabel l6 = new bel("Book_id"); l6.setForeground(new Color(47, 79, 79)); l6.setFont(new Font("Tahoma", Font.BOLD, 14)); l6.setBounds(530, 311, 90, 331); contentPane.add(l6); JLabel l7 = new bel("Edition"); l7.setForeground(new Color(47, 79, 79)); l7.setFont(new Font("Tahoma", Font.BOLD, 14)); l7.setBounds(530, 383, 90, 403); contentPane.add(l7); t1 = new JTextField(); </pre>
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	<pre> t1.setForeground(new or(47, 79, 79)); t1.setFont(new it("Trebuchet MS", Font.BOLD, 14)); t1.setBounds(650, 54, 198, ; contentPane.add(t1); t1.setColumns(10); t2 = new JTextField(); t2.setForeground(new or(47, 79, 79)); t2.setFont(new it("Trebuchet MS", Font.BOLD, 14)); t2.setColumns(10); t2.setBounds(650, 87, 198, ; contentPane.add(t2); t3 = new JTextField(); t3.setForeground(new or(47, 79, 79)); t3.setFont(new it("Trebuchet MS", Font.BOLD, 14)); t3.setColumns(10); t3.setBounds(650, 120, 198, ; contentPane.add(t3); t4 = new JTextField(); t4.setForeground(new or(47, 79, 79)); t4.setFont(new it("Trebuchet MS", Font.BOLD, 14)); t4.setColumns(10); t4.setBounds(650, 153, 198, ; contentPane.add(t4); t5 = new JTextField(); t5.setForeground(new or(47, 79, 79)); t5.setFont(new it("Trebuchet MS", Font.BOLD, 14)); t5.setColumns(10); t5.setBounds(650, 219, 198, ; contentPane.add(t5); t6 = new JTextField(); t6.setForeground(new </pre>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<pre> or(47, 79, 79)); t6.setFont(new it("Trebuchet MS", Font.BOLD, 14)); t6.setColumns(10); t6.setBounds(650, 252, 198, ; contentPane.add(t6); comboBox = new comboBox(); comboBox.setModel(new DefaultComboBoxModel(new String[] { "1", "2", "3", , "5", "6", "7", "8", "9", "10", "11", "12" })); comboBox.setBounds(650, , 194, 20); contentPane.add(comboBox); b1 = new JButton("Add"); b1.addActionListener(this); b1.setBorder(new CompoundBorder(new LineBorder(new Color(128, 128,)), null)); b1.setFont(new it("Trebuchet MS", Font.BOLD, 15)); b1.setBounds(560, 300, 100, ; setBackground(Color.BLACK); setForeground(Color.WHITE); contentPane.add(b1); b2 = new JButton("Back"); b2.addActionListener(this); b2.setFont(new it("Trebuchet MS", Font.BOLD, 15)); b2.setBounds(670, 300, 108, ; setBackground(Color.BLACK); setForeground(Color.WHITE); contentPane.add(b2); JPanel panel = new JPanel(); panel.setBorder(new CompoundBorder(new LineBorder(new Color(138, 43, 226), "Add Books", TitledBorder.LEADING, TitledBorder.TOP, null, new Color(0, </pre>
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	<pre> 55)); panel.setBounds(500, 29, , 344); contentPane.add(panel); el.setBackground(Color.WHITE); tentPane.setBackground(Color.CYAN); random(); } public void actionPerformed(ActionEvent ae){ } } </pre>
AddUser.java	<pre> package ; import java.awt.*; import javax.swing.*; import javax.swing.border.*; import java.awt.event.*; import java.sql.*; import java.util.*; public class AddUser extends JFrame implements ionListener{ private JPanel contentPane; private JTextField t1,t2,t3,t4, t5; private JComboBox comboBox_1; JButton b1,b2; public static void main(String[] args) { new AddUser().setVisible(true); } public void random() { Random rd = new Random(); t1.setText("" + rd.nextInt(10000 + 1)); } public AddUser() { super("Add User"); setBounds(700, 200, 395, 450); contentPane = new JPanel(); contentPane.setBorder(new EmptyBorder(5, , 5)); setContentPane(contentPane); contentPane.setLayout(null); JLabel l1 = new JLabel("USER ID"); </pre>

	<pre> 11.setForeground(new Color(25, 25, 112)); 11.setFont(new Font("Tahoma", it.BOLD, 14)); 11.setBounds(64, 63, 102, 22); contentPane.add(11); JLabel l2 = new JLabel("Name"); 12.setForeground(new Color(25, 25, 112)); 12.setFont(new Font("Tahoma", it.BOLD, 14)); 12.setBounds(64, 97, 102, 22); contentPane.add(12); JLabel l3 = new JLabel("Address"); 13.setForeground(new Color(25, 25, 112)); 13.setFont(new Font("Tahoma", it.BOLD, 14)); 13.setBounds(64, 130, 102, 22); contentPane.add(13); JLabel l4 = new JLabel("E-mail"); 14.setForeground(new Color(25, 25, 112)); 14.setFont(new Font("Tahoma", it.BOLD, 14)); 14.setBounds(64, 209, 102, 22); contentPane.add(14); JLabel l5 = new JLabel("Phone"); 15.setForeground(new Color(25, 25, 112)); 15.setFont(new Font("Tahoma", it.BOLD, 14)); 15.setBounds(64, 242, 102, 22); contentPane.add(15); t1 = new JTextField(); t1.setEditable(false); t1.setForeground(new Color(47, 79, 79)); t1.setFont(new Font("Trebuchet MS", it.BOLD, 14)); t1.setBounds(174, 66, 156, 20); contentPane.add(t1); t1.setColumns(10); t2 = new JTextField(); t2.setForeground(new Color(47, 79, 79)); t2.setFont(new Font("Trebuchet MS", it.BOLD, 14)); t2.setColumns(10); t2.setBounds(174, 100, 156, 20); contentPane.add(t2); t3 = new JTextField(); t3.setForeground(new Color(47, 79, 79)); </pre>
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	<pre> t3.setFont(new Font("Trebuchet MS", it.BOLD, 14)); t3.setColumns(10); t3.setBounds(174, 133, 156, 20); contentPane.add(t3); t4 = new JTextField(); t4.setForeground(new Color(47, 79, 79)); t4.setFont(new Font("Trebuchet MS", it.BOLD, 14)); t4.setColumns(10); t4.setBounds(174, 210, 156, 20); contentPane.add(t4); t5 = new JTextField(); t5.setForeground(new Color(47, 79, 79)); t5.setFont(new Font("Trebuchet MS", it.BOLD, 14)); t5.setColumns(10); t5.setBounds(174, 245, 156, 20); contentPane.add(t5); b1 = new JButton("ADD"); b1.addActionListener(this); b1.setFont(new Font("Trebuchet MS", it.BOLD, 14)); b1.setBounds(64, 321, 111, 33); b1.setBackground(Color.BLACK); b1.setForeground(Color.WHITE); contentPane.add(b1); b2 = new JButton("Back"); b2.addActionListener(this); b2.setFont(new Font("Trebuchet MS", it.BOLD, 14)); b2.setBounds(198, 321, 111, 33); b2.setBackground(Color.BLACK); b2.setForeground(Color.WHITE); contentPane.add(b2); JLabel l7 = new JLabel("Gender"); l7.setForeground(new Color(25, 25, 112)); l7.setFont(new Font("Tahoma", it.BOLD, 14)); l7.setBounds(64, 173, 102, 22); contentPane.add(l7); comboBox_1 = new JComboBox(); comboBox_1.setModel(new DefaultComboBoxModel(new String[] { "Male", male", "Other" })); </pre>
--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

```

        comboBox_1.setForeground(new Color(47,
79));
        comboBox_1.setFont(new Font("Trebuchet
", Font.BOLD, 14));
        comboBox_1.setBounds(176, 176, 154, 20);
        contentPane.add(comboBox_1);
        JPanel panel = new JPanel();
        panel.setBorder(new TitledBorder(new
eBorder(new Color(102, 205, 170), 2, true), "Add-
r",
                                TitledBorder.LEADING,
eBorder.TOP, null, new Color(30, 144, 255)));
        panel.setBackground(new Color(211, 211,
));
        panel.setBounds(10, 38, 358, 348);

        contentPane.setBackground(Color.WHITE);
        panel.setBackground(Color.WHITE);

        contentPane.add(panel);
        random();
    }

    public void actionPerformed(ActionEvent ae){
        if(ae.getSource() == b2){
            this.setVisible(false);
            new AHOME().setVisible(true);
        }
        /*try{

            if(ae.getSource() == b1){
                try{
                    conn con = new conn();
                    String sql = "insert into user(user_id,
ie, address, gender, email, phone) values(?, ?, ?, ?, ?,

                    PreparedStatement st =
.c.prepareStatement(sql);
                    st.setString(1, t1.getText());
                    st.setString(2, t2.getText());
                    st.setString(3, t3.getText());
                    st.setString(4, (String)
comboBox_1.getSelectedItem());
                    st.setString(5, t4.getText());
                    st.setString(6, t5.getText());
                    int i = st.executeUpdate();

```

	<pre> if (i > 0){ JOptionPane.showMessageDialog(null, ccessfully Added"); this.setVisible(false); new Home().setVisible(true); } Else JOptionPane.showMessageDialog(null, or"); } catch (Exception e){ e.printStackTrace(); } } if(ae.getSource() == b2){ this.setVisible(false); new Home().setVisible(true); } } catch (Exception e){ } }*/ } } </pre>
Admin_home.java	<pre> package ; import javax.swing.*; import javax.swing.border.*; import java.awt.*; import java.awt.event.*; public class Admin_home extends JFrame implements ActionListener{ /** * */ private static final long serialVersionUID = private JPanel contentPane; private JButton b1,b2,b3,b4; public static void main(String[] args) { new Admin_home().setVisible(true); } public Admin_home() { </pre>

	<pre> setBounds(400, 150, 1000, 800); contentPane = new JPanel(); setContentPane(contentPane); contentPane.setLayout(null); JMenuBar menuBar = new JMenuBar(); menuBar.setBorder(new EtchedBorder(EtchedBorder.RAISED, new Color(0, 0), new Color(128, 128, 128))); menuBar.setBackground(Color.gray); menuBar.setBounds(0, 10, 1000, 35); contentPane.add(menuBar); JMenu mnExit = new JMenu("Exit"); mnExit.setFont(new Font("Trebuchet MS", Font.BOLD, 17)); JMenuItem mntmLogout = new JMenuItem("Logout"); mntmLogout.setBackground(new Color(211, 211, 211)); mntmLogout.setForeground(new Color(105, 105)); mntmLogout.addActionListener(this); mnExit.add(mntmLogout); JMenuItem mntmExit = new JMenuItem("Exit"); mntmExit.setForeground(new Color(105, 105)); mntmExit.setBackground(new Color(211, 211)); mntmExit.addActionListener(this); mnExit.add(mntmExit); JMenu mnHelp = new JMenu("Help"); mnHelp.setFont(new Font("Trebuchet MS", Font.BOLD, 17)); JMenuItem mntmAboutUs = new JMenuItem("About Us"); mntmAboutUs.setForeground(new Color(105, 105, 105)); mntmAboutUs.setBackground(new Color(211, 211, 211)); </pre>
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	<pre> mntmAboutUs.addActionListener(this); mnHelp.add(mntmAboutUs); menuBar.add(mnHelp); menuBar.add(mnExit); JLabel l1 = new JLabel("LIBRARY NAGEMENT SYSTEM"); l1.setForeground(new Color(204, 51, 102)); l1.setFont(new Font("Segoe UI Semilight", t.BOLD, 30)); l1.setBounds(268, 30, 701, 80); contentPane.add(l1); JLabel l2 = new JLabel(""); setVerticalAlignment(SwingConstants.TOP); ImageIcon i1 = new ImageIcon(ClassLoader.getResource("")); Image i2 = getImage().getScaledInstance(150, ,Image.SCALE_DEFAULT); ImageIcon i3 = new ImageIcon(i2); l2 = new JLabel(i3); l2.setBounds(60, 140, 159, 152); contentPane.add(l2); JLabel l3 = new JLabel(""); ImageIcon i4 = new ImageIcon(ClassLoader.getResource("")); Image i5 = getImage().getScaledInstance(200, ,Image.SCALE_DEFAULT); ImageIcon i6 = new ImageIcon(i5); l3 = new JLabel(i6); l3.setBounds(300, 160, 134, 128); contentPane.add(l3); JLabel l4 = new JLabel(""); ImageIcon i7 = new ImageIcon(ClassLoader.getResource("")); Image i8 = getImage().getScaledInstance(150, ,Image.SCALE_DEFAULT); ImageIcon i9 = new ImageIcon(i8); l4 = new JLabel(i9); l4.setBounds(530, 140, 225, 152); contentPane.add(l4); b1 = new JButton("ADD BOOK"); </pre>
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	<pre> b1.addActionListener(this); b1.setBackground(Color.BLACK); b1.setForeground(Color.WHITE); b1.setBounds(150, 320, 159, 44); contentPane.add(b1); b2 = new JButton("ADD USER"); b2.addActionListener(this); b2.setBackground(Color.BLACK); b2.setForeground(Color.WHITE); b2.setBounds(400, 320, 150, 44); contentPane.add(b2); b3 = new JButton("STATISTICS"); b3.addActionListener(this); b3.setBackground(Color.BLACK); b3.setForeground(Color.WHITE); b3.setBounds(650, 320, 167, 44); contentPane.add(b3); b4 = new JButton("ISSUE BOOK"); b4.addActionListener(this); b4.setBackground(Color.BLACK); b4.setForeground(Color.WHITE); b4.setBounds(400, 420, 150, 44); contentPane.add(b4); JPanel panel = new JPanel(); panel.setBorder(new TitledBorder(new eBorder(new Color(250, 128, 114), 2), ELCOME", TitledBorder.LEADING, TitledBorder.TOP, l, new Color(220, 20, 60))); panel.setBounds(20, 120, 950, 460); panel.setBackground(Color.cyan); contentPane.add(panel); JLabel l6 = new JLabel(""); ImageIcon i13 = new ImageIcon(ClassLoader.getResource("")); Image i14 = getImage().getScaledInstance(150, ,Image.SCALE_DEFAULT); ImageIcon i15 = new ImageIcon(i14); l6 = new JLabel(i15); l6.setBounds(332, 440, 139, 152); contentPane.add(l6); JLabel l7 = new JLabel(""); ImageIcon i16 = new ImageIcon(ClassLoader.getResource("")); </pre>
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

```
        Image i17 =
getImage().getScaledInstance(150,
,Image.SCALE_DEFAULT);
        ImageIcon i18 = new ImageIcon(i17);
        17 = new JLabel(i18);
        17.setBounds(562, 440, 157, 152);
        contentPane.add(17);

    }

    @Override
    public void actionPerformed(ActionEvent ae){
        String msg = ae.getActionCommand();
        if(msg.equals("Logout")){
            setVisible(false);
            new Login_user().setVisible(true);
        }else if(msg.equals("Exit")){
            System.exit(ABORT);

        }else if(msg.equals("Read Me")){

        }else if(msg.equals("About Us")){
            setVisible(false);
        }
        if(msg.equals("ADD USER")){
            setVisible(false);
            new AddUser().setVisible(true);}

        /*

        }else if(msg.equals("Book Details")){
            setVisible(false);
            new BookDetails().setVisible(true);
        }else if(msg.equals("Student Details")){
            setVisible(false);
            new StudentDetails().setVisible(true);

        }
        */
        if(ae.getSource() == b1){
            this.setVisible(false);
            /* new AddBook().setVisible(true);
        */}
        if(ae.getSource() == b2){
            this.setVisible(false);
            new AddUser();
```

	<pre> } if(ae.getSource() == b3){ this.setVisible(false); /*new AddStudent().setVisible(true);*/ } if(ae.getSource() == b3){ this.setVisible(false); /*new AddStudent().setVisible(true);*/ } if(ae.getSource() == b4){ this.setVisible(false); /*new AddStudent().setVisible(true);*/ } } } </pre>
Home.java	<pre> package ; import javax.swing.*; import javax.swing.border.*; import java.awt.*; import java.awt.event.*; public class Home extends JFrame implements ionListener{ /** * */ private static final long serialVersionUID = private JPanel contentPane; private JButton b1,b2,b3; public static void main(String[] args) { new Home().setVisible(true); } public Home() { setBounds(400, 150, 1000, 800); contentPane = new JPanel(); setContentPane(contentPane); contentPane.setLayout(null); JMenuBar menuBar = new JMenuBar(); menuBar.setBorder(new </pre>

	<pre> hedBorder(EtchedBorder.RAISED, new Color(0, , 0), new Color(128, 128, 128))); menuBar.setBackground(Color.gray); menuBar.setBounds(0, 10, 1000, 35); contentPane.add(menuBar); JMenu mnExit = new JMenu("Exit"); mnExit.setFont(new Font("Trebuchet MS", Font.BOLD, 17)); JMenuItem mntmLogout = new JMenuItem("Logout"); mntmLogout.setBackground(new Color(211, 211, 211)); mntmLogout.setForeground(new Color(105, , 105)); mntmLogout.addActionListener(this); mnExit.add(mntmLogout); JMenuItem mntmExit = new JMenuItem("Exit"); mntmExit.setForeground(new Color(105, , 105)); mntmExit.setBackground(new Color(211, , 211)); mntmExit.addActionListener(this); mnExit.add(mntmExit); JMenu mnHelp = new JMenu("Help"); mnHelp.setFont(new Font("Trebuchet MS", Font.BOLD, 17)); JMenuItem mntmAboutUs = new JMenuItem("About Us"); mntmAboutUs.setForeground(new Color(105, 105, 105)); mntmAboutUs.setBackground(new Color(211, 211, 211)); mntmAboutUs.addActionListener(this); mnHelp.add(mntmAboutUs); /* JMenuItem mnRecord = new JMenuItem("Record"); mnRecord.setFont(new Font("Trebuchet ", Font.BOLD, 17)); JMenuItem bookdetails = new </pre>
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```

menuItem("Book Details");
    bookdetails.addActionListener(this);
    bookdetails.setBackground(new Color(211,
, 211));

bookdetails.setForeground(Color.DARK_GRAY);
    mnRecord.add(bookdetails);
    JMenuItem studentdetails = new
menuItem("User Details");
    studentdetails.setBackground(new
Color(211, 211, 211));

studentdetails.setForeground(Color.DARK_GRAY);
    studentdetails.addActionListener(this);
    mnRecord.add(studentdetails);

    menuBar.add(mnRecord);*/
    menuBar.add(mnHelp);
    menuBar.add(mnExit);

    JLabel l1 = new JLabel("LIBRARY
MANAGEMENT SYSTEM");
    l1.setForeground(new Color(204, 51, 102));
    l1.setFont(new Font("Segoe UI Semilight",
Font.BOLD, 30));
    l1.setBounds(268, 30, 701, 80);
    contentPane.add(l1);
    JLabel l2 = new JLabel("");

    setVerticalAlignment(SwingConstants.TOP);
    ImageIcon i1 = new
ImageIcon(ClassLoader.getResource(""));
    Image i2 =
getImage().getScaledInstance(150,
150, Image.SCALE_DEFAULT);
    ImageIcon i3 = new ImageIcon(i2);
    l2 = new JLabel(i3);
    l2.setBounds(60, 140, 159, 152);
    contentPane.add(l2);
    JLabel l3 = new JLabel("");
    ImageIcon i4 = new
ImageIcon(ClassLoader.getResource(""));
    Image i5 =
getImage().getScaledInstance(200,
200, Image.SCALE_DEFAULT);
    ImageIcon i6 = new ImageIcon(i5);

```

```

l3 = new JLabel(i6);
l3.setBounds(300, 160, 134, 128);
contentPane.add(l3);
JLabel l4 = new JLabel("");
ImageIcon i7 = new
ImageIcon(ClassLoader.getResource(""));
Image i8 =
getImage().getScaledInstance(150,
,Image.SCALE_DEFAULT);
ImageIcon i9 = new ImageIcon(i8);
l4 = new JLabel(i9);
l4.setBounds(530, 140, 225, 152);
contentPane.add(l4);
b1 = new JButton("ISSUE BOOK");
b1.addActionListener(this);
b1.setBackground(Color.BLACK);
b1.setForeground(Color.WHITE);
b1.setBounds(150, 320, 159, 44);
contentPane.add(b1);
b2 = new JButton("RETURN BOOK");
b2.addActionListener(this);
b2.setBackground(Color.BLACK);
b2.setForeground(Color.WHITE);
b2.setBounds(400, 320, 150, 44);
contentPane.add(b2);
b3 = new JButton("SEARCH BOOK");
b3.addActionListener(this);
b3.setBackground(Color.BLACK);
b3.setForeground(Color.WHITE);
b3.setBounds(650, 320, 167, 44);
contentPane.add(b3);
JPanel panel = new JPanel();
panel.setBorder(new TitledBorder(new
TitledBorder(new Color(250, 128, 114), 2),
"ELCOME", TitledBorder.LEADING,
TitledBorder.TOP,
, new Color(220, 20, 60)));
panel.setBounds(20, 120, 950, 460);
panel.setBackground(Color.cyan);
contentPane.add(panel);
JLabel l6 = new JLabel("");
ImageIcon i13 = new
ImageIcon(ClassLoader.getResource(""));
Image i14 =
getImage().getScaledInstance(150,
,Image.SCALE_DEFAULT);

```

```

        ImageIcon i15 = new ImageIcon(i14);
        l6 = new JLabel(i15);
        l6.setBounds(332, 440, 139, 152);
        contentPane.add(l6);
        JLabel l7 = new JLabel("");
        ImageIcon i16 = new
        ImageIcon(ClassLoader.getSystemResource(""));
        Image i17 =
        getImage().getScaledInstance(150,
        ,Image.SCALE_DEFAULT);
        ImageIcon i18 = new ImageIcon(i17);
        l7 = new JLabel(i18);
        l7.setBounds(562, 440, 157, 152);
        contentPane.add(l7);

    }

    public void actionPerformed(ActionEvent ae){
        String msg = ae.getActionCommand();
        if(msg.equals("Logout")){
            setVisible(false);
            new Login_user().setVisible(true);
        }else if(msg.equals("Exit")){
            System.exit(ABORT);

        }else if(msg.equals("Read Me")){

        }else if(msg.equals("ADD USER")){
            setVisible(false);
            new AddUser().setVisible(true);
            /*

        }else if(msg.equals("Book Details")){
            setVisible(false);
            new BookDetails().setVisible(true);
        }else if(msg.equals("Student Details")){
            setVisible(false);
            new StudentDetails().setVisible(true);

        }
        */
        if(ae.getSource() == b1){
            this.setVisible(false);
            /* new AddBook().setVisible(true);
            */
        }
        if(ae.getSource() == b2){

```


	<pre> this.setVisible(false); /* new Statistics().setVisible(true);*/ } if(ae.getSource() == b3){ this.setVisible(false); /*new AddStudent().setVisible(true);*/ } } }}</pre>
Index.form	<pre> <?xml version=" ", encoding=" UTF-8" <Form version="1.3" maxVersion="1.9" xmlns="org.netbeans.modules.form.forminfo.JFrameFor mInfo"> <Properties> <Property name="defaultCloseOperation" xmlns="int" value="3"/> </Properties> <SyntheticProperties> <SyntheticProperty name="formSizePolicy" xmlns="int" value="1"/> <SyntheticProperty name="generateCenter" xmlns="boolean" value="true"/> </SyntheticProperties> <AuxValues> <AuxValue xmlns="FormSettings_autoResourcing" xmlns="java.lang.Integer" value="0"/> <AuxValue xmlns="FormSettings_autoSetComponentName" xmlns="java.lang.Boolean" value="false"/> <AuxValue xmlns="FormSettings_generateFQN" xmlns="java.lang.Boolean" value="true"/> <AuxValue xmlns="FormSettings_generateMnemonicsCode" xmlns="java.lang.Boolean" value="false"/> <AuxValue xmlns="FormSettings_generateAutoMode" xmlns="java.lang.Boolean" value="false"/> </AuxValues> </Form></pre>

	<pre> <AuxValue re="FormSettings_layoutCodeTarget" e="java.lang.Integer" value="1"/> <AuxValue re="FormSettings_listenerGenerationStyle" e="java.lang.Integer" value="0"/> <AuxValue re="FormSettings_variablesLocal" e="java.lang.Boolean" value="false"/> <AuxValue re="FormSettings_variablesModifier" e="java.lang.Integer" value="2"/> <AuxValue name="designerSize" e="java.awt.Dimension" value="-84,- 0,5,115,114,0,18,106,97,118,97,46,97,119,116,46,6 05,109,101,110,115,105,111,110,65,-114,-39,-41,- 05,68,20,2,0,2,73,0,6,104,101,105,103,104,116,73,0 19,105,100,116,104,120,112,0,0,2,124,0,0,3,-8"/> </AuxValues> <Layout s="org.netbeans.modules.form.compat2.layouts.De 1AbsoluteLayout"> <Property name="useNullLayout" e="boolean" value="false"/> </Layout> <SubComponents> <Component class="javax.swing.JLabel" re="jLabel1"> <Properties> <Property name="font" type="java.awt.Font" or="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="foreground" e="java.awt.Color" or="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="a0" green="fc" red="33" e="rgb"/> </Property> <Property name="text" e="java.lang.String" value="LIBRARY NAGEMENT SYSTEM"/> </Properties> <Constraints> <Constraint </pre>
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	<pre> outClass="org.netbeans.modules.form.compat2.layo DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.D nAbsoluteLayout\$AbsoluteConstraintsDescription <AbsoluteConstraints x="200" y="70" th="510" height="130"/> </Constraint> </Constraints> </Component> <Component class="javax.swing.JButton" ie="jButton1"> <Properties> <Property name="background" e="java.awt.Color" or="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="ff" green="ff" red="ff" e="rgb"/> </Property> <Property name="font" type="java.awt.Font" or="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="foreground" e="java.awt.Color" or="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="33" green="0" red="ff" e="rgb"/> </Property> <Property name="text" e="java.lang.String" value="LOGIN"/> </Properties> <Events> <EventHandler event="actionPerformed" ener="java.awt.event.ActionListener" ameters="java.awt.event.ActionEvent" dler="jButton1ActionPerformed"/> </Events> <Constraints> <Constraint outClass="org.netbeans.modules.form.compat2.layo DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.D nAbsoluteLayout\$AbsoluteConstraintsDescription </pre>
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	<pre> <AbsoluteConstraints x="280" y="350" width="130" height="40"/> </Constraint> </Constraints> </Component> <Component class="javax.swing.JButton" name="jButton2"> <Properties> <Property name="background" value="java.awt.Color" color="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="ff" green="ff" red="ff" value="rgb"/> </Property> <Property name="font" type="java.awt.Font" color="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="foreground" value="java.awt.Color" color="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="33" green="0" red="ff" value="rgb"/> </Property> <Property name="text" value="java.lang.String" value="SIGN UP"/> <Property name="maximumSize" value="java.awt.Dimension" color="org.netbeans.beaninfo.editors.DimensionEditor <Dimension value="[83, 31]"/> </Property> <Property name="minimumSize" value="java.awt.Dimension" color="org.netbeans.beaninfo.editors.DimensionEditor <Dimension value="[83, 31]"/> </Property> </Properties> <Events> <EventHandler event="actionPerformed" value="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jButton2ActionPerformed"/> </Events> </pre>
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	<pre> <Constraints> <Constraint outClass="org.netbeans.modules.form.compat2.layo DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.D nAbsoluteLayout\$AbsoluteConstraintsDescription <AbsoluteConstraints x="470" y="350" th="132" height="40"/> </Constraint> </Constraints> </Component> <Component class="javax.swing.JLabel" ie="jLabel2"> <Properties> <Property name="background" e="java.awt.Color" or="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="ff" green="ff" red="99" e="rgb"/> </Property> <Property name="foreground" e="java.awt.Color" or="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="99" green="ff" red="99" e="rgb"/> </Property> <Property name="icon" e="javax.swing.Icon" or="org.netbeans.modules.form.editors2.IconEditor <Image iconType="3" ie="/lsm/Pictures/proj 1.jpg"/> </Property> </Properties> <Constraints> <Constraint outClass="org.netbeans.modules.form.compat2.layo DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.D nAbsoluteLayout\$AbsoluteConstraintsDescription <AbsoluteConstraints x="0" y="0" th="860" height="555"/> </Constraint> </Constraints> </pre>
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	<pre> </Component> </SubComponents> </Form> </pre>
Index.java	<pre> /* * To change this license header, choose License * headers in Project Properties. * To change this template file, choose Tools * Templates * and open the template in the editor. */ package lsm; /** * * @author User */ public class Index extends javax.swing.JFrame { /** * Creates new form Index */ public Index() { initComponents(); } /** * This method is called from within the * constructor to initialize the form. * WARNING: Do NOT modify this code. The * content of this method is always * regenerated by the Form Editor. */ @SuppressWarnings("unchecked") // <editor-fold defaultstate="collapsed" // > private void initComponents() { jLabel1 = new javax.swing.JLabel(); jButton1 = new javax.swing.JButton(); jButton2 = new javax.swing.JButton(); jLabel2 = new javax.swing.JLabel(); setDefaultCloseOperation(javax.swing.WindowConstants. IT_ON_CLOSE); getContentPane().setLayout(new netbeans.lib.awtextra.AbsoluteLayout()); jLabel1.setFont(new java.awt.Font("Calibri", 1,); // NOI18N jLabel1.setForeground(new java.awt.Color(51, , 160)); </pre>

```

        jLabel1.setText("LIBRARY MANAGEMENT
        STEM");
        getContentPane().add(jLabel1, new
        netbeans.lib.awtextra.AbsoluteConstraints(200, 70,
        , 130));
        jButton1.setBackground(new
        java.awt.Color(255, 255, 255));
        jButton1.setFont(new java.awt.Font("Calibri", 1,
        ), // NOI18N
        jButton1.setForeground(new
        java.awt.Color(255, 0, 51));
        jButton1.setText("LOGIN");
        jButton1.addActionListener(new
        java.awt.event.ActionListener() {
            public void
            actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new
        netbeans.lib.awtextra.AbsoluteConstraints(280, 350,
        , 40));
        jButton2.setBackground(new
        java.awt.Color(255, 255, 255));
        jButton2.setFont(new java.awt.Font("Calibri", 1,
        ), // NOI18N
        jButton2.setForeground(new
        java.awt.Color(255, 0, 51));
        jButton2.setText("SIGN UP");
        jButton2.setMaximumSize(new
        java.awt.Dimension(83, 31));
        jButton2.setMinimumSize(new
        java.awt.Dimension(83, 31));
        jButton2.addActionListener(new
        java.awt.event.ActionListener() {
            public void
            actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton2, new
        netbeans.lib.awtextra.AbsoluteConstraints(470, 350,
        , 40));
        jLabel2.setBackground(new java.awt.Color(153,
        , 255));
        jLabel2.setForeground(new java.awt.Color(153,

```

```

, 153));
    jLabel2.setIcon(new
ix.swing.ImageIcon(getClass().getResource("/lsm/Pict
s/proj 1.jpg"))); // NOI18N
    getContentPane().add(jLabel2, new
.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 860,
));

    pack();
    setLocationRelativeTo(null);
} // </editor-fold> // GEN-END: initComponents
private void
tton1ActionPerformed(java.awt.event.ActionEvent
) { // GEN-FIRST:event_jButton1ActionPerformed
    // TODO add your handling code here:
    String msg = evt.getActionCommand();
    if(msg.equals("LOGIN")){
        setVisible(false);
        new Login_user().setVisible(true);}
    if(evt.getSource() == jButton1){
        this.setVisible(false);
        new Login_user();
    } // GEN-LAST:event_jButton1ActionPerformed
}
private void
tton2ActionPerformed(java.awt.event.ActionEvent
) { // GEN-FIRST:event_jButton2ActionPerformed
    // TODO add your handling code here:
    String msg = evt.getActionCommand();
    if(msg.equals("SIGN UP")){
        setVisible(false);
        new Signup().setVisible(true);}
    if(evt.getSource() == jButton2){
        this.setVisible(false);
        new Signup();
    } // GEN-LAST:event_jButton2ActionPerformed
}
/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc="
look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not
available, stay with the default look and feel.
    * For details see

```



```

: //download.oracle.com/javase/tutorial/uiswing/lookan
el/plaf.html
    */
    try {
        for
        javax.swing.UIManager.LookAndFeelInfo info :
        javax.swing.UIManager.getInstalledLookAndFeels() {
            if ("Nimbus".equals(info.getName())) {

                javax.swing.UIManager.setLookAndFeel(info.getClassName
                ));
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(Index.class.getName()
        ).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(Index.class.getName()
        ).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

        java.util.logging.Logger.getLogger(Index.class.getName()
        ).log(java.util.logging.Level.SEVERE, null, ex);
    } catch
    javax.swing.UnsupportedLookAndFeelException ex) {

        java.util.logging.Logger.getLogger(Index.class.getName()
        ).log(java.util.logging.Level.SEVERE, null, ex);
    }
    //</editor-fold>
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new
    Runnable() {
        @Override
        public void run() {
            new Index().setVisible(true);
        }
    });
    // Variables declaration - do not modify//GEN-
    ERATED: variables
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;

```

	<pre> private javax.swing.JLabel jLabel1; private javax.swing.JLabel jLabel2; // End of variables declaration//GEN- D:variables } </pre>
IssueBook.java	<pre> package ; import java.awt.*; import javax.swing.*; import javax.swing.border.*; import java.awt.event.*; import java.sql.*; import java.util.Scanner; public class IssueBook extends JFrame implements ionListener{ private JPanel contentPane; private JTextField 2,t3,t4,t5,t6,t7,t8,t9,t10,t11,t12,t13,t14,t15,t16; private JButton b1,b2,b3,b4; public static void main(String[] args) { new IssueBook().setVisible(true); } public IssueBook() { setBounds(300, 200, 900, 500); contentPane = new JPanel(); contentPane.setBorder(new EmptyBorder(5, 5, 5, setContentPane(contentPane); contentPane.setBackground(Color.gray); contentPane.setLayout(null); JLabel l1 = new JLabel("Book_id"); l1.setFont(new Font("Tahoma", Font.BOLD, 14)); l1.setForeground(new Color(47, 79, 79)); l1.setBounds(47, 63, 100, 23); contentPane.add(l1); JLabel l2 = new JLabel("Name"); l2.setForeground(new Color(47, 79, 79)); l2.setFont(new Font("Tahoma", Font.BOLD, 14)); l2.setBounds(47, 97, 100, 23); contentPane.add(l2); JLabel l3 = new JLabel("ISBN"); l3.setForeground(new Color(47, 79, 79)); l3.setFont(new Font("Tahoma", Font.BOLD, 14)); l3.setBounds(47, 131, 100, 23); contentPane.add(l3); </pre>

	<pre> JLabel l4 = new JLabel("Publisher"); l4.setForeground(new Color(47, 79, 79)); l4.setFont(new Font("Tahoma", Font.BOLD, 14)); l4.setBounds(47, 165, 100, 23); contentPane.add(l4); JLabel l5 = new JLabel("Edition"); l5.setForeground(new Color(47, 79, 79)); l5.setFont(new Font("Tahoma", Font.BOLD, 14)); l5.setBounds(47, 199, 100, 23); contentPane.add(l5); JLabel l6 = new JLabel("Price"); l6.setForeground(new Color(47, 79, 79)); l6.setFont(new Font("Tahoma", Font.BOLD, 14)); l6.setBounds(47, 233, 100, 23); contentPane.add(l6); JLabel l7 = new JLabel("Pages"); l7.setForeground(new Color(47, 79, 79)); l7.setFont(new Font("Tahoma", Font.BOLD, 14)); l7.setBounds(47, 267, 100, 23); contentPane.add(l7); t1 = new JTextField(); t1.setForeground(new Color(47, 79, 79)); t1.setFont(new Font("Trebuchet MS", Font.BOLD,); t1.setBounds(126, 62, 100, 26); contentPane.add(t1); t1.setColumns(10); b1 = new JButton("Search"); b1.addActionListener(this); b1.setBorder(new LineBorder(new Color(192, 192,), 1, true)); b1.setBackground(Color.BLACK); b1.setForeground(Color.WHITE); b1.setFont(new Font("Trebuchet MS", Font.BOLD,); b1.setBounds(234, 59, 100, 30); contentPane.add(b1); t2 = new JTextField(); t2.setEditable(false); t2.setForeground(new Color(47, 79, 79)); t2.setFont(new Font("Trebuchet MS", Font.BOLD,); t2.setBounds(126, 100, 208, 20); contentPane.add(t2); t2.setColumns(10); </pre>
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	<pre> t3 = new JTextField(); t3.setEditable(false); t3.setForeground(new Color(47, 79, 79)); t3.setFont(new Font("Trebuchet MS", Font.BOLD,); t3.setColumns(10); t3.setBounds(126, 131, 208, 20); contentPane.add(t3); t4 = new JTextField(); t4.setEditable(false); t4.setForeground(new Color(47, 79, 79)); t4.setFont(new Font("Trebuchet MS", Font.BOLD,); t4.setColumns(10); t4.setBounds(126, 168, 208, 20); contentPane.add(t4); t5 = new JTextField(); t5.setEditable(false); t5.setForeground(new Color(47, 79, 79)); t5.setFont(new Font("Trebuchet MS", Font.BOLD,); t5.setColumns(10); t5.setBounds(126, 202, 208, 20); contentPane.add(t5); t6 = new JTextField(); t6.setEditable(false); t6.setForeground(new Color(47, 79, 79)); t6.setFont(new Font("Trebuchet MS", Font.BOLD,); t6.setColumns(10); t6.setBounds(126, 236, 208, 20); contentPane.add(t6); t7 = new JTextField(); t7.setEditable(false); t7.setForeground(new Color(47, 79, 79)); t7.setFont(new Font("Trebuchet MS", Font.BOLD,); t7.setColumns(10); t7.setBounds(126, 270, 208, 20); contentPane.add(t7); JPanel panel = new JPanel(); panel.setBorder(new TitledBorder(new eBorder(new Color(47, 79, 79), 2, true), "Issue- k", TitledBorder.LEADING, TitledBorder.TOP, null, r Color(34, 139, 34))); </pre>
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	<pre> panel.setFont(new Font("Tahoma", Font.BOLD,); panel.setBounds(10, 38, 345, 288); panel.setBackground(Color.WHITE); contentPane.add(panel); JLabel l8 = new JLabel("Student_id"); l8.setForeground(new Color(47, 79, 79)); l8.setFont(new Font("Tahoma", Font.BOLD, 14)); l8.setBounds(384, 63, 100, 23); contentPane.add(l8); JLabel l9 = new JLabel("Name"); l9.setForeground(new Color(47, 79, 79)); l9.setFont(new Font("Tahoma", Font.BOLD, 14)); l9.setBounds(384, 103, 100, 23); contentPane.add(l9); JLabel l10 = new JLabel("Father's Name"); l10.setForeground(new Color(47, 79, 79)); l10.setFont(new Font("Tahoma", Font.BOLD, 14)); l10.setBounds(384, 147, 100, 23); contentPane.add(l10); JLabel l11 = new JLabel("Course"); l11.setForeground(new Color(47, 79, 79)); l11.setFont(new Font("Tahoma", Font.BOLD, 14)); l11.setBounds(384, 187, 100, 23); contentPane.add(l11); JLabel l12 = new JLabel("Branch"); l12.setForeground(new Color(47, 79, 79)); l12.setFont(new Font("Tahoma", Font.BOLD, 14)); l12.setBounds(384, 233, 100, 23); contentPane.add(l12); JLabel l13 = new JLabel("Year"); l13.setForeground(new Color(47, 79, 79)); l13.setFont(new Font("Tahoma", Font.BOLD, 14)); l13.setBounds(384, 284, 100, 23); contentPane.add(l13); JLabel l14 = new JLabel("Semester"); l14.setForeground(new Color(47, 79, 79)); l14.setFont(new Font("Tahoma", Font.BOLD, 14)); l14.setBounds(384, 336, 100, 23); contentPane.add(l14); t8 = new JTextField(); t8.setForeground(new Color(47, 79, 79)); t8.setFont(new Font("Trebuchet MS", Font.BOLD,); t8.setColumns(10); t8.setBounds(508, 66, 86, 20); </pre>
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contentPane.add(t8);
b2 = new JButton("Search");
b2.addActionListener(this);
b2.setFont(new Font("Trebuchet MS", Font.BOLD,
);
b2.setBorder(new LineBorder(new Color(192, 192,
), 1, true));
b2.setBounds(604, 59, 100, 30);
b2.setBackground(Color.BLACK);
b2.setForeground(Color.WHITE);
contentPane.add(b2);
t9 = new JTextField();
t9.setForeground(new Color(47, 79, 79));
t9.setFont(new Font("Trebuchet MS", Font.BOLD,
);
t9.setEditable(false);
t9.setColumns(10);
t9.setBounds(508, 106, 208, 20);
contentPane.add(t9);
t10 = new JTextField();
t10.setForeground(new Color(47, 79, 79));
t10.setFont(new Font("Trebuchet MS",
t.BOLD, 14));
t10.setEditable(false);
t10.setColumns(10);
t10.setBounds(508, 150, 208, 20);
contentPane.add(t10);
t11 = new JTextField();
t11.setForeground(new Color(47, 79, 79));
t11.setFont(new Font("Trebuchet MS",
t.BOLD, 14));
t11.setEditable(false);
t11.setColumns(10);
t11.setBounds(508, 190, 208, 20);
contentPane.add(t11);
t12 = new JTextField();
t12.setForeground(new Color(47, 79, 79));
t12.setFont(new Font("Trebuchet MS",
t.BOLD, 14));
t12.setEditable(false);
t12.setColumns(10);
t12.setBounds(508, 236, 208, 20);
contentPane.add(t12);
t13 = new JTextField();
t13.setForeground(new Color(47, 79, 79));
t13.setFont(new Font("Trebuchet MS",

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	<pre> t1.BOLD, 14)); t13.setEditable(false); t13.setColumns(10); t13.setBounds(508, 286, 208, 20); contentPane.add(t13); t14 = new JTextField(); t14.setForeground(new Color(47, 79, 79)); t14.setFont(new Font("Trebuchet MS", t1.BOLD, 14)); t14.setEditable(false); t14.setColumns(10); t14.setBounds(508, 338, 208, 20); contentPane.add(t14); JPanel panel_1 = new JPanel(); panel_1.setBorder(new TitledBorder(new eBorder(new Color(70, 130, 180), 2, true), "Student- itails", TitledBorder.LEADING, TitledBorder.TOP, null, r Color(100, 149, 237))); panel_1.setForeground(new Color(0, 100, 0)); panel_1.setBounds(360, 38, 378, 372); panel_1.setBackground(Color.WHITE); contentPane.add(panel_1); JLabel l15 = new JLabel(" Date of Issue :"); l15.setForeground(Color.BLACK); l15.setFont(new Font("Trebuchet MS", t1.BOLD, 15)); l15.setBounds(20, 340, 118, 26); contentPane.add(l15); JLabel l16 = new JLabel(" Date of Return :"); l16.setForeground(Color.BLACK); l16.setFont(new Font("Trebuchet MS", t1.BOLD, 15)); l16.setBounds(20, 370, 118, 26); contentPane.add(l16); t15 = new JTextField(); t15.setForeground(new Color(47, 79, 79)); t15.setFont(new Font("Trebuchet MS", t1.BOLD, 14)); t15.setColumns(10); t15.setBounds(126, 340, 208, 20); contentPane.add(t15); t16 = new JTextField(); t16.setForeground(new Color(47, 79, 79)); t16.setFont(new Font("Trebuchet MS", </pre>
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	<pre> t1.BOLD, 14)); t16.setColumns(10); t16.setBounds(126, 370, 208, 20); contentPane.add(t16); b3 = new JButton("Issue"); b3.addActionListener(this); b3.setFont(new Font("Trebuchet MS", Font.BOLD,); b3.setBorder(new LineBorder(new Color(192, 192,), 1, true)); b3.setBounds(47, 395, 118, 33); b3.setBackground(Color.BLACK); b3.setForeground(Color.WHITE); contentPane.add(b3); b4 = new JButton("Back"); b4.addActionListener(this); b4.setFont(new Font("Trebuchet MS", Font.BOLD,); b4.setBorder(new LineBorder(new Color(192, 192,), 1, true)); b4.setBounds(199, 395, 100, 33); b4.setBackground(Color.BLACK); b4.setForeground(Color.WHITE); contentPane.add(b4); } @Override public void actionPerformed(ActionEvent ae){ } } </pre>
Login_user.java	<pre> package ; import java.awt.*; import javax.swing.*; import java.sql.*; import java.awt.event.*; import javax.swing.border.*; public class Signup extends JFrame implements ionListener{ private JPanel contentPane; private JTextField textField; private JTextField textField_1; private JTextField textField_2; private JTextField textField_3; private JButton b1, b2; </pre>


```

private JComboBox comboBox;
public static void main(String[] args) {
    new Signup().setVisible(true);
}
public Signup() {
    setBounds(600, 250, 606, 406);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5,
, 5));
    setContentPane(contentPane);
    contentPane.setBackground(Color.WHITE);
    contentPane.setLayout(null);
    JLabel lblUsername = new
bel("Username :");
    lblUsername.setForeground(Color.DARK_
AY);
    lblUsername.setFont(new Font("Tahoma",
it.BOLD, 14));
    lblUsername.setBounds(99, 86, 92, 26);
    contentPane.add(lblUsername);
    JLabel lblName = new JLabel("Name :");
    lblName.setForeground(Color.DARK_GRA

    lblName.setFont(new Font("Tahoma",
it.BOLD, 14));
    lblName.setBounds(99, 123, 92, 26);
    contentPane.add(lblName);
    JLabel lblPassword = new
bel("Password :");
    lblPassword.setForeground(Color.DARK_G
Y);
    lblPassword.setFont(new Font("Tahoma",
it.BOLD, 14));
    lblPassword.setBounds(99, 160, 92, 26);
    contentPane.add(lblPassword);
    textField = new JTextField();
    textField.setBounds(265, 91, 148, 20);
    contentPane.add(textField);
    textField.setColumns(10);
    textField_1 = new JTextField();
    textField_1.setColumns(10);
    textField_1.setBounds(265, 128, 148, 20);
    contentPane.add(textField_1);
    textField_2 = new JTextField();
    textField_2.setColumns(10);
    textField_2.setBounds(265, 165, 148, 20);

```

	<pre> contentPane.add(textField_2); b1 = new JButton("Create"); b1.addActionListener(this); b1.setFont(new Font("Tahoma", it.BOLD, 13)); b1.setBounds(140, 239, 100, 30); b1.setBackground(Color.BLUE); b1.setForeground(Color.WHITE); contentPane.add(b1); b2 = new JButton("Back"); b2.addActionListener(this); b2.setFont(new Font("Tahoma", it.BOLD, 13)); b2.setBounds(300, 239, 100, 30); b2.setBackground(Color.BLUE); b2.setForeground(Color.WHITE); contentPane.add(b2); JPanel panel = new JPanel(); panel.setForeground(new Color(34, 139,); panel.setBorder(new TitledBorder(new eBorder(new Color(128, 128, 0), 2), "Create- ount", TitledBorder.LEADING, edBorder.TOP, null, new Color(34, 139, 34))); panel.setBounds(31, 46, 476, 296); panel.setBackground(Color.WHITE); contentPane.add(panel); } public void actionPerformed(ActionEvent ae){ String msg = ae.getActionCommand(); if(msg.equals("Back")){ setVisible(false); new Login_user().setVisible(true);} if(ae.getSource() == b2){ this.setVisible(false); new Login_user(); } } } </pre>
Signup.java	<pre> pac e ; import java.awt.*; </pre>

```

import javax.swing.*;
import java.sql.*;
import java.awt.event.*;
import javax.swing.border.*;
public class Signup extends JFrame implements
ionListener{
    private JPanel contentPane;
    private JTextField textField;
    private JTextField textField_1;
    private JTextField textField_2;
    private JTextField textField_3;
    private JButton b1, b2;
    private JComboBox comboBox;
    public static void main(String[] args) {
        new Signup().setVisible(true);
    }
    public Signup() {
        setBounds(600, 250, 606, 406);
        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5
, 5));
        setContentPane(contentPane);
        contentPane.setBackground(Color.WHITE);
        contentPane.setLayout(null);
        JLabel lblUsername = new
bel("Username :");
        lblUsername.setForeground(Color.DARK_
AY);
        lblUsername.setFont(new Font("Tahoma",
it.BOLD, 14));
        lblUsername.setBounds(99, 86, 92, 26);
        contentPane.add(lblUsername);
        JLabel lblName = new JLabel("Name :");
        lblName.setForeground(Color.DARK_GRA
        lblName.setFont(new Font("Tahoma",
it.BOLD, 14));
        lblName.setBounds(99, 123, 92, 26);
        contentPane.add(lblName);
        JLabel lblPassword = new
bel("Password :");
        lblPassword.setForeground(Color.DARK_G
Y);
        lblPassword.setFont(new Font("Tahoma",
it.BOLD, 14));
        lblPassword.setBounds(99, 160, 92, 26);

```

	<pre> contentPane.add(lblPassword); textField = new JTextField(); textField.setBounds(265, 91, 148, 20); contentPane.add(textField); textField.setColumns(10); textField_1 = new JTextField(); textField_1.setColumns(10); textField_1.setBounds(265, 128, 148, 20); contentPane.add(textField_1); textField_2 = new JTextField(); textField_2.setColumns(10); textField_2.setBounds(265, 165, 148, 20); contentPane.add(textField_2); b1 = new JButton("Create"); b1.addActionListener(this); b1.setFont(new Font("Tahoma", it.BOLD, 13)); b1.setBounds(140, 239, 100, 30); b1.setBackground(Color.BLUE); b1.setForeground(Color.WHITE); contentPane.add(b1); b2 = new JButton("Back"); b2.addActionListener(this); b2.setFont(new Font("Tahoma", it.BOLD, 13)); b2.setBounds(300, 239, 100, 30); b2.setBackground(Color.BLUE); b2.setForeground(Color.WHITE); contentPane.add(b2); JPanel panel = new JPanel(); panel.setForeground(new Color(34, 139,); panel.setBorder(new TitledBorder(new eBorder(new Color(128, 128, 0), 2), "Create- ount", TitledBorder.LEADING, edBorder.TOP, null, new Color(34, 139, 34))); panel.setBounds(31, 46, 476, 296); panel.setBackground(Color.WHITE); contentPane.add(panel); } public void actionPerformed(ActionEvent ae){ String msg = ae.getActionCommand(); if(msg.equals("Back")){ setVisible(false); </pre>
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	<pre> new Login_user().setVisible(true);} if(ae.getSource() == b2){ this.setVisible(false); new Login_user(); } } } </pre>
Uhome.form	<pre> <?xml version=" ", encoding= UTF-8" <Form version="1.3" maxVersion="1.9" xmlns="org.netbeans.modules.form.forminfo.JFrameFor Info"> <Properties> <Property name="defaultCloseOperation" xmlns="int" value="3"/> </Properties> <SyntheticProperties> <SyntheticProperty name="formSizePolicy" xmlns="int" value="1"/> <SyntheticProperty name="generateCenter" xmlns="boolean" value="false"/> </SyntheticProperties> <AuxValues> <AuxValue xmlns="FormSettings_autoResourcing" xmlns="java.lang.Integer" value="0"/> <AuxValue xmlns="FormSettings_autoSetComponentName" xmlns="java.lang.Boolean" value="false"/> <AuxValue xmlns="FormSettings_generateFQN" xmlns="java.lang.Boolean" value="true"/> <AuxValue xmlns="FormSettings_generateMnemonicsCode" xmlns="java.lang.Boolean" value="false"/> <AuxValue xmlns="FormSettings_isAutoMode" xmlns="java.lang.Boolean" value="false"/> <AuxValue xmlns="FormSettings_layoutCodeTarget" </pre>

	<pre> <AuxValue name="FormSettings_listenerGenerationStyle" value="java.lang.Integer" value="1"/> <AuxValue name="FormSettings_variablesLocal" value="java.lang.Boolean" value="false"/> <AuxValue name="FormSettings_variablesModifier" value="java.lang.Integer" value="2"/> <AuxValue name="designerSize" value="java.awt.Dimension" value="-84,- 0,5,115,114,0,18,106,97,118,97,46,97,119,116,46,6 0,5,109,101,110,115,105,111,110,65,-114,-39,-41,- 0,5,68,20,2,0,2,73,0,6,104,101,105,103,104,116,73,0 19,105,100,116,104,120,112,0,0,2,58,0,0,3,-80"/> </AuxValues> <Layout class="org.netbeans.modules.form.compat2.layouts.Des ignAbsoluteLayout"> <Property name="useNullLayout" value="boolean" value="false"/> </Layout> <SubComponents> <Component class="javax.swing.JLabel" name="jLabel1"> <Properties> <Property name="font" type="java.awt.Font" class="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="foreground" value="java.awt.Color" class="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="0" green="0" red="ff" value="rgb"/> </Property> <Property name="text" value="java.lang.String" value="LIBRARY MANAGEMENT SYSTEM"/> </Properties> <Constraints> <Constraint class="org.netbeans.modules.form.compat2.layo utDesignAbsoluteLayout" </pre>
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	<pre> ie="org.netbeans.modules.form.compat2.layouts.D gnAbsoluteLayout\$AbsoluteConstraintsDescription <AbsoluteConstraints x="220" y="58" width="610" height="80"/> </Constraint> </Constraints> </Component> <Component class="javax.swing.JButton" name="jButton1"> <Properties> <Property name="font" type="java.awt.Font" for="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="foreground" e="java.awt.Color" for="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="f8" green="6" red="0" e="rgb"/> </Property> <Property name="text" e="java.lang.String" value="STATISTICS"/> </Properties> <Events> <EventHandler event="actionPerformed" ener="java.awt.event.ActionListener" ameters="java.awt.event.ActionEvent" dler="jButton1 ActionPerformed"/> </Events> <Constraints> <Constraint outClass="org.netbeans.modules.form.compat2.layo DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.D gnAbsoluteLayout\$AbsoluteConstraintsDescription <AbsoluteConstraints x="240" y="390" width="205" height="62"/> </Constraint> </Constraints> </Component> <Component class="javax.swing.JButton" name="jButton2"> <Properties> </pre>
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	<pre> <Property name="font" type="java.awt.Font" for="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="foreground" e="java.awt.Color" for="org.netbeans.beaninfo.editors.ColorEditor"> <Color blue="fa" green="0" red="0" e="rgb"/> </Property> <Property name="text" e="java.lang.String" value="SEARCH"/> </Properties> <Events> <EventHandler event="actionPerformed" ener="java.awt.event.ActionListener" ameters="java.awt.event.ActionEvent" dler="jButton2ActionPerformed"/> </Events> <Constraints> <Constraint outClass="org.netbeans.modules.form.compat2.layout DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.D gnAbsoluteLayout\$AbsoluteConstraintsDescription <AbsoluteConstraints x="500" y="390" th="205" height="62"/> </Constraint> </Constraints> </Component> <Component class="javax.swing.JLabel" ie="jLabel2"> <Properties> <Property name="font" type="java.awt.Font" for="org.netbeans.beaninfo.editors.FontEditor"> </Property> <Property name="icon" e="javax.swing.Icon" for="org.netbeans.modules.form.editors2.IconEditor <Image iconType="3" ie="/lsm/Pictures/PROJ4.jpg"/> </pre>
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	<pre> </Property> </Properties> <Constraints> <Constraint outClass="org.netbeans.modules.form.compat2.layo DesignAbsoluteLayout" ie="org.netbeans.modules.form.compat2.layouts.D nAbsoluteLayout\$AbsoluteConstraintsDescription <AbsoluteConstraints x="0" y="0" th="950" height="570"/> </Constraint> </Constraints> </Component> </SubComponents> </Form> </pre>
Uhome.java	<pre> /* * To change this license header, choose License * headers in Project Properties. * To change this template file, choose Tools * Templates * and open the template in the editor. */ package lsm; /** * * @author User */ public class Uhome extends javax.swing.JFrame { /** * Creates new form Uhome */ public Uhome() { initComponents(); } /** * This method is called from within the * constructor to initialize the form. * WARNING: Do NOT modify this code. The * content of this method is always * regenerated by the Form Editor. */ @SuppressWarnings("unchecked") // <editor-fold defaultstate="collapsed" > <code> Generated Code </code> //GEN-BEGIN: initComponents private void initComponents() { </pre>

	<pre> jLabel1 = new javax.swing.JLabel(); jButton1 = new javax.swing.JButton(); jButton2 = new javax.swing.JButton(); jLabel2 = new javax.swing.JLabel(); DefaultCloseOperation(javax.swing.WindowConstants. IT_ON_CLOSE); getContentPane().setLayout(new .netbeans.lib.awtextra.AbsoluteLayout()); jLabel1.setFont(new java.awt.Font("Calibri", 1,); // NOI18N jLabel1.setForeground(new java.awt.Color(255,)); jLabel1.setText("LIBRARY MANAGEMENT STEM"); getContentPane().add(jLabel1, new .netbeans.lib.awtextra.AbsoluteConstraints(220, 58, , 80)); jButton1.setFont(new java.awt.Font("Calibri", 1,); // NOI18N jButton1.setForeground(new java.awt.Color(0, 48)); jButton1.setText("STATISTICS"); jButton1.addActionListener(new java.awt.event.ActionListener() { public void onPerformed(java.awt.event.ActionEvent evt) { jButton1ActionPerformed(evt); } }); getContentPane().add(jButton1, new .netbeans.lib.awtextra.AbsoluteConstraints(240, 390, , 62)); jButton2.setFont(new java.awt.Font("Calibri", 1,); // NOI18N jButton2.setForeground(new java.awt.Color(0, 50)); jButton2.setText("SEARCH"); jButton2.addActionListener(new java.awt.event.ActionListener() { public void onPerformed(java.awt.event.ActionEvent evt) { jButton2ActionPerformed(evt); } }); getContentPane().add(jButton2, new </pre>
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```

.netbeans.lib.awtextra.AbsoluteConstraints(500, 390,
, 62));
jLabel2.setFont(new java.awt.Font("Tahoma", 0,
); // NOI18N
jLabel2.setIcon(new
ix.swing.ImageIcon(getClass().getResource("/lsm/Pict
s/PROJ4.jpg"))); // NOI18N
getContentPane().add(jLabel2, new
.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 950,
));
pack();
} // </editor-fold> // GEN-END: initComponents
private void
tton1ActionPerformed(java.awt.event.ActionEvent
) { // GEN-FIRST:event_jButton1ActionPerformed
    // TODO add your handling code here:
} // GEN-LAST:event_jButton1ActionPerformed
private void
tton2ActionPerformed(java.awt.event.ActionEvent
) { // GEN-FIRST:event_jButton2ActionPerformed
    // TODO add your handling code here:
} // GEN-LAST:event_jButton2ActionPerformed
/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc="
look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not
available, stay with the default look and feel.
    * For details see
    ://download.oracle.com/javase/tutorial/uiswing/lookan
al/plaf.html
    */
    try {
        for
        javax.swing.UIManager.LookAndFeelInfo info :
        javax.swing.UIManager.getInstalledLookAndFeels() {
            if ("Nimbus".equals(info.getName())) {

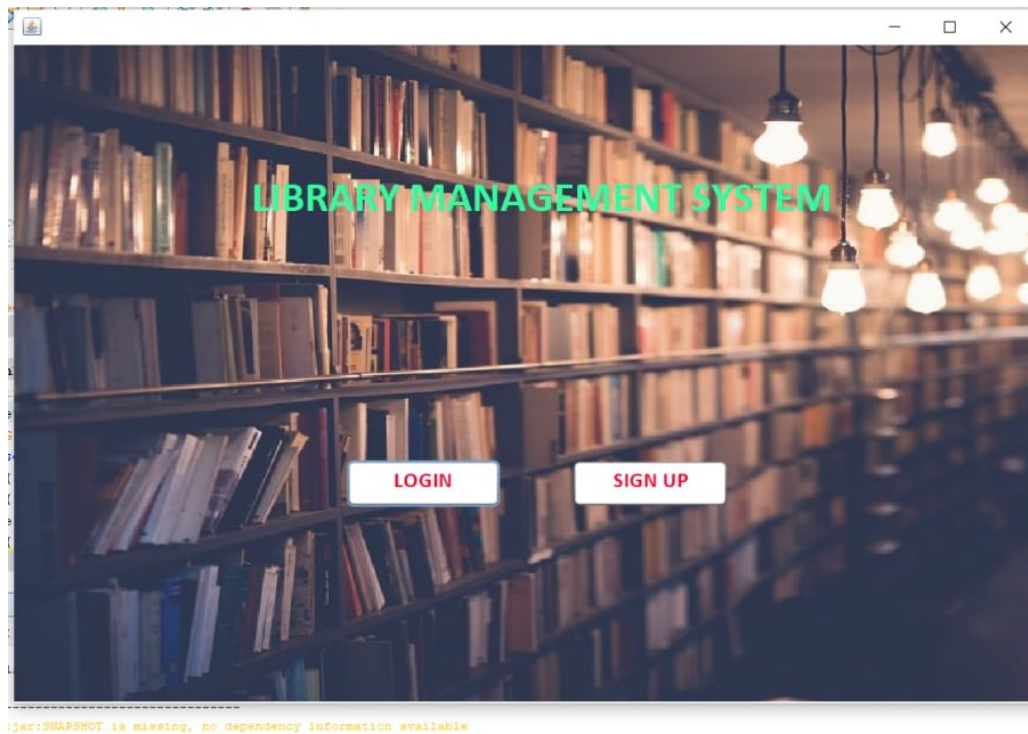
        javax.swing.UIManager.setLookAndFeel(info.getClassNa
));
            break;
        }
    }
}

```

	<pre> } catch (ClassNotFoundException ex) { u.util.logging.Logger.getLogger(Uhome.class.getName og(java.util.logging.Level.SEVERE, null, ex); } catch (InstantiationException ex) { u.util.logging.Logger.getLogger(Uhome.class.getName og(java.util.logging.Level.SEVERE, null, ex); } catch (IllegalAccessException ex) { u.util.logging.Logger.getLogger(Uhome.class.getName og(java.util.logging.Level.SEVERE, null, ex); } catch ax.swing.UnsupportedLookAndFeelException ex) { u.util.logging.Logger.getLogger(Uhome.class.getName og(java.util.logging.Level.SEVERE, null, ex); } //</editor-fold> /* Create and display the form */ java.awt.EventQueue.invokeLater(new mable() { @Override public void run() { new Uhome().setVisible(true); } }); } // Variables declaration - do not modify//GEN- GIN:variables private javax.swing.JButton jButton1; private javax.swing.JButton jButton2; private javax.swing.JLabel jLabel1; private javax.swing.JLabel jLabel2; // End of variables declaration//GEN- D:variables } </pre>
--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

6.SCREENSHOT

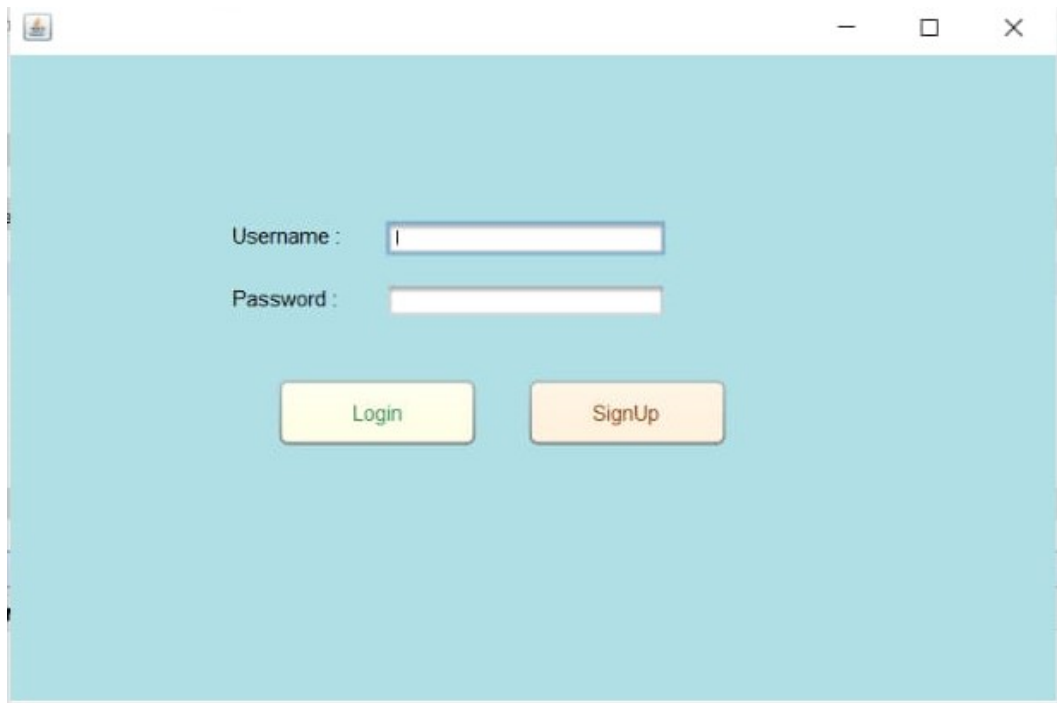
HOME PAGE



ADMIN SIGN UP

A screenshot of a web browser window showing a "Create-Account" form. The form is enclosed in a green rectangular border. It contains three input fields: "Username :", "Name :", and "Password :". The "Username" field has a blue border and contains the letter "l". Below the input fields are two blue buttons with white text: "Create" and "Back".

ADMIN LOGIN PAGE



A screenshot of a web application window with a light blue background. It features a login and signup form. The form includes two input fields: 'Username' and 'Password'. Below these fields are two buttons: 'Login' (yellow) and 'SignUp' (orange). The window has standard OS controls (minimize, maximize, close) in the top right corner.

Username :


Password :

Login SignUp

ADMIN HOME PAGE



ADD USER PAGE


 Add User

Add-user

USER ID	<input type="text" value="3448"/>
Name	<input type="text"/>
Address	<input type="text"/>
Gender	<input type="text" value="Male"/>
E-mail	<input type="text"/>
Phone	<input type="text"/>

ADD **Back**

RETURN BOOK



Return-Panel

Book_id	<input type="text"/>	Student_id	<input type="text"/>	Search
Book	<input type="text"/>	Name	<input type="text"/>	
Course	<input type="text"/>	Branch	<input type="text"/>	
Date of Issue	<input type="text"/>	Return		
Date of Return	<input type="text"/>	Back		

ISSUE BOOK

The screenshot displays a web application interface for a library management system. It features two main panels side-by-side. The left panel, titled 'Issue-Book', contains a search bar with a 'Search' button and several input fields for book details: Book_id, Name, ISBN, Publisher, Edition, Price, and Pages. Below these fields are two more input fields for 'Date of Iss...' and 'Date of Ret...', followed by 'Issue' and 'Back' buttons. The right panel, titled 'Student-Details', also has a search bar with a 'Search' button and input fields for Student_id, Name, Father's N..., Course, Branch, Year, and Semester.

SEARCH BOOK

The screenshot shows a window titled 'Search a Book'. At the top, there is a search bar with a 'Search' button. Below the search bar, the text 'Your search for book:' is displayed. Underneath, there is a table with the following columns: Book_Id, Book Name, Publisher, No. of Copi..., Available, and Expected return d... The table is currently empty, showing only the header row.

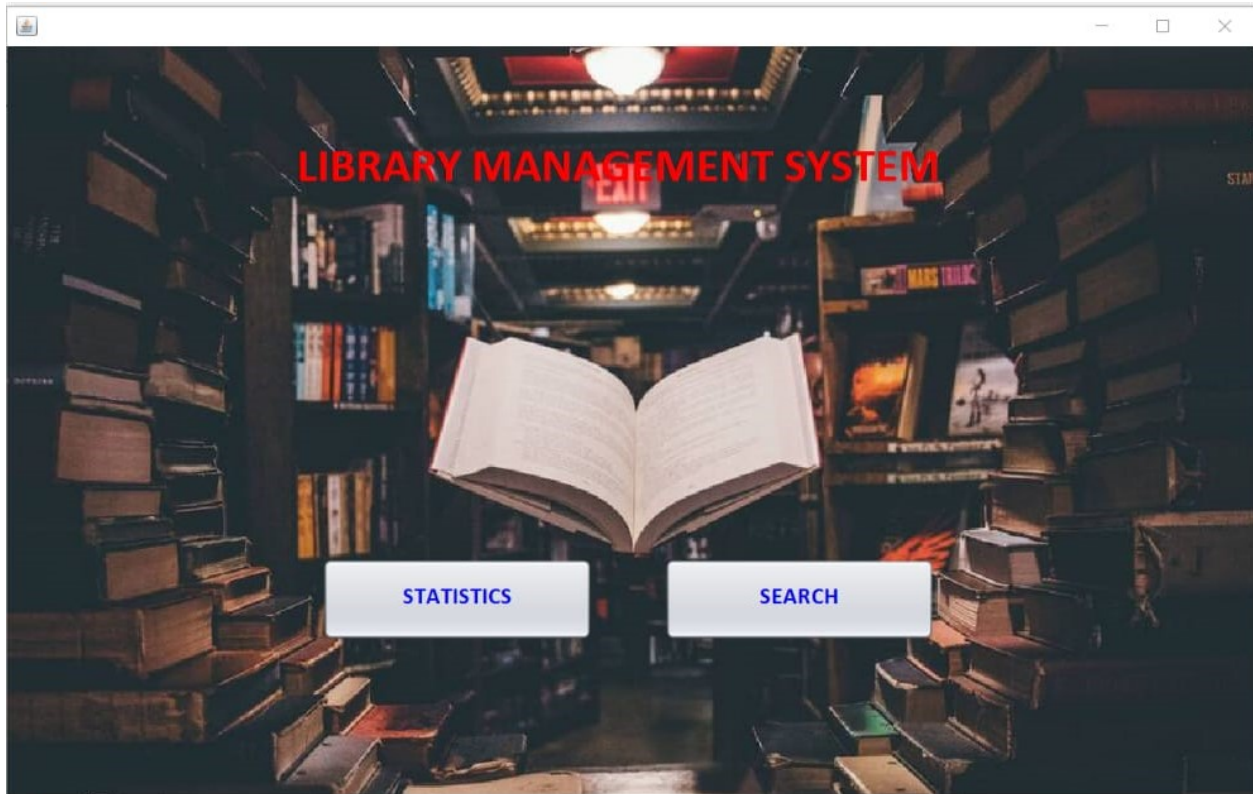
ADD BOOK



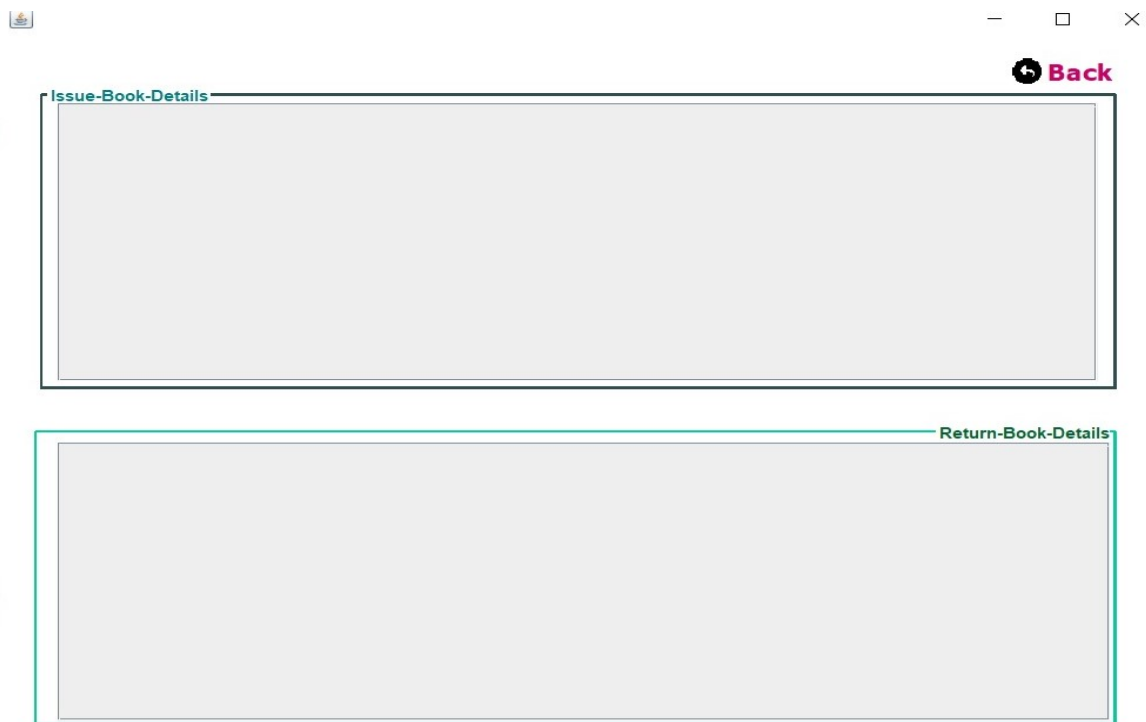
The screenshot shows a web browser window with a light blue background. In the center, there is a white rectangular form titled "Add Books" in a small, bold, black font. The form contains the following fields and controls:

- Book_id**: A text input field containing the value "030".
- Name**: An empty text input field.
- ISBN**: An empty text input field.
- Publisher**: An empty text input field.
- Edition**: A dropdown menu with "1" selected and a small downward arrow on the right.
- Price**: An empty text input field.
- Pages**: An empty text input field.
- Buttons**: Two black buttons with white text, labeled "Add" and "Back", positioned side-by-side at the bottom of the form.

USER HOME PAGE



STATISTICS



8.CONCLUSION

Due to the many problems facing with the current system by the public, We made a completely new library management system that can produce computerized system for managing the activities of the library system. It is totally secured system that can be accessed only by the verified user putting the user name and password procedure.

To mitigate the issues of conventional and manual method of reservation and distribution of books to readers from library, the computerized Library Management System has been created. The Library Management System is a computerized system for assisting both the public and librarian/staff in borrowing and supervising the books. The system would provide fundamental set of features for adding and/or updating members, adding and/or updating books, getting the list of books, and borrowing books. Its development includes the formation and maintenance of back-end database with NoSQL and front-end application development aspects with JAVA.