

A Final Year Project Report on

**Student Information System**

**(SIS)**

**Submitted to:**

Department of Computer Science and Information Technology

New Summit College

Shantinagar-New Baneshowr, Kathmandu, Nepal

**In partial fulfilment of the requirements**

For the Bachelors of Science in Computer Science and InformationTechnology

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**Under the Supervision of**

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**1st September 2019**



**Student’s Declaration**

We hereby declare the project entitled **Student Information System** submitted to the office of dean, Faculty of Science and Technology, Tribhuvan University, is our project work done in partial fulfilment of the requirements for the Bachelor of Science in Computer Science and Information Technology under the supervision and guidance of **Mr. Bhupendra Saud** supervisor and **Chok Raj Dawadi**, Director (B.Sc.CSIT) New Summit College, Shantinagar-Tinkune, Kathmandu, Nepal.

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**1st September 2019**



**Supervisor’s Recommendation**

I hereby recommend that this project work, entitled **Student Information System (SIS)**, is satisfactory in the partial fulfilment for the requirement of Bachelor of Science in Computer Science and Information Technology and be processed for the evaluation.

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**Mr. Bhupendra Saud**



**Letter of Approval**

This is to certify that the project prepared by **Mr. Bikash Aryal [7170/072]**, **Mr. Prashant Pant [7185/071]**, **Mr. Rupak Poudyal [7196/071]** and **Mr. Sandesh Bikram Thapa** **[7196/071]** entitled **Student Information System (SIS)** in the partial fulfilment for the requirement of Bachelor of Science in Computer Science and Information Technology has been well studied. In our opinion it is satisfactory in the scope and quality as a project for the required degree.

------------------------------- ----------------------------

**Mr. Chok Raj Dawadi** **Mr. Bhupendra Saud**

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Kalanki, Kathmandu, Nepal New Summit College

**(Program Director )** **(Supervisor)**

# ACKNOWLEDGEMENT

We would like to express our special thanks of gratitude to our project supervisor Mr. Bhupendra Saud as well as our coordinator Mr. Chok Raj Dawadi who provided us the guidance to complete our project on .net based Student’s Information system (SIS, which helped us in doing a lot of research, also we came to know a lot about new things, we are really thankful to them.

Finally, we would like to thank the management body of New Summit College and classmates for helping us tackle the obstacles to complete the project within the given timeframe.

# ABSTRACT

Technology has been improving at a tremendous pace in today’s world. Every single thing is being digitized which somehow has made human life easier. Education system in Nepal has not been technologize. Colleges could not share important notices or notes throught proper websites to their students. Student Information System (SIS) is a web-based application that provides students and teachers to properly share notes and notices. The system which is developed in this project, student information system, provides users a simple and efficient way of maintaining student information and makes teaching, learning process easier. The main objective of this project is to help students to view notice and to download notes and faculty to publish notice for students and also upload study materials for students. Student information system deals with news and the details of student, instructor, and other resource related details.

Throughout the project the focus has been on presenting information and comments in an easy and intelligible manner. The project is very useful for those who want to know about Student’s Information System (SIS) in Colleges or Universities.

In the last, we gratefully acknowledge and express our gratitude to all the staff members of New Summit College and friends who supported us in preparing this project.

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# List of Abbreviations

CSS Cascading Style Sheets

DFD Data Flow Diagram

GUI Graphical User Interface

HTML Hypetext Markup Language

PHP Hypertext Preprocessor

SQL Structured Query Language

UTPs Unit Test Plans

# CHAPTER 1

# INTRODUCTION

# Introduction

SIS is a web-based application which provide efficient way of sharing study materials and notices.

We will create a user-friendly environment to the administrator, faculties, and students to manage data, provide notice and share notes and Student Information System makes teaching learning process easier. Similarly, we will implement user-based Collaborative Filtering algorithm to provide recommendation of studying materials for students to get better user-experience.

## Problem Statement

There is not a proper platform for sharing notes and notices for Colleges. Some of the colleges have college websites but they don’t have a proper student information system, others use Social media to share notes and notices, and this is the major problem for students not to get an efficient way to get and share notes.

There is no specific platform to gets notes. Students and colleges depend on social media just like Facebook to share notes and notices and this is a very time-consuming task for every teachers and students.

## Objectives

The main objective of the project Student Information System is to manage or provide an efficient way to share the study materials in Colleges or Universities. The project is totally built at administrative, teachers & students end but only administrator is guaranteed the access to create Techers or Students ID and also disable Teachers or Students. The purpose of the project is to build an application program to reduce the time consuming task of download notes or notices from Colleges & Universities.

The objectives are:

* Providing teachers an efficient way to sharing notices and study materials.
* Recommend study materials to students according to their choice.

## Scope and Limitations

The project product to be produced is a Library Management System which will automate the major library operations. The first subsystem is the registration of the users to the system to keep track of authorized users to the system. The second subsystem is the registration of new books into the library management system to know when new books are brought into the library. The third subsystem is a borrower and return of books which is the major area needed by the user.

There are three end users for the Library Management System. The end users are the admin, students and faculty.

Some of the limitations of the project are listed as:

1) Requires computer to run the application.

2) Cannot run offline

3) Only includes text and images

## Report Organization

Altogether the project is divided into five different chapters, each representing different development phase of the project. In Chapter 1, it deals with the introductory part of the project and explains about what the project is, how it came in idea, the main objective of the project that are planned to be achieved after the completion, its scope and limitations.

Chapter 2 is all about the research process carried out to do the project. It consists the background idea for the project as well as the study process that are required for this application to be popular among the users. Chapter 3 deals with the designing phase. System design consists of database design, interface design, and process design that are carried out to build this application.

Chapter 4isall about implementation and testing of this application. Various tools are used for implementation and testing is carried out using various test cases. Chapter 5 is all about maintenance and support for our project in future.

Finally, chapter 6 is about conclusion and recommendation which contains idea about what we achieved in the end of the project.

# CHAPTER 2

# REQUIREMENT ANALYSIS AND FEASIBILITY STUDY

## 2.1. Literature review

Recommender system are tool for filtering and sorting items and information by using opponents of a group of users to help individuals belonging to that specific group to more effectively identify the area of interest from a shape of choices [2]. There are various systems that tends to filter and then suggest the item best on certain properties. Some of the sites and papers that we have found to have relevant information and methodologies regarding our project are explain below with their main features:

Classe3.5 is a SIS software which provide features like course management, assignment, attendance and notice. This difference between this project and ours is that our project can recommend study materials to the students and provide faculty to upload study materials and notice.

## 2.2. Requirement Identification

Before setting up the system by software development tools, information will be gathered from the staff about the need for the users of the system like the staff of library and those readers by using qualitative gathering techniques (oral interviews). Before starting to implement the system, interviews will be made to get readers view on the system design works being done. Library Management System includes both functional and non-functional requirements.

### 2.2.1. Functional Requirement

It includes actual functionality of an application that consists user and admin authentication and validation. Similarly, it also facilities user to find out the expected and appropriate result from a set of items by applying sophisticated searching techniques.

System will recommend study materials to the Students according to the users implicit feedbacks.

Functional Requirements can be further explained with the help of following use-case diagram:

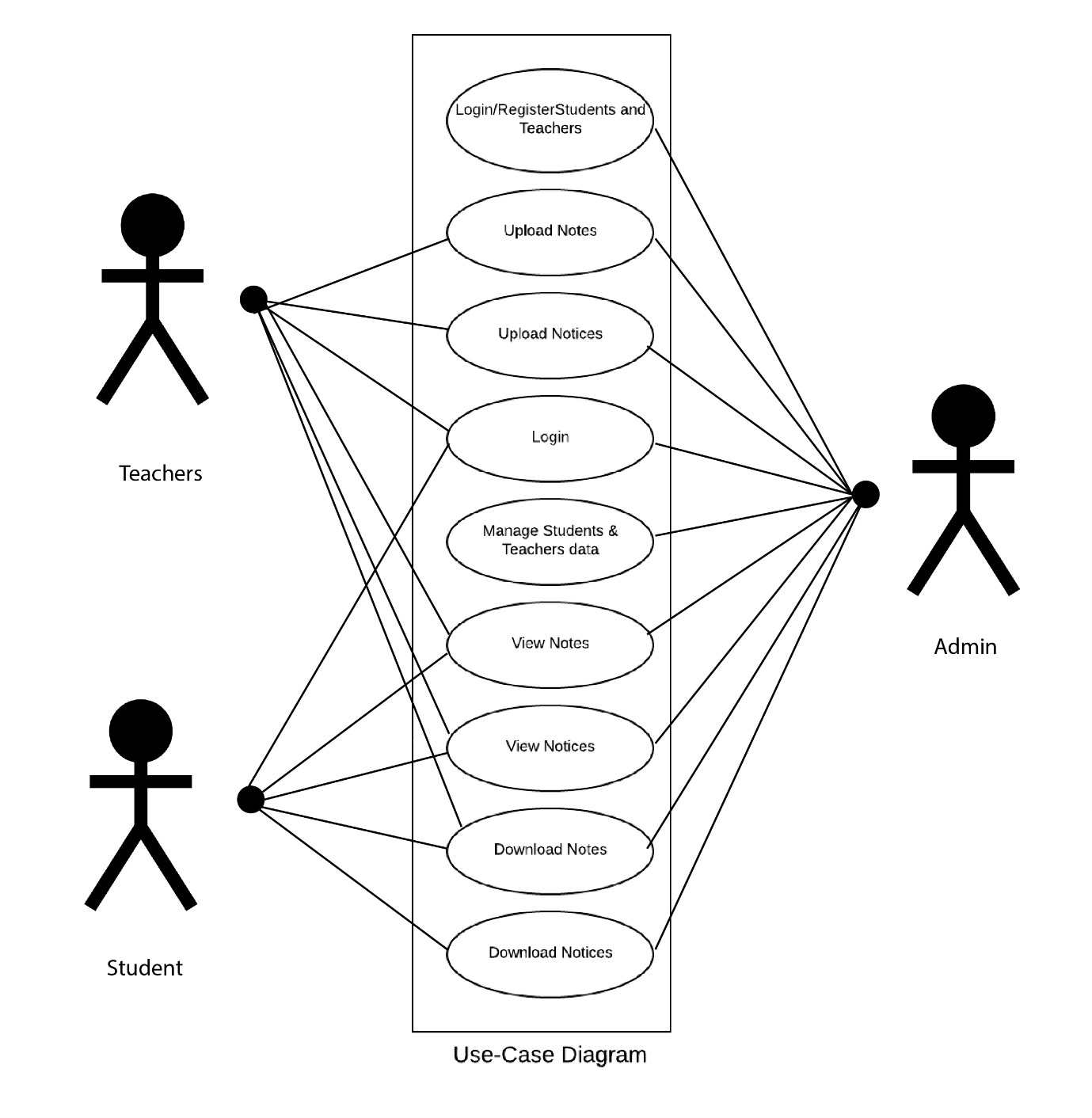


Figure 1. 1 Use case diagram to represent library management system

Use case diagram above shows the graphical overview of the actors involved in the system, different functions performed by actors, interaction with the system within environment. The system involves an actor, the user.

Here, two users are assumed as agents between whom the communication is done. Both the admin and students needs to create an account before accessing the system. Once the account has been created, one can access the library with their provided permission to access the files in the library. Here username with password is given to the user for more secure transaction in the library.

## 2.2. Non-functional Requirement

This part defines the quality or attributes and criteria that the system must satisfy like:

1. **User Friendly**

The web application is user-friendly enough to meet the computer knowledge and skill of general users. It ensures the we-application is user-friendly for all the devices.

1. **Session**

The web application must create session in order to maintain login and logout activity of the user.

1. **Reliability**

With Reliable source and the tool, the outcome would be reliable as well.

1. **Security**

Security nowadays is great issue, though this web application is no security driven. It will be ensured with a tight security of web application and the database system.

1. **Maintainability**

In order to maintain the web application, the data needs to be fetched and updated in time and again. Also, the tools need to be updated properly.

1. **Usability**

The simple and standardize UI Design with all the necessary features would be sufficient and efficient for a normal user to get along with the web application.

## 2.3. Data Collection

Data collection is the systematic approach to gather and measure information from a variety of sources to get complete and accurate picture of an area of interest. There are various methods for data collection that have been used for our project. They are as follows:

### 2.3.1. Interviews

Interview is the most efficient and effective way of finding the information. This project is concerned with the students and faculties who need efficient way to access the study materials. It is also concerned with Teachers who wants to aid to make a bridge between students and the Study Materials. Interviews would be done to investigate and identify the scenario that Students and Teachers are facing for sharing notes.

## 2.4. Feasibility Study

In feasibility study phase we had undergone through various steps which are describe as under:

* Identify the origin of the information at different level.
* Identify the expectation of user from computerized system.
* Analyse the drawback of existing system (manual) system.

### 2.4.1 Technical Feasibility

In this feasibility study, it shows that technically is it feasible to get required hardware, software and person having complete understanding of the requirements to develop the software package.

### 2.4.2. Operational Feasibility

In this feasibility study, we measure of how well a proposed system solves the problems, and takes advantage of the opportunities identified during scope definition and how it satisfies the requirements identified in the requirements analysis phase of system development.

### 2.4.3. Economic Feasibility

This application is economically feasible as very less amount of cost is utilized during the development phase. As all the developers and designers were library clients by themselves so the cost was very less. Similarly, by making this application freely available, it will be highly popularized among the library users.

## 2.5. Structuring System Requirements

### 2.5.1. Process Modeling

Description of different processes occurring at various levels are depicted in process modeling with the help of data flow diagrams.

**Data Flow Diagram**

The flow of data in our proposed system is shown through graphical representation of various levels. The various levels includes level 0 DFD (Context Diagram) and level 1 DFD.

Level 0 DFD is specifically designed to represent the entire system, how the system works.

Another important phase of the system development life cycle is the system design. During this phase, for the interpretation of the findings of the study and analysis, the following designs and diagrams have been developed and thoroughly reviewed.

ER diagram and DFD are used in order to describe the overall features of the online library management system.

### 

### 2.5.1. Context Level diagram:

View notice/study materials

username/password

Student/teacher detail

Student

Logout

Correct

Admin

Upload study material/notice

Access right

Faculty

Return book

Figure 1. 2 Context Level Diagram of online library management system

### 2.5.2. Level 1 DFD:

Level 1 DFD is detail representation of the system.

Check

Username/password

1.0

Login

Return Status of Book

Check Availability

Return Book

Update

Update

Update

Search for Books

Add Book Details

Request for member details

Check Time

Note Member details

Request for book

Conformation

Access Right

Admin

5.0

Member

6.0

Search

Book

Member

Login File

Transaction

2.0

Issue

4.0

Book Entry

3.0

Return

Figure 1. 3 Level 1 DFD

### 2.5.3. ER Diagram

M

1

Admin

Manages

Students

M

1

Views/ Downloads

Manages

Uploads

M

M

Study Materials

M

M

Teachers

Figure 1. 4 ER Diagram of online library management system

In the above ER diagram, Admin can manage many books and many books can be borrowed by many members. Many books that are not in library can be requested by many members and the admin looks for the incoming requests in the library.

# CHAPTER 3

# SYSTEM DESIGN

## 3.1. System Design

System design is the process of defining the architecture, modules, interfaces, and data for a system to satisfy specified requirements

### 3.1.1. Database Schema Design

The schema design can be shown as:

**Admin**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| id | email | pwd | firstName | lastName | mobile | Address | pic |

**Students**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| id | title | author | price | publisher | available |

**Borrow**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| bookId | issueId | issueDate | returnBookId | returnId | returnDate |

**Members**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| id | firstName | lastName | username | pwd | position | mobile | email | pic |

**Requestforbooks**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| requestId | bookName | authorName | Description | requestDate |

## 3.2. Interface Design

**Online Library Management System**

Search

Faculty Login

Student Login

Admin

Register

Home

**Dashboard**

Books in library

Price of all books

Total Publisher

Total Faculty

Total Books

Total Student

Online Library System @ 2075 | Contact us: 9860030246 | 9811275480

Figure 2. 1 Dashboard

### 3.2.1. Process Design

The process design here includes flowchart and system architecture that show how the system functions and how data flow between each component respectively.

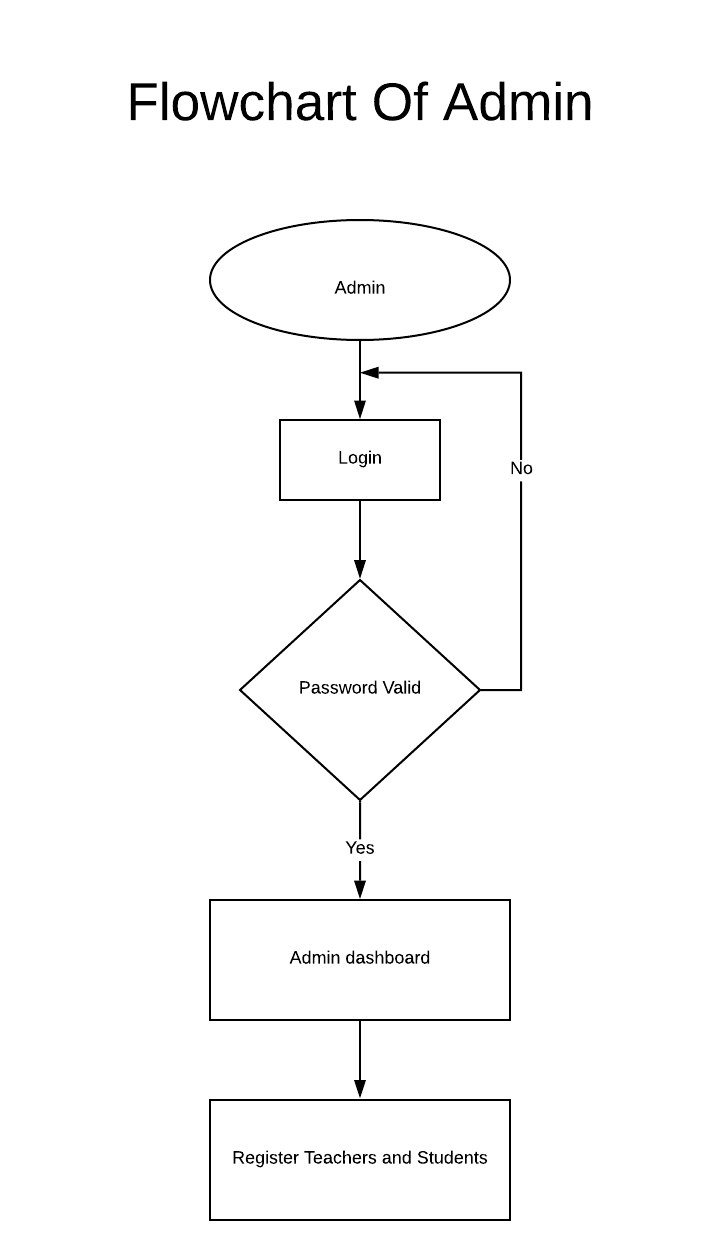


Figure 2. 2 Flow chart of Admin in Student Information System

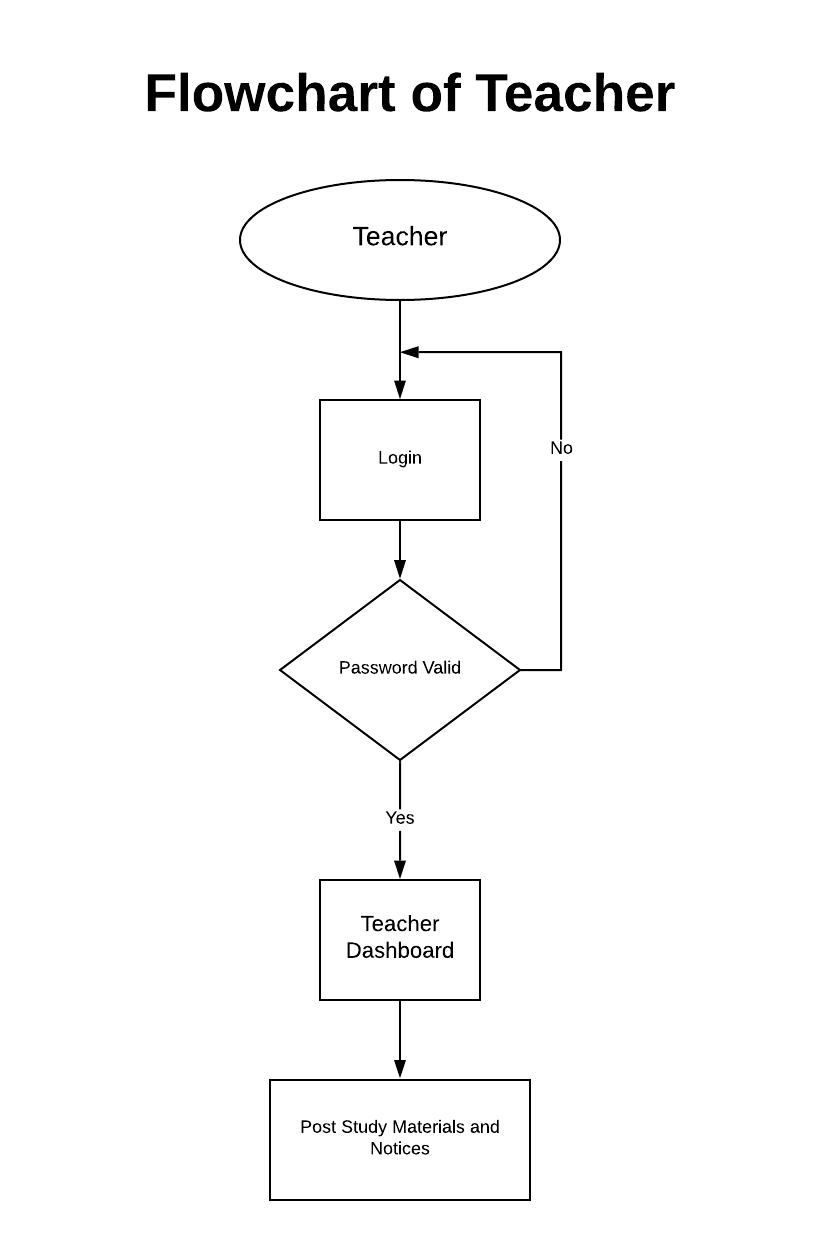


Figure 2. 2 Flow chart of Admin in Student Information System

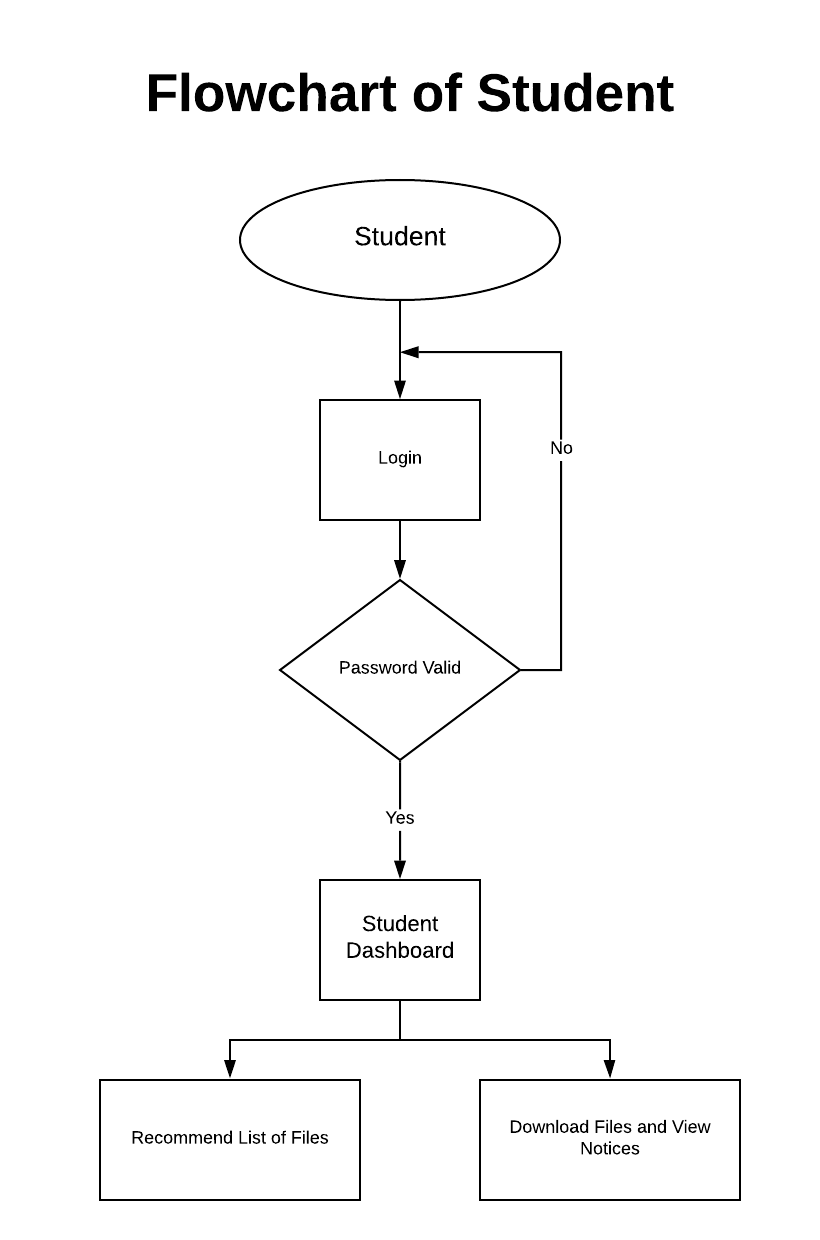


Figure 2. **4** Flow chart of Admin in Student Information System

# CHAPTER 4

# IMPLEMENTATION AND TESTING

## 4.1. Implementation

Various development technologies and tools have been used for the application development. The whole Project is divided in two parts the front end and the back end.

## 4.1.1. Tools used

4.1.1.1. Front End Tools*:* The front end is designed using of HTML, PHP, CSS, Java script.

#### **HTML**

In this project, HTML is used to create form, format text as titles and headings, and arrange graphics on our web page.

#### **Cascading Style Sheets (CSS)**

In this project, CSS is used give a good look and feel to the web application.

#### **PHP**

We use this tool to create a dynamic web page content that suits to server-side web development.

### 4.1.1.5. Back End Tools

The back end is designed using MySQL which is used to design the database.

#### **MYSQL**

Using MySQL we are able to create the database for our project and runs at the back end. We create tables and associate those tables to others with different privileges in our project.

## 4.2. Testing

In order to verify and validate the application some tests were performed. They are shown below:

### 4.2.1. Unit Testing

In this approach each and every classes and methods were tested individually. A set of input was given to the methods that are present in every class that is used in the software. The output from those classes and methods were validated and used in the software. In the V-Model, Unit Test Plans (UTPs) are developed during module design phase. [4] These UTPs are executed to eliminate bugs at code level or unit level. A unit is the smallest entity which can independently exist, e.g. a program module. Unit testing verifies that the smallest entity can function correctly when isolated from the rest of the codes/units. Thus, we keep in all of these things and did the unit testing of our project.

|  |  |  |  |
| --- | --- | --- | --- |
| S. No. | Test Case | Data | Remarks |
|  | Register with empty fields | Firstname:  Lastname:  Username:  Password:  Select:  Mobile:  Email:  Upload photo: | This is a required field. |
|  | Register with no Username | Firstname: Kapil  Lastname: Thapa  Username:  Password: \*\*\*\*\*\*\*\*  Select: Student  Mobile: 9860030246  Email: kapilthapa@gmail.com  Upload photo: img12345.jpeg | This is a required field. |
|  | Register with invalid email | Firstname: Kapil  Lastname: Thapa  Username: kapilthapa  Password: \*\*\*\*\*\*\*\*  Select: Student  Mobile: 9860030246  Email: kapilthapa.gmail.com  Upload photo: img12345.jpeg | You must enter a valid email address. |
|  | Register with password of length less than 5 | Firstname: Kapil  Lastname: Thapa  Username: kapilthapa  Password: \*\*\*  Select: Student  Mobile: 9860030246  Email: kapilthapa.gmail.com  Upload photo: img12345.jpeg | Password must be greater than 5 characters. |
|  | Login with no character | Username:  Password: | This is a required field. |
|  | Offline login | Username: kapilthapa  Password: \*\*\*\*\*\*\*\* | You are not connected to the internet. |
|  | Login with wrong credntials | Username: kapilthapa  Password: \*\*\*\*\*\*\*\* | Invalid user. |
|  | Login with right credntials | Username: kapilthapa  Password: \*\*\*\*\*\*\*\* | Directed towards the dashboard. |

Table 1. 1 System testing table

### 4.2.3. System Testing

System Tests Plans are developed during System Design Phase. Unlike Unit and Integration Test Plans, System Test Plans are composed by client's business team. System Test ensures that expectations from application developed are met. The whole application is tested for its functionality, interdependency and communication. System Testing verifies that functional and non-functional requirements have been met. Load and performance testing, stress testing, regression testing, etc. are subsets of system testing. [5]

When the product is finalized, it will be run on a real world environment and test on its performance. If the performance is satisfactory, it will be applied, else amendment will be made to correct the problems. After the system has been run for daily operation, continued maintenance and administration should be carried out to handle any system errors and security issues. [6] This will entail the pre-test, validity test, pilot and reliability test and the data survey.

# CHAPTER 5

# MAINTENANCE AND SUPPORT

**5.1. Maintenance**

**5.1.1. Adaptive Maintenance**

Here the modules are checked and maintained regularly. According to the need of the user, the modules can be added or modified.

**5.1.2. Corrective Maintenance**

If users find issues and complain about issues, the proper corrective maintenance will be done as soon as possible.

# CHAPTER 6

# CONCLUSION AND RECOMMENDATION

## 5.1. Conclusion

After we have completed the project we are sure the problems in the existing system would overcome. The “ONLINE LIBRARY MANAGEMENT SYSTEM” process made computerized to reduce human errors and to increase the efficiency. The main focus of this project is to lessen human efforts. The Books and members (students/faculty) are given a particular unique Id no. So they can be accessed correctly and without errors. Our main aim of the project is to access the library through the Internet and find, issue and return the available books in the library from anywhere.

The problems, which existed in the earlier system, have been removed to a large extent. And it is expected that this project will go a long way in satisfying user’s requirements. The computerization of the Library Management will not only improves the efficiency but will also reduce human stress thereby indirectly improving human recourses

In conclusion, from proper analysis and assessment of the designed system it can be safely concluded that the system is an efficient, usable and reliable Online Library Management System. It is working properly and adequately meets the minimum expectations that were for it initially. The new system is expected to give benefits to the users and staff in terms of efficiency in the usage of library system.

## 5.2. Recommendation

For further research work to be carried out, we hereby suggest the following:

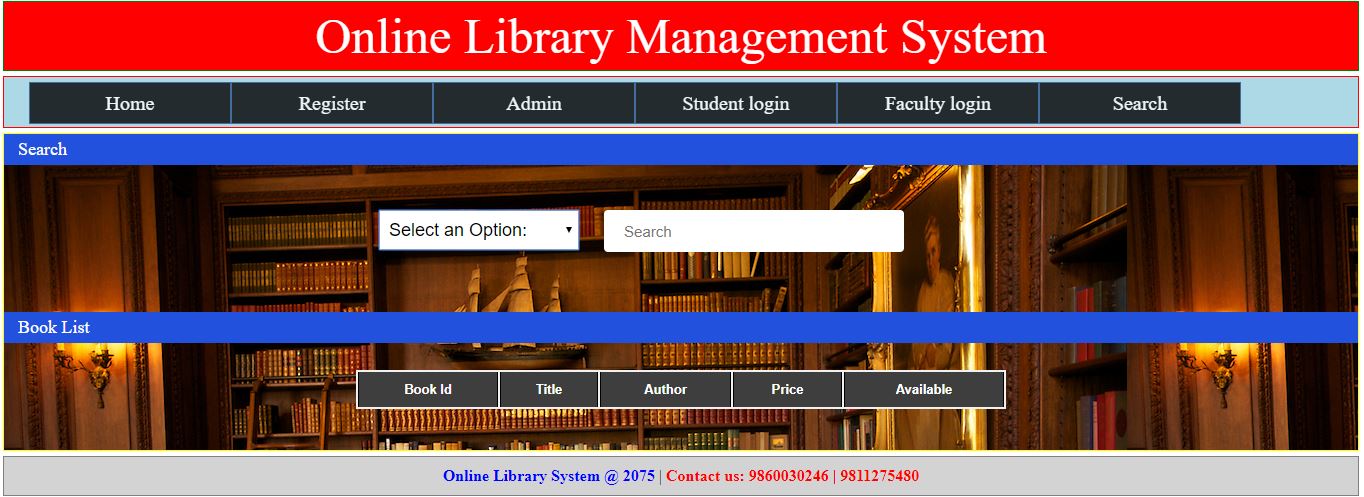
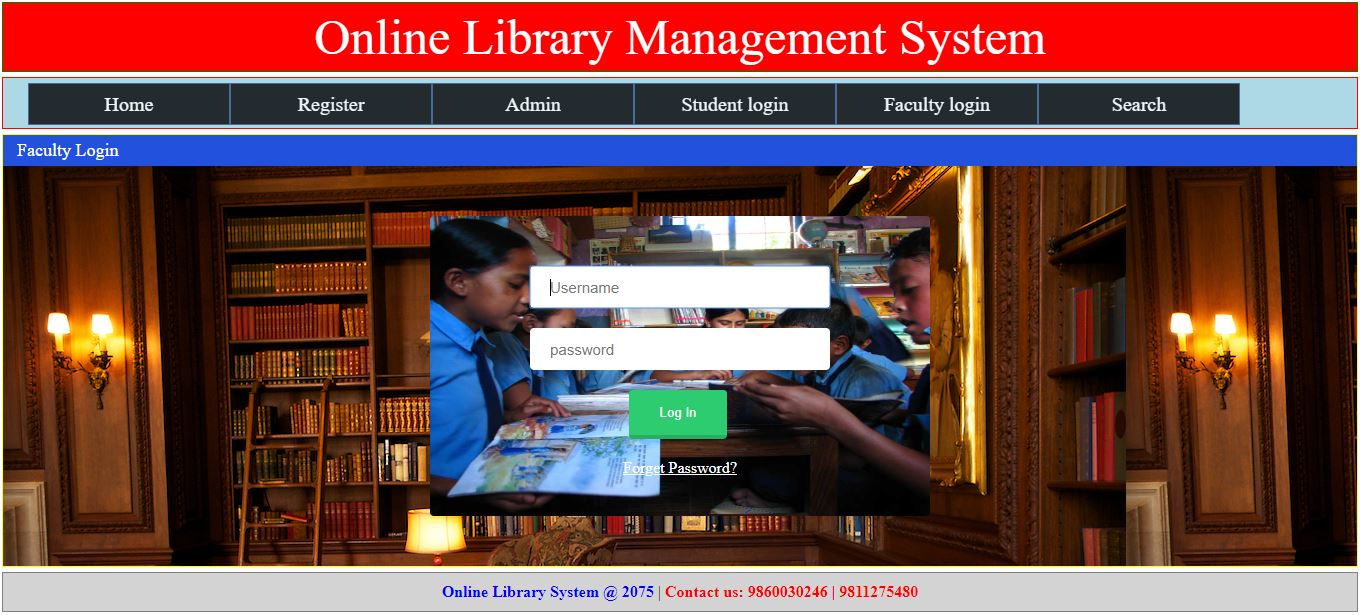
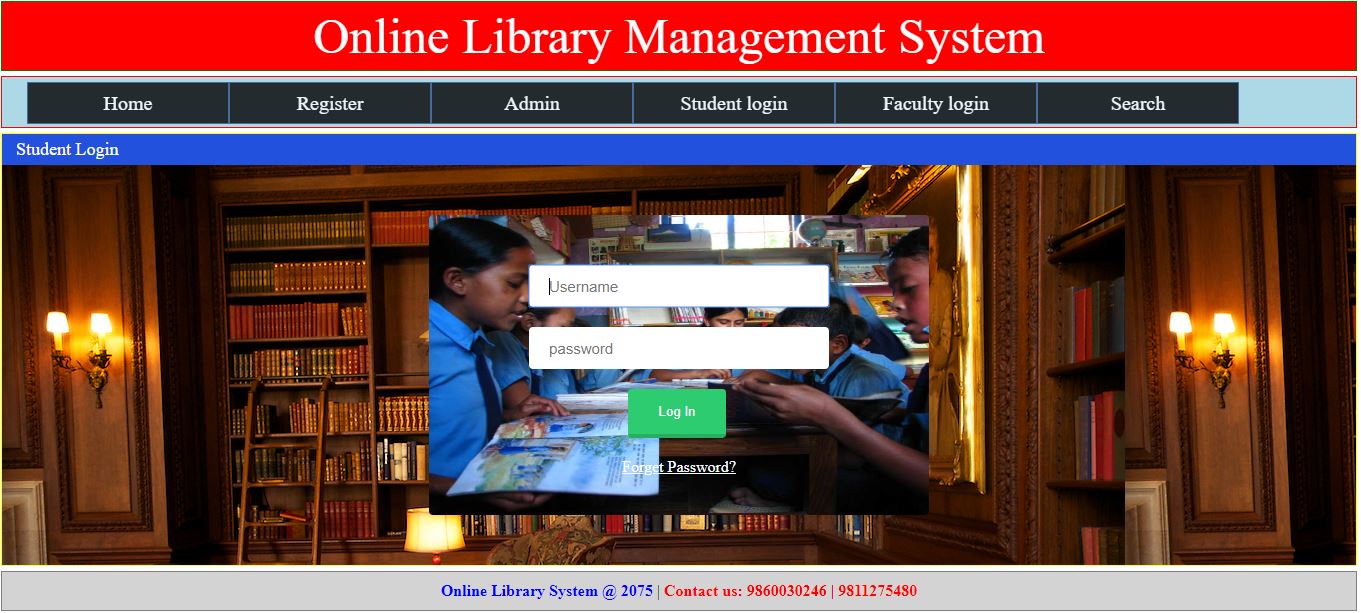
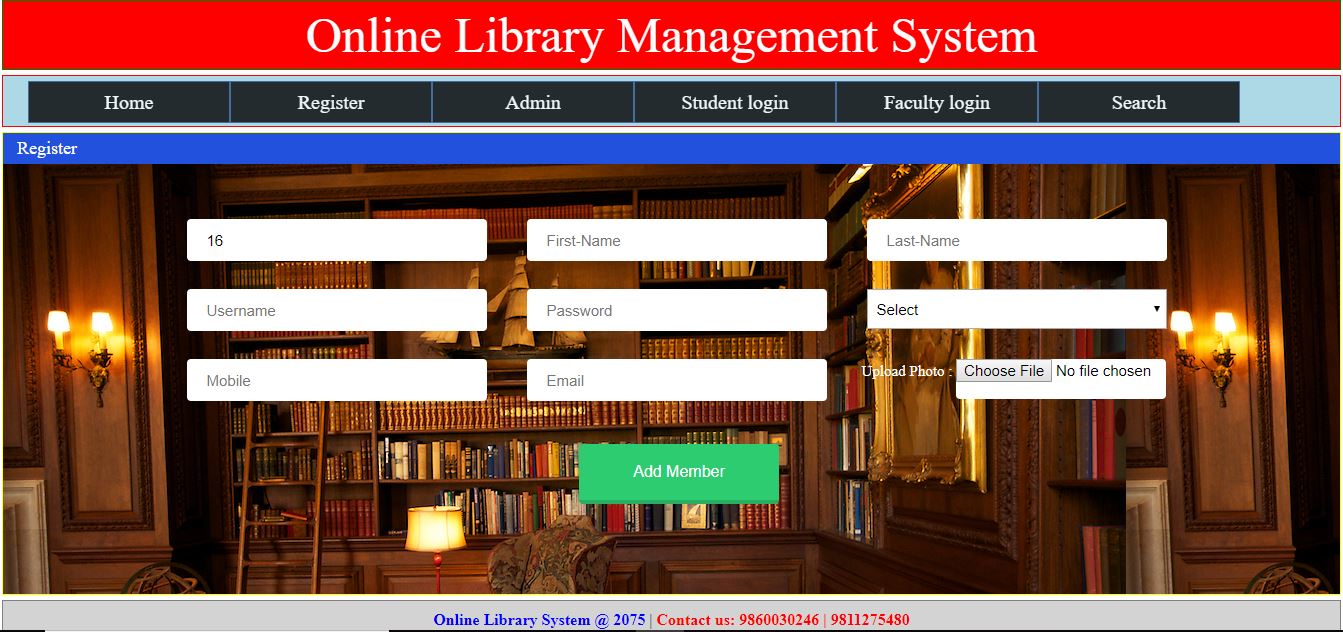
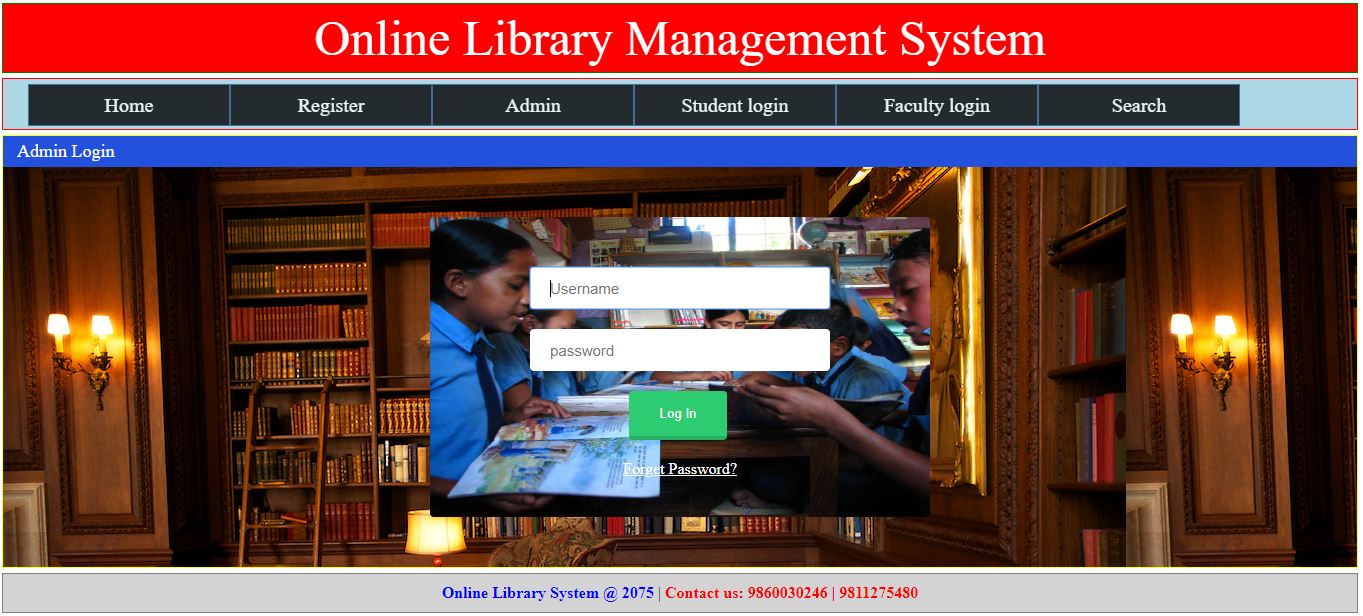
1. Online Library should be developed to work on any platform.
2. Diagrammatic representation as a lecturing aid should be included in a online Library.
3. Online library lecturing should also be extended to other field of study such as chemistry, English Biology Agricultural science and many others.
4. Online library should be developed to support audio, video and a diagrammatic aid to learning.

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|  |  |
| --- | --- |
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| [8] | “Code King,” 2018. [Online]. Available: http://www.codexking.com/project/Free-Library-Management-System. |

# APPENDIX A

# GUI Screenshots



# APPENDIX B

# SOURCE CODE

**Register**

<?php

include("dbConfig.php");

$query = "Select Max(id) From members";

$returnD = mysql\_query($query);

$result = mysql\_fetch\_assoc($returnD);

$maxRows = $result['Max(id)'];

if(empty($maxRows)){

$lastRow = $maxRows = 1;

}else{

$lastRow = $maxRows + 1 ;

}

?>

<!DOCTYPE html>

<html><head>

<title></title>

<link rel="stylesheet" type="text/css" href="../css/title.css">

<link rel="stylesheet" type="text/css" href="../css/register.css">

</head>

<body>

<div class="title">Register</div>

<div class="addMemberForm">

<form action="home.php" method="POST" enctype="multipart/form-data" class="addform">

<div class="inputs">

<input type="text" name="memberId" required autofocus placeholder="ID" value=<?php if(!empty($lastRow)){ echo $lastRow; }?> readonly>

</div>

<div class="inputs">

<input type="text" name="firstName" required autofocus placeholder="First-Name" pattern="[A-Za-z]{3,}" title="First name must contain atleast 3 letters.">

</div>

<div class="inputs">

<input type="text" name="lastName" required autofocus placeholder="Last-Name" pattern="[A-Za-z]{3,}" title="Last name must contain atleast 3 letters.">

</div>

<div class="inputs">

<input type="text" name="username" required autofocus placeholder="Username" pattern="[A-Za-z0-9]{6,}" title="Username must be greater than 5 characters.">

</div>

<div class="inputs">

<input type="password" name="pwd" required autofocus placeholder="Password">

</div>

<div class="inputs">

<div class="addMemberFormList">

<select name="position" required autofocus>

<option value="">Select</option>

<option value="Student">Student</option>

<option value="Faculty">Faculty</option>

</select>

</div>

</div>

<div class="inputs">

<input type="text" name="mobile" required autofocus placeholder="Mobile" pattern="[0-9]{10}">

</div>

<div class="inputs">

<input type="email" name="email" required autofocus placeholder="Email" title="example.example1@gmail.com">

</div>

<div class="inputs">

<label>Upload Photo : </label><input type="file" name="fnm" value="Upload Photo">

</div>

<input type="submit" name="addMemberBtn" value="Add Member">

</form>

</div>

</body>

</html>

**adminLogin**

<?php

?>

<html> <head><title></title>

<link rel="stylesheet" type="text/css" href="../css/inputs.css">

<link rel="stylesheet" type="text/css" href="../css/form.css">

<link rel="stylesheet" type="text/css" href="../css/title.css">

</head>

<body>

<div class="title">Admin Login</div>

<div class="loginContainer">

<form class="loginForm">

<div class="formInput">

<input type="text" name="username" required autofocus placeholder="Username" >

</div>

<div class="formInput">

<input type="password" name="pwd" required autofocus placeholder="password" >

</div>

<input type="submit" name="adminLoginBtn" value="Log In" class="btnLogin"> <br >

<a class="forgetPwd" href="home.php?activity=forgetpwd&r=admin">Forget Password?</a>

</form>

</div>

</body>

</html>