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I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked.

I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.

Acknowledgement

This interim report would not have completed successfully without encouragement and guidance of my supervisors Mr. Shubhankar Sharma and Mr. Prithivi Maharjan. I always feel encouraged and motivated after attending meeting with them. I am grateful for their guidance, support, supervision and encouragement. I would like to extend my sincere thanks to both of supervisors for their tremendous help and support. I would also like to thank my friends and the participants in my survey, who have voluntarily shared their valuable time for goodwill of this report.

Abstract

This report is like progress report of final year project **Institute Management System** which is a web-based application. This application is helpful for educational institute to maintain record of their students, send SMS to students regarding class, overview flow of students in institute via various reports. This application also includes Point of Sales system so that institute can sell study related books.

This report consists details regarding progress of final year report in the means of five chapters such as Introduction, Background/literature review, Development to Date, Analysis of Progress and Future Work.

Introduction includes short information of final year project i.e. **Institute Management System** whereas background/literature review holds detailed information about resources requirements , methodology used in developing project along with analysis and comparison of similar projects. Detailed information of development of project till date, progress analysis by comparing with Gantt chart and work that is to be done further are provided respectively in development to date, analysis of progress and future work section.

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Institute Management System

1. Introduction

This system is a web application for educational institute specially for those institute which provides education to various types of students. As being a developing country, education system is also in the phase of development so that most of works are manually done in the field of education. There are various sources that provide education such as school, college, institute. This project is focused on educational institute that provides education to people who get enrolled to compete in exams of government jobs/ public service.

1.1. Problem statement

In educational institute, there are many students and their records are almost manual in most of education system. Educational institute have problem due to:

1. Manual record of students
2. Depend on paper / register/ brain to remember type of student
3. No proper track of students
4. Difficulty in sending SMS to students
5. Manual billing of fee payment

1.1. Project as a solution

This project will help people who will have educational institute by working as solution:

1. Digital record of students
2. Allocates students at the time of admission
3. Sending SMS to students to give information about class
4. Digital billing of fees
5. Generate manual/month/annual report
6. Digital billing of books related to study materials by using barcode.

1.2. Aim and Objectives

1.2.1. Aim

The main aim of project to make work digitalize more than manual in the field of educational institute.

1.2.2. Objectives

Some objectives of project are:

- To learn about scope of digitalization
- To manage manual works of institute.
- To learn about API programming.
- To make work easier for people involving in educational institute
- To get knowledge on programming concept

1.3. Report Structure

This part of report shows structure of remaining parts.

- a) Background/ literature view
 - i) Client Description and Requirements.
 - ii) Resource Requirements
 - iii) Methodology Used
 - iv) Similar Projects
 - v) Analysis of similar projects with my projects
- b) Development to date
 - i) System Architecture
 - ii) Use case diagram
 - iii) High level use case descriptions
 - iv) Wireframes
 - v) ER diagram
 - vi) Web application development
- c) Analysis of progress
- d) Future work

- e) References
- f) Appendix A
- g) Appendix B
- h) Appendix C

2. Background/literature view

2.1. Client Description and Requirements

2.1.1. Client's Name

The Success Institute

2.1.2. Description

This institute is newly, fresh startup which gives tuition classes for courses such as staff nurse, A.N.M, AHW, *kharidar*, *nayab subba* etc. Our client “The Success Institute” is located in Nepalgunj, Banke. Founders of this institute are young and energetic so they were eager to listen about project IMS and assured to give essential requirements which can be helpful in making a good project.

2.1.3. Requirements

Requirements and suggestions provided by client are given below:

- i) System should be secure enough so that no outsider can interfere or stalk on confidential data of institute.
- ii) System must have different login system for both staff and owner so that staff couldn't misuse system.
- iii) There is difficulty in sending message to every student so that system should have feature of sending SMS to student at once.
- iv) System should be able to show/ track reports monthly/annually.
- v) There should be feature of viewing and printing reports of fee.

Please refer [Appendix C](#) for Survey Findings

2.2. Resource requirements

2.2.1. Software Requirements

- PHP/ Laravel Framework
- MySQL for Database
- Html/CSS/JS
- Code editor i.e. Visual Studio / PHP storm
- API for SMS integration.
- Bar code reader app if scanner is not available

2.2.2. Hardware Requirements

- PC with windows 10
- Web cam/ phone with camera/ bar code scanner for scanning bar code of books.

2.3. Methodology

2.3.1. Considered Methodology

Waterfall Methodology

Waterfall methodology is also one of the methodologies which is commonly used at the time of software development. It is a sequential development model. Different phases of waterfall model life cycle are:

- i) Analysis
- ii) Design
- iii) Development
- iv) Testing
- v) Implementing
- vi) Maintenance

In this methodology, all phases are carried out in a linear sequence i.e. to go to next phase previous phase must be complete. All phases are done without overlapping to one another.

Each step is frozen before initialization of next step. Requirement phases should be frozen before starting design and for coding phase design phase should be completed.

This method was not selected because of its linear sequence. As this project is web application and as design part and other logical part are always iterative model need to be flexible and support changes in any part of phases in order to catch up with modern days. In this project, requirement can be changed as per guidance and requirement of client and this changing in requirement is not supported by waterfall methodology. (S.Balaji & Murugaiyan, 2012)

2.3.2. Selected Methodology

Rational Unified Process

There are many methodologies for software development. Some of them are; waterfall, agile, scrum, spiral, joint application, rational unified process etc. We are using Rational Unified Process (RUP) for development of this project.

Rational Unified Process (RUP) is one of the techniques used for software development. RUP provides a disciplined approach to assigning tasks and responsibility within a development organization. Its main goal is to ensure the production of high- quality software that meet the need of end-users within a predictable schedule and budget. (Kruchten, 2004) There are four phases of RUP methodology. They are:

- **Inception:**

In this phase, requirement analysis is done. This is the phase which describes schedule, estimation of overall system and risk assessment of project. It also describes scope and goals of the system along with identifying interaction with systems (t4tutorials, 2020).

- **Elaboration:**

Architecture of system is evaluated in this phase of rational unified process. This phase is considered important as it includes analysis of problem domain. Use case diagrams are made in this phase (Christensson, 2006).

- **Construction:**

In this phase, major coding is done along with extensive testing. In big projects, construction phase can be repeated or there may be several constructions phases in order to divide use cases into segments so that it will be smaller and manageable. At the end of this stage, the project team should have user manuals and a beta version of the system ready to be evaluated. (ANWAR, 2014)

- Transition:

Transition is the last phase of rational unified process in which analysis of system along with its maintenance is done. This is the phase where product is released. (Scott, 2001) .

2.4. Similar Projects

2.4.1. Project 1 : Web Based Student Information Management System

Authors: S.R.Bharamagoudar , Geeta R.B. , S.G.Totad

This Student Information Management System helps in maintenance of student information. This system can be used by educational institutes to maintain records of students. Student information system deals with all kind of student details, academic related reports, college details, course details, curriculum, batch details, placement details and other resource related details too. User interface of this system is designed and implemented to replace current paper records. The main purpose of this system is to maintain information of students up to date so that it can help in improvement of efficiency of institutes/colleges. (S.R.Bharamagoudar, et al., 2013)



Figure 1 Web Based Student Information Management system

2.4.2. Project 2: Student Record Management System

Author : Fabian Ros

This Student Record Management System is PHP based system which is made in order to maintain records of students. This project run on virtual serve i.e. XAMPP. This system allows user to add student records such as name, contact number, photo etc. In this system, admin plays vital role by updating, removing students from system. (Ros, 2019)

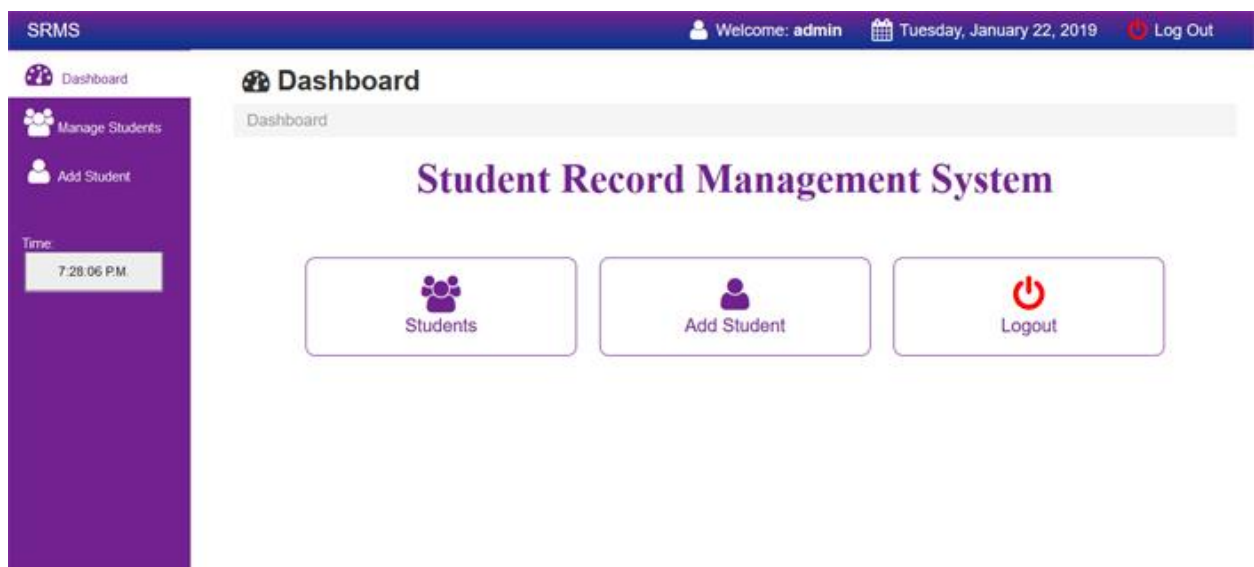


Figure 2 Student Record Management System

2.4.3. Project 3: Student Management System

Authors: Sangamesh K, Akash Samanekar, Ningappa T Pujar

This Student Management System is a web-based system which will help to manage everyday tasks of institution. The main aim of this project is to manage records of students, attendance , accounts, admissions etc. and keep track of information digitally as many works are carried out of paper based in most of academic institution. (K, et al., 2018)

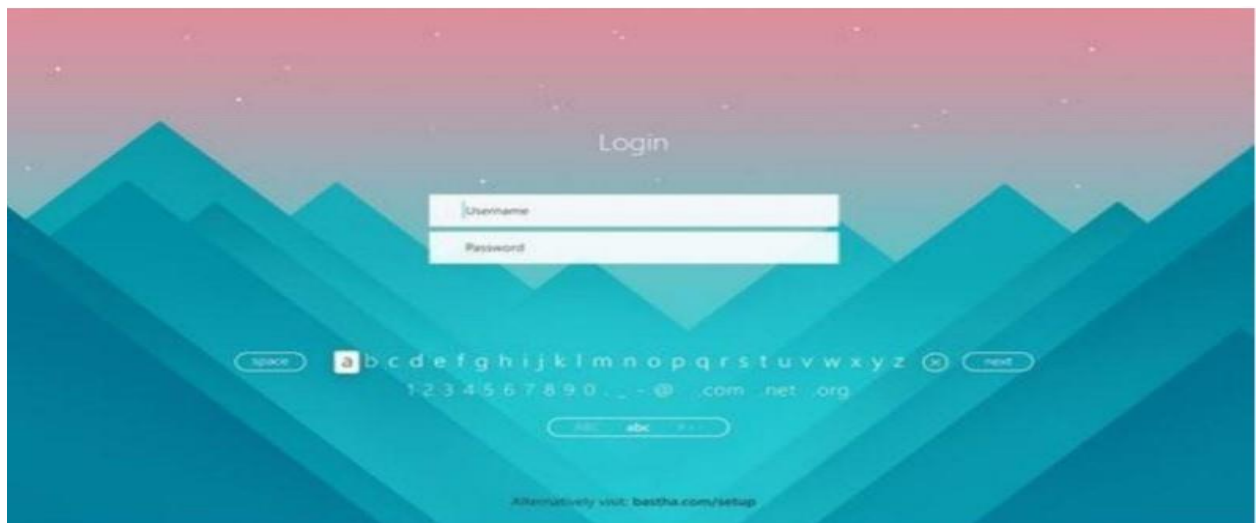


Figure 3 Student Management System

2.5. Analysis of similar projects with my projects

Project Comparison Table

S.N	Features	Project 1	Project 2	Project 3	This project
1	Technology Used	HTML, CSS, JS, PHP, SQL	PHP, CSS, JavaScript, and Bootstrap.	Java frameworks such as Hibernate, Spring-Data-JPA, Angular	HTML, CSS, JS, PHP/ Laravel Framework, MySQL
2	Fee Management	✓	✗	✗	✓
3	Student Type/ Course Type Management	✓	✗	✓	✓
4	Easy to use	✗	✓	✗	✓
5	SMS sending	✗	✗	✓	✓

Table 1 Project Comparison Table

3. Development to date

3.1. System architecture

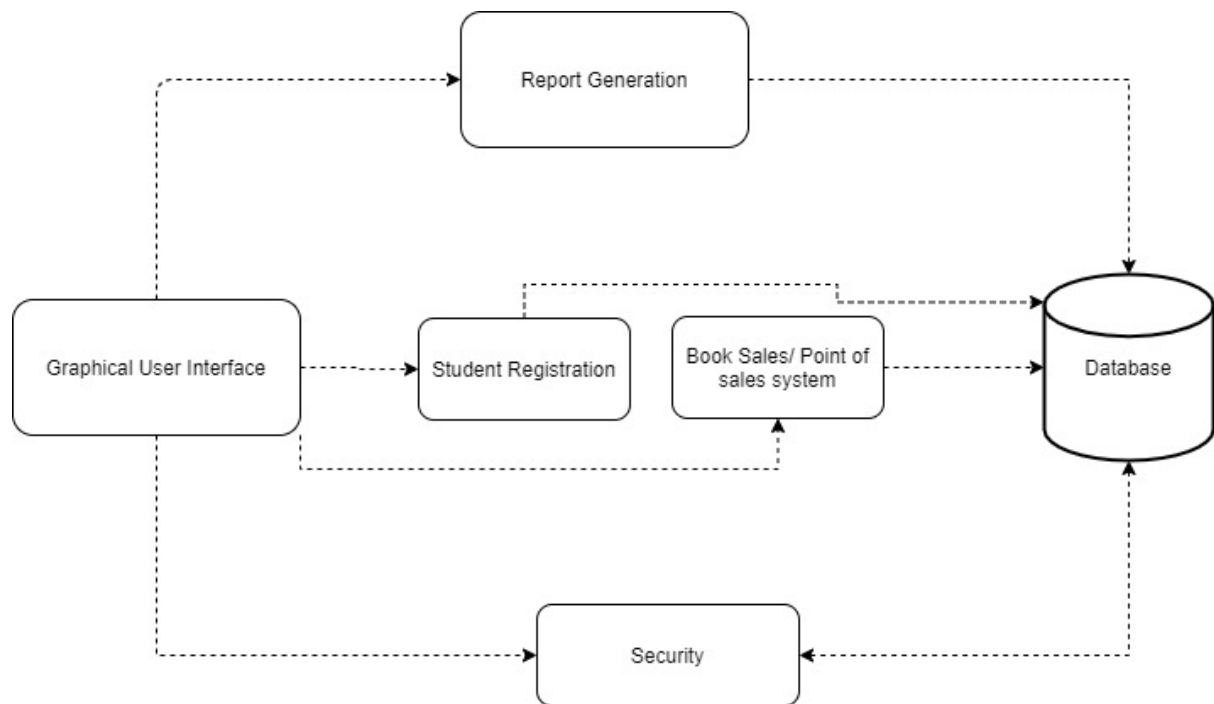


Figure 4 System Architecture

3.2. Use case diagram

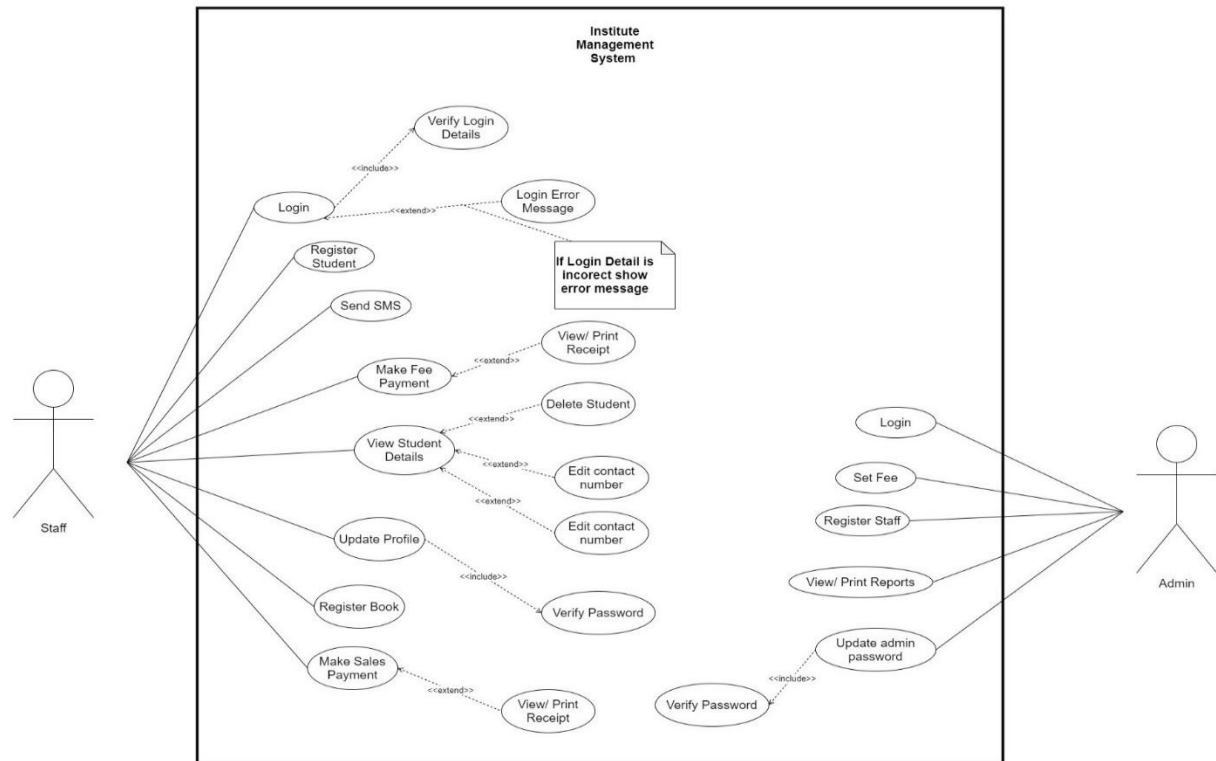


Figure 5 Use case diagram of Institute Management System

3.3. High level use case descriptions

High level use case description are given below:

Use Case	Login
Actor	Staff
Description	Staff logs in to application to access other functions.

Table 2 High level use case description of login

Use Case	Register student
Actor	Staff
Description	Staff register student in application

Table 3 High level Use case description of register student

Use Case	Send SMS
Actor	Staff
Description	Staff send SMS to student choosing from database

Table 4 High level Use case description of send SMS

Use Case	Fee Payment
Actor	Staff
Description	Staff makes payment of fee and give receipt to student

Table 5 High level Use case description of fee payment

Use Case	View Student Details
Actor	Staff
Description	Staff can view student details along with editing it.

Table 6 High level Use case description of view student details

Use Case	Update Profile
Actor	Staff
Description	Staff can update his/her profile

Table 7 High level Use case description of update profile

Use Case	Register Book
Actor	Staff
Description	Staff register book that it new to institute .

Table 8High level Use case description of register book

Use Case	Make Sales Payment
Actor	Staff
Description	Staff make payment of book that he/she sells.

Table 9 High level Use case description of make sales payment

Use Case	Login
Actor	Admin
Description	Admin logs in to application to access other functions.

Table 10 High level Use case description of login admin

Use Case	Set fee
Actor	Admin
Description	Admin can set fees of various fields that are taught in institute.

Table 11 High level Use case description of set fee

Use Case	Register Staff
Actor	Admin
Description	Admin registers staff

Table 12 High level Use case description of register staff

Use Case	View/ print Reports
Actor	Admin
Description	Admin can print overall reports.

Table 13 High level Use case description of view/print report

Use Case	Update Admin Password
Actor	Admin
Description	Admin update his/her password.

Table 14 High level Use case description of update admin password

3.4. Wireframes

The wireframe depicts a web browser window titled "Institute Management System". The browser's address bar is empty, and the main content area features a central login form. The form is titled "Sign in To IMS" and "Admin Panel". It includes two input fields: "Email:" with an envelope icon and "Password:" with a lock icon. A "Sign In" button is positioned below the password field. A "LOGO" placeholder is located in the top-left corner of the form area. The browser window includes standard navigation icons (back, forward, stop, home) and a search icon in the top-left corner of the address bar, and a double-slash icon in the bottom-right corner of the main content area.

Figure 6 Admin Panel Login Page

The image shows a web browser window titled "Institute Management System". The browser's address bar is empty. The main content area displays a login form titled "Sign in To IMS". The form contains two input fields: "Email:" with an envelope icon and "Password:" with a lock icon. Below these fields is a "Sign In" button. The browser window has a standard toolbar with back, forward, and home buttons, and a search bar.

Institute Management System

Sign in To IMS

Email:

Password:

Sign In

Figure 7 Login for Staff Page

Institute Management System

IMS

Name

Sunday, 20 september

10:30 AM

Register Student

Point Of Sales

Send SMS

Student Details

Settings

Enter/Scan barcode

0912097838723

Add Book

Select Item

Edit Quantity

Sn	Particular	Publication	Author/s	Qty	Rate	Amount
1	Kharidar 2nd paper	XXXX	XXXX	1	250	250
2	Nayab subba 1st paper	XXXX	XXXX	2	300	600

Gross Amount Rs. xxxx

Discount Rs.

XXXX

Net Amount Rs. xxxx

Customer Name

XXXXXXXXXXXXXXXXXXXX

Tender :

XXXX

Change : Rs XXXX

View Reciept

Print Reciept

New Transaction

Figure 8 Point of sales / landing page of web application

Institute Management System

LOGO

IMS

Name

Sunday, 20 september

10:30 AM

Registration

Student Name

Gender

Male

Female

Other

Address

Course

Kharidar

Nayab S

.....

Primary Number

Secondary Number

Fee Payment

Total Fee

Rs. XXXX

Fee Paid

Rs. XXXX

Fee Due

Rs. XXXX

Bill No.

For Manual Payment

*

View Reciept

Print Reciept

Register Student

Figure 9 Student Registration page

18030043

19

Institute Management System

LOGO

IMS

Name

Sunday, 20 september

10:30 AM

Register Student

Point Of Sales

Send SMS

Student Details

Settings

Send SMS

From : Institute Name

To :

Message :

Send SMS

Student Type :

Kharidar

Sort By :

Date Enrolled

View

This area contains the Student name and primary number according to above dropbox. User can select numbers and add them to above "To " Field for sending SMS.

Add

Figure 10 Send SMS page

Institute Management System

LOGO

IMS

Name

Sunday, 20 september

10:30 AM

Register Student

Point Of Sales

Send SMS

Student Details

Settings

Student Details

Student Type :

Kharidar

Nayab S

Sort By :

Date Enrolled

Name

View

This field contains students details such as name, phone number, address, photo, fee paid, fee

Figure 11 Student Details Page

Institute Management System

LOGO

IMS

Name

Sunday, 20 september

10:30 AM

Register Student

Point Of Sales

Send SMS

Student Details

Settings

Name: xxxx xxxx

Email:

Save Changes

Update Password

Old Password

New Password

Confirm New Password

Update Password

Register Book

Enter/Scan barcode

Price

Name of Book

Author

Publication

Register Book

Figure 12 Account Setting / Staff Setting page

Institute Management System

LOGO

IMS Admin Panel

Sunday, 20 september

10:30 AM

Settings

Reports

Settings

Fee determination

Course:

Set Fee:

Staff

Name of User:

Email:

Create Password:

Confirm Password:

Update Admin Password

Old Password:

New Password:

Confirm New Password:

This page shows staff details which allows admin to view all staffs along with changing their details. Admin can change the password if staff asks to change when they forget password

Figure 13 Admin Setting Page

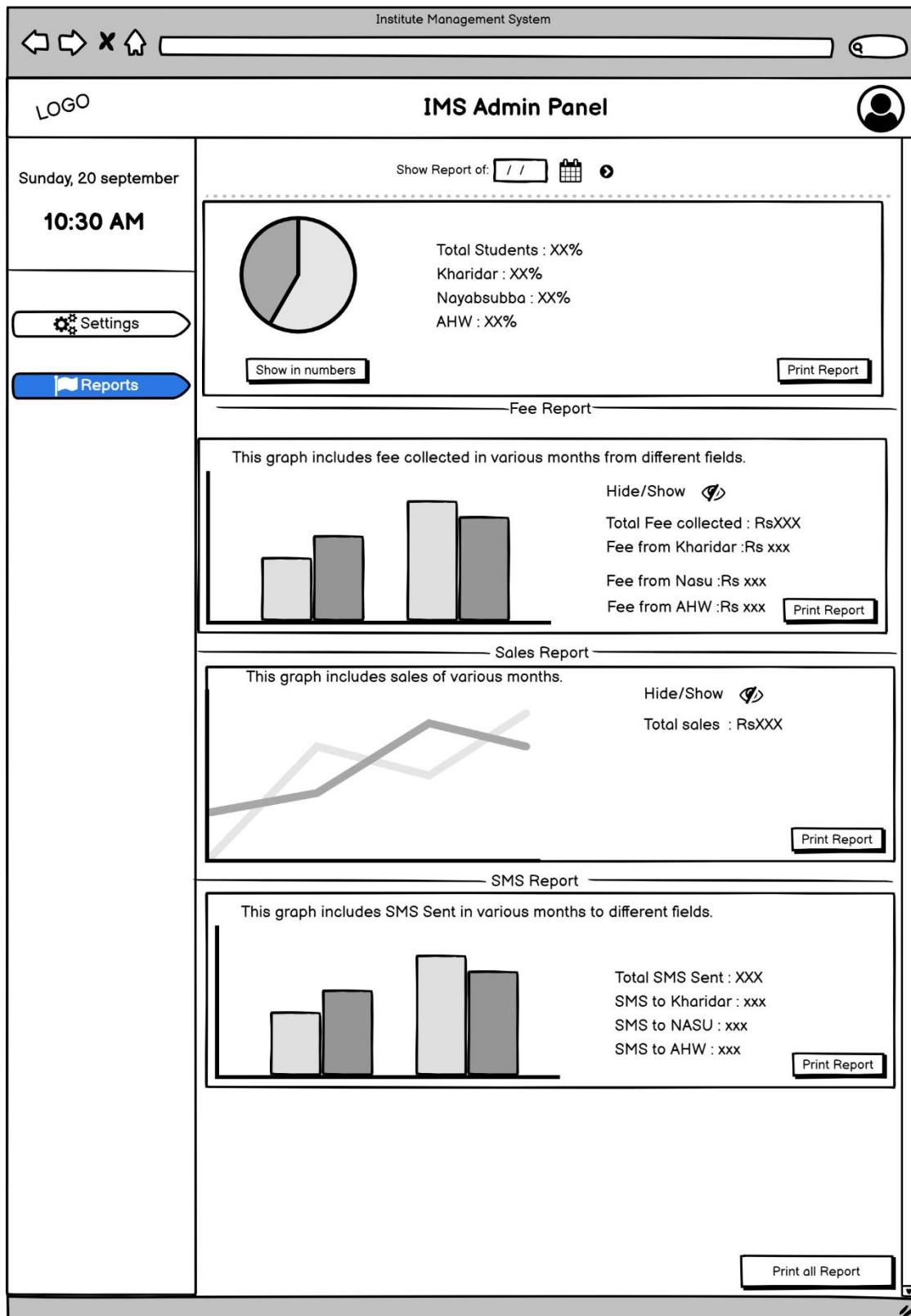


Figure 14 Report Page

3.5. ER diagram

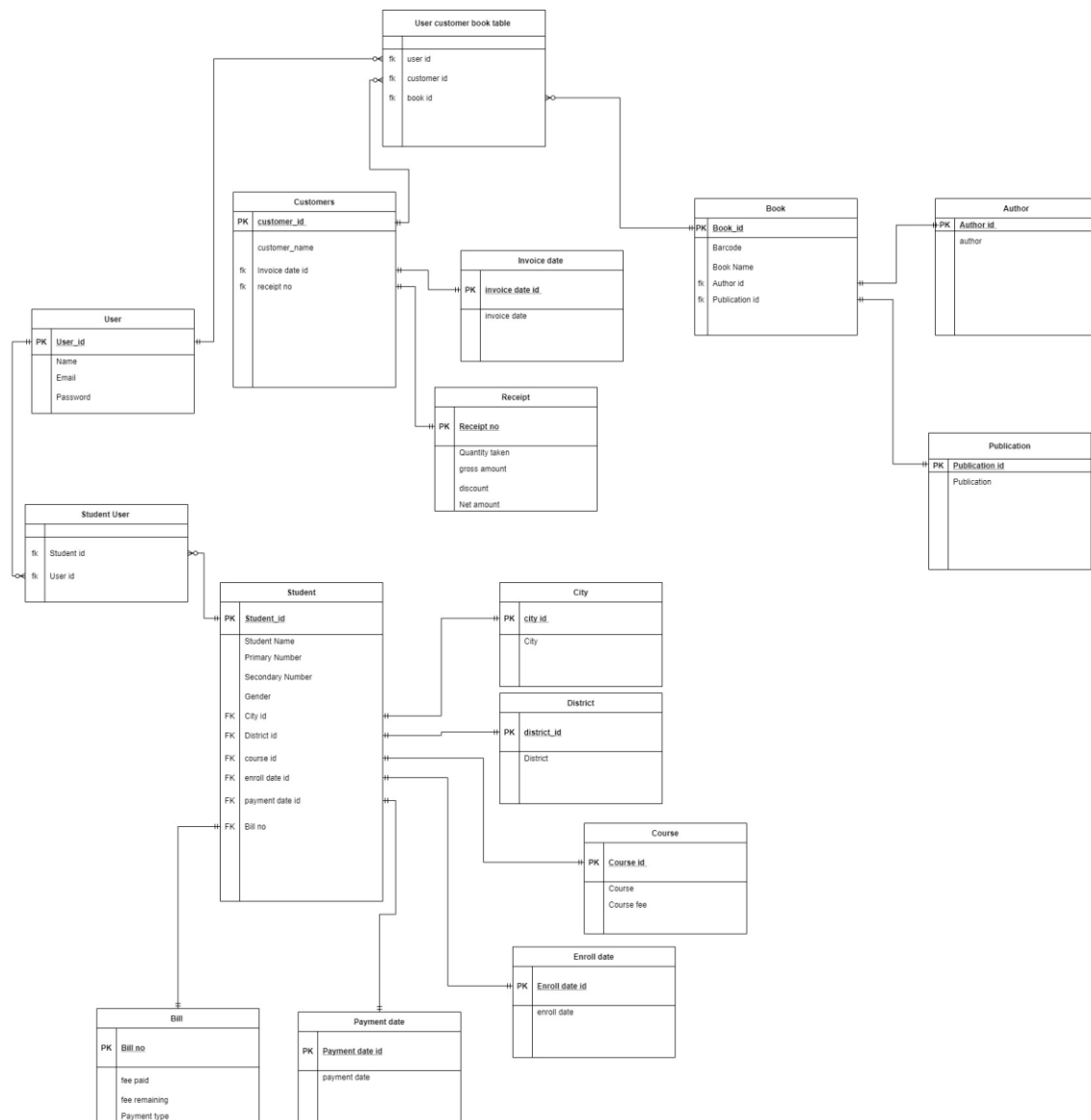


Figure 15 ER Diagram

3.6. Web application development

3.6.1. Staff Login Page

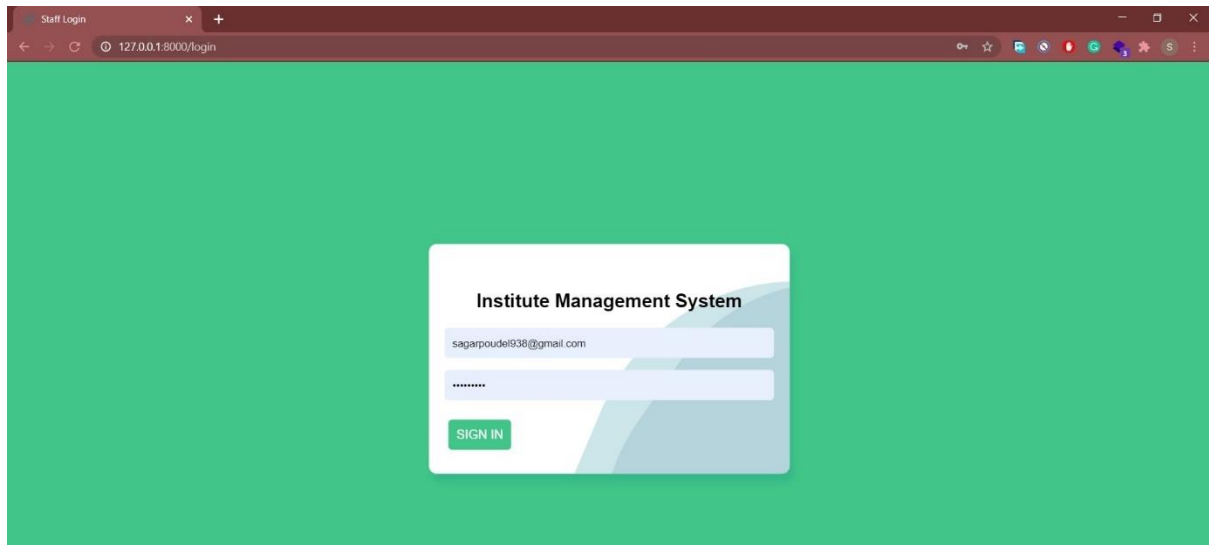


Figure 16 Staff Login Page

3.6.2. Admin Login Page

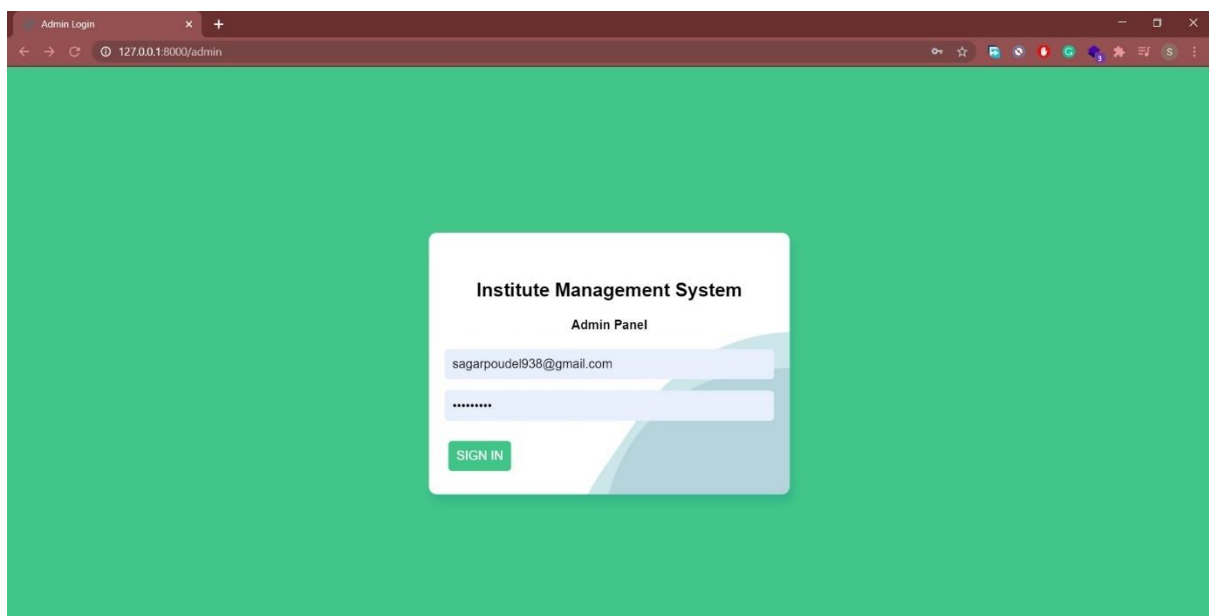


Figure 17 Admin Login Page

Please refer [Appendix A](#) for Source Code.

3.7. Gantt Chart

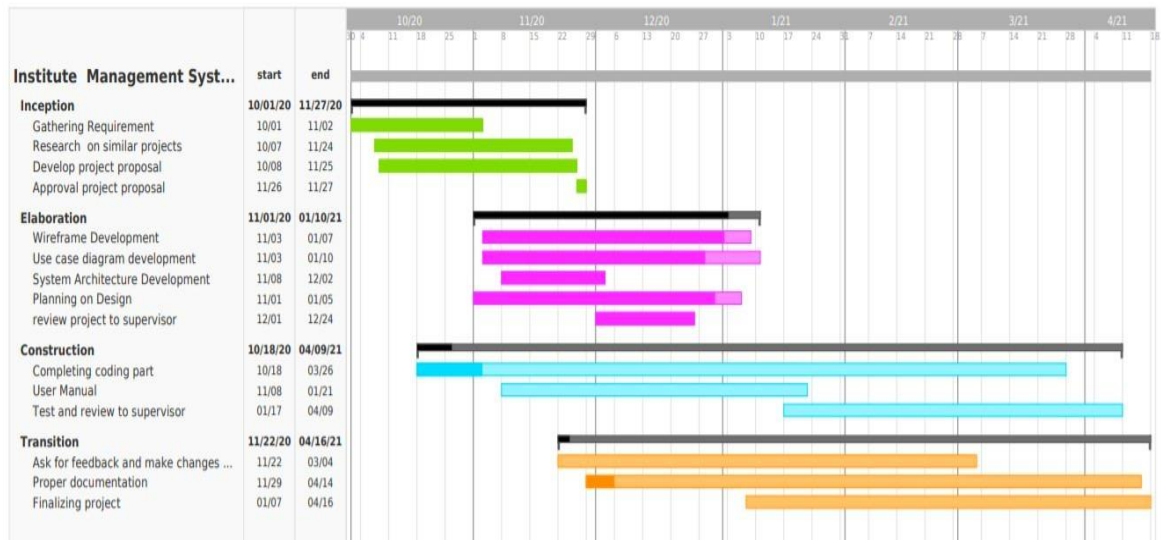


Figure 18 Gantt Chart

Tabular form of Gantt chart is provided below:

Activities	Start	End	Days
Inception	10/1/2020	11/27/2020	
Gathering Requirement	1-Oct	2-Nov	32
Research on Similar Projects	7-Oct	24-Nov	48
Develop Project Proposal	8-Oct	25-Nov	48
Approval Project Proposal	26-Nov	27-Nov	1
Elaboration	11/1/2020	1/10/2021	
Wireframe Development	3-Nov	7-Jan	65
Use case Diagram Development	3-Nov	10-Jan	68
System Architecture Development	8-Nov	2-Dec	24
Planning on Design	1-Nov	05-Jan	65
Review Project To supervisor	1-Dec	24-Dec	23
Construction	10/18/2020	4/9/2021	
Completing Coding Part	18-Oct	26-Mar	159
User Manual	8-Nov	21-Jan	74
Test And Review to Supervisor	17-Jan	9-Apr	82
Transition	11/22/2020	4/16/2021	
Ask for Feedback and Make changes	22-Nov	4-Mar	102
Proper Documentation	29-Nov	14-Apr	136
Finalizing Project	7-Jan	16-Apr	99

Table 15 Gantt chart

4. Analysis of progress

4.1. Progress table

S.N.	Tasks	Status	Progress(%)
1	Gathering Requirement	Completed	100
2	Research on Similar Projects	Completed	100
3	Develop Project Proposal	Completed	100
4	Approval Project Proposal	Completed	100
5	Wireframe Development	Almost completed	90
6	Use case Diagram Development	Almost completed	80
7	System Architecture Development	Completed	100
8	Planning on Design	Almost completed	90
9	Review Project To supervisor	Completed	100
10	Completing Coding Part	Initialized	10
11	User Manual	Incomplete	0
12	Test and Review to Supervisor	Incomplete	0
13	Ask for Feedback and Make changes	Incomplete	0
14	Proper Documentation	Initialized	5
15	Finalizing Project	Incomplete	0

Table 16 Progress Table

Please refer to [Appendix B](#) for Milestone Review

4.2. Progress Review and Action Plan

As in above progress table, requirement gathering, research on similar projects, proposal development, system architecture development is completed in time as planned in Gantt chart submitted in project proposal. Design part such as wireframe development, use case development, planning on design are delayed but almost completed. Things that didn't go as per plan is coding part. Coding part is not completed as it should be because of spending little more time in wireframe and use case development.

From now onwards, tasks will be carried out according to new Gantt chart which is submitted in interim report. Coding part will be given more priority as other tasks are going according to plan.

5. Future work

This part of report includes remaining tasks that are to be completed in future time. As per Gantt chart following things are future tasks:

- i) Finalizing Wireframe Development
- ii) Completing Use case development and design planning
- iii) Preparation of User Manual
- iv) Working on barcode system
- v) Working on SMS API integration
- vi) Completing Coding part
- vii) Finalizing documentation
- viii) Submission of Final year Project Report

6. References

ANWAR, A., 2014. A Review of RUP (Rational Unified Process). *International Journal of Software Engineering (IJSE)*, 5(2), p. 13.

Christensson, P., 2006. *techterms*. [Online] Available at: <https://techterms.com/definition/rup> [Accessed 14 october 2020].

Kruchten, P., 2004. *The Rational Unified Process: An Introduction*. 3rd ed. s.l.:Addison-Wesley Professional.

K, S., Samanekar, A. & Pujar, N. T., 2018. Student Management System. *INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY*, VI(15), pp. 1-4.

Ros, F., 2019. *code-projects..* [Online] Available at: <https://code-projects.org/student-record-management-system-in-php-with-source-code/> [Accessed 23 12 2020].

S.Balaji & Murugaiyan, D., 2012. WATEERFALLVs V-MODEL Vs AGILE: A COMPARATIVE STUDY ON SDLC. *International Journal of Information Technology and Business Management*, II(1), pp. 26-30.

S.R.Bharamagoudar, R.B., G. & S.G.Totad, 2013. Web Based Student Information Management. *International Journal of Advanced Research in Computer and Communication Engineering*, II(6), pp. 2342-2348.

Scott, K., 2001. *informit*. [Online] Available at: <https://www.informit.com/articles/article.aspx?p=24671&seqNum=7> [Accessed 14 october 2020].

t4tutorials, 2020. *t4tutorials*. [Online] Available at: https://t4tutorials.com/rational-unified-process-rup-phases-of-rup-inception-elaboration-construction-transition-software-engineering/#What_is_the_elaboration_phase [Accessed 14 october 2020].

7. Appendix A

StaffLogin.blade.php

```
resources > views > StaffLogin.blade.php > html > body > form.login
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Staff Login</title>
5      <link rel="stylesheet" href="/css/login.css">
6
7  </head>
8  <body>
9      <form class="login">
10         <center><h2>Institute Management System</h2></center>
11
12         <input type="text" name="email" placeholder="Email">
13
14         |
15         <input type="password" name="password" placeholder="Password">
16         <button type="submit">Sign In</button>
17     </form>
18 </body>
19 </html>
```

Figure 19 Staff Login Source Code

AdminLogin.blade.php

```
resources > views > AdminLogin.blade.php > html > body > form.login
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Admin Login</title>
5      <link rel="stylesheet" href="/css/login.css">
6
7  </head>
8  <body>
9      <form class="login">
10         <center><h2>Institute Management System</h2></center>
11         <center><h4>Admin Panel</h4></center>
12
13         | <input type="text" name="email" placeholder="Email">
14
15
16         <input type="password" name="password" placeholder="Password">
17         <button type="submit">Sign In</button>
18     </form>
19 </body>
20 </html>
```

Figure 20 Admin Login Source Code

Login.scss

```
resources > sass > login.scss > .login
1  @import "bourbon";
2
3  // Colors
4  $greenSeaweed: rgba(2, 128, 144, 1);
5  $blueQueen:   rgba(69, 105, 144, 1);
6  $redFire:     rgb(66, 197, 136);
7
8  // Fonts
9  $fontAsap: 'Asap', sans-serif;
10
11 body {
12   background-color: $redFire;
13   font-family: $fontAsap;
14 }
15
16 .login {
17   overflow: hidden;
18   background-color: white;
19   padding: 40px 30px 30px 30px;
20
21   

Attaches one or more drop-shadows to the box. The property is a comma-separated list of shadows, each specified by 2-4 length values, an optional color, and an optional 'inset' keyword. Omitted lengths are 0; omitted colors are a user agent chosen color.


22
23   

Syntax: none | <shadow>#


24
25   

MDN Reference


26   box-shadow: 5px 10px 10px rgba($greenSeaweed, 0.2);
27
28
29   &::before, &::after {
30     content: '';
31     position: absolute;
32     width: 600px;
33     height: 600px;
34     border-top-left-radius: 40%;
35     border-top-right-radius: 45%;
36     border-bottom-left-radius: 35%;
37     border-bottom-right-radius: 40%;
```

```

38     z-index: -1;
39   }
40
41   &::before {
42     left: 50%;
43     bottom: -130%;
44     background-color: rgba($blueQueen, 0.15);
45     animation: wawes 6s infinite linear;
46   }
47
48   &::after {
49     left: 40%;
50     bottom: -125%;
51     background-color: rgba($greenSeaweed, 0.2);
52     animation: wawes 7s infinite;
53   }
54
55   > input {
56     font-family: $fontAsap;
57     display: block;
58     border-radius: 5px;
59     font-size: 16px;
60     background: white;
61     width: 100%;
62     border: 0;
63     padding: 10px 10px;
64     margin: 15px -10px;
65   }
66
67   > button {
68     font-family: $fontAsap;
69     cursor: pointer;
70     color: #fff;
71     font-size: 16px;
72     text-transform: uppercase;
73     width: 80px;
74     border: 0;

```

```

padding: 10px 0;
margin-top: 10px;
margin-left: -5px;
border-radius: 5px;
background-color: $redFire;
transition: background-color 300ms;

&:hover {
  background-color: darken($redFire, 50%);
}
}

@keyframes wawes {
  from { transform: rotate(0); }
  to { transform: rotate(360deg); }
}

```

Figure 21 login.scss code

8. Appendix B

Milestone review is provided below:

- **Milestone 1:** Proposal Submission
Status: Completed
- **Milestone 2:** Interim Report Submission
Status: Only Submission remaining
- **Milestone 3:** UI design and wireframe
Status: Almost Completed
- **Milestone 4:** Develop Use Case
Status: Almost Completed
- **Milestone 5:** Development of Web application
Status: Initialized
- **Milestone 6:** Testing
Status: Incomplete
- **Milestone 7:** Documentation
Status: Incomplete
- **Milestone 8:** Submit final Year project
Status: Incomplete

9. Appendix C

Survey Findings

Have you ever been to institute that teaches for short term which provide knowledge/skills for certain field? For Example: NAME, Vibrant etc.

25 responses

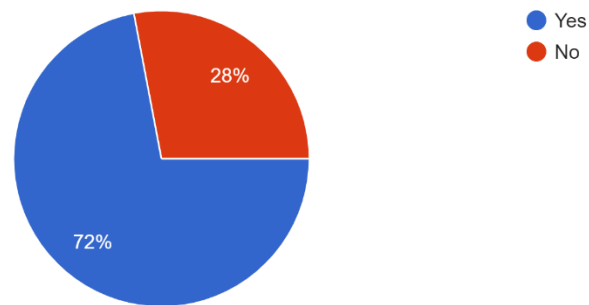


Figure 22 Survey Question 1

If yes, For what purpose you have been to educational institute?

19 responses

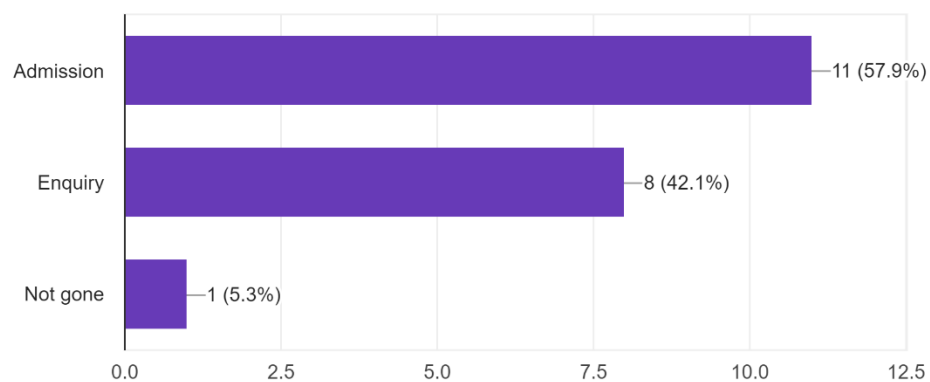


Figure 23 Survey Question 2

How did they keep your record?

19 responses

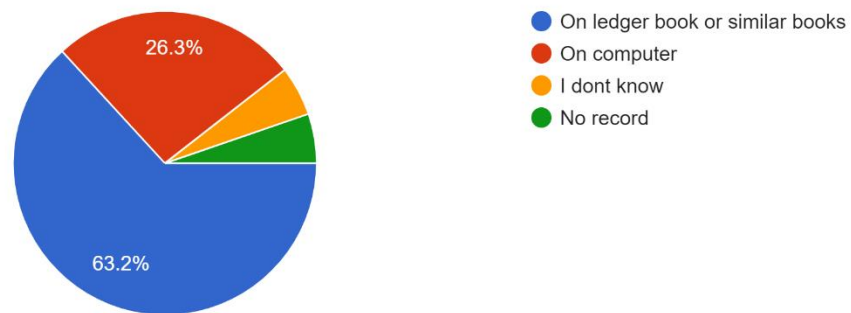


Figure 24 Survey Question 3

What type of record you prefer?

25 responses

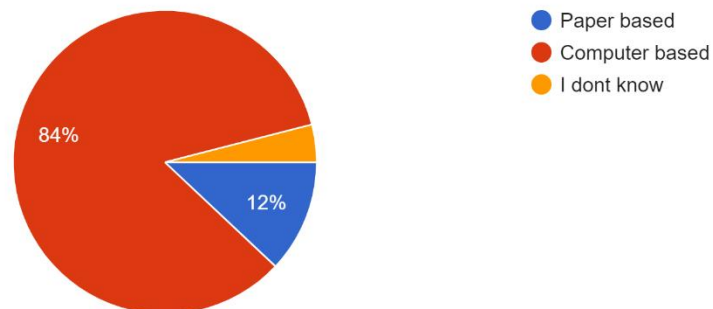


Figure 25 Survey Question 4

What type billing system you feel reliable?

25 responses

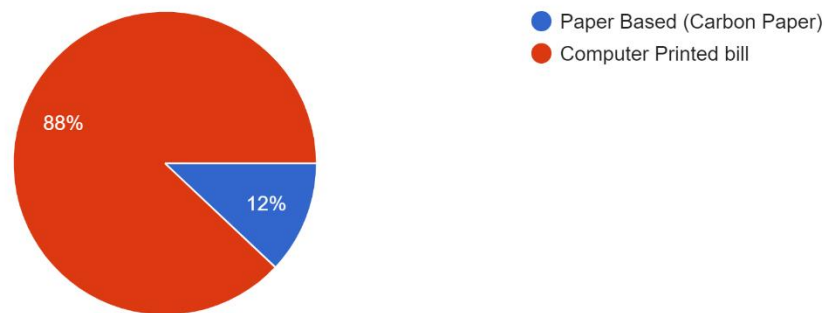


Figure 26 Survey Question 5

Rate security of Computerized system of recording compared to traditional paper based recording.

25 responses

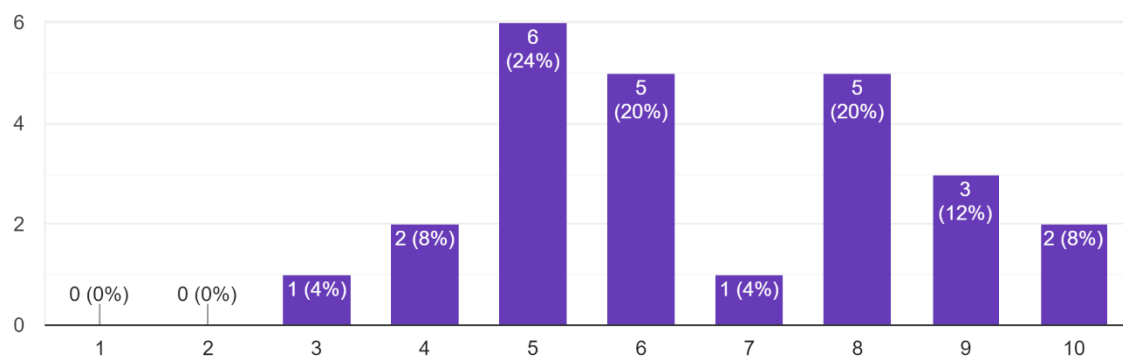


Figure 27 Survey Question 6

Give suggestion on increasing security for computerized system.

25 responses

Having Password Protection

Add Firewall

strong passwords.?

Password system; user login system

Strong passwords

Having strong password and asking for permission for any editing job

Keep password

Token authentication on each bill, secure encryption

Consulting a cyber security specialist while building the system

Install and Use Antivirus and Anti-spyware Software

Not to share pin and passwords.

Having strong password

Data privacy, authentic software or system

increase physical security as well as use of different protocol

Anything.

To improve security in computerized system at first network security should be established .

Use of cards for access should be minimized Access management should focus more on fingerprints and passcode access

Having OTP while login

System should have strong password	
Use of system by authorized personnel only	
keep password	
Installing antivirus and anti spy ware software	
System must have password protection	
Password protection and used by certain people only	
It is very convenient if the security is good where we access.	

Figure 28 Survey Question 7

What will you prefer to be familiar if you have to switch to digital system from traditional manual system?

25 responses

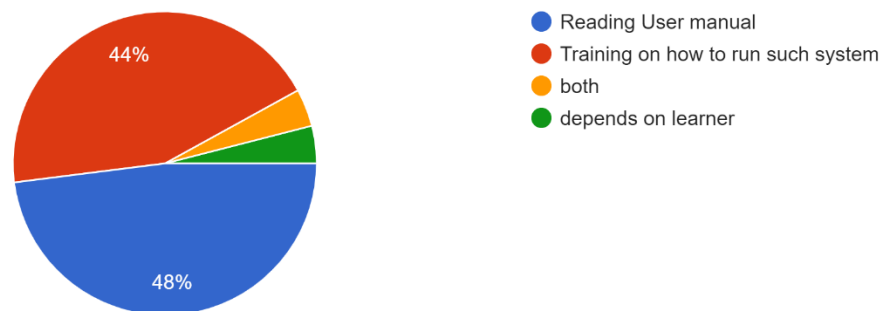


Figure 29 Survey Question 8