# A WEB BASED COLLEGE MANAGEMENT SYSTEM IN RURAL & URBAN AREAS IN BANGLADESH

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Master of Science in Computer Science and Engineering

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## APPROVAL

This Project titled **"A Web Based College Management System In Rural & Urban Areas In Bangladesh"**, submitted by **Md. Wahid Sakib Basunia**, ID No: **212-25-972** to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of M.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 21-09-2022.

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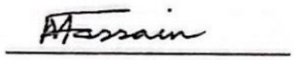

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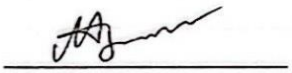

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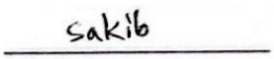

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# ABSTRACT

I am proposing a web-based college management system in rural & urban areas in Bangladesh. Focusing on student and college management the system manages student information, updated notices, and academic activities like daily attendance, class routine, syllabus, classroom activities and other relevant information. Related management system mostly focuses on student information. In this management system, I am developing a new one with unique features. To develop the system, I am collect information from different sites and places and implemented it with the PHP Laravel framework. The programming language used for HTML5, CSS3, JS and PHP and Database used for MySQL. Final systems can manage student and teachers' information and their related activities. Admin as a teacher view and update information. Teachers and admin are handling overall administration information. Doing all the online activities in one system will make the work much easier and save a lot of time The overall system is helpful for a college to manage their student and administration information where the student is also able to get their information over the internet especially in rural and urban areas. I am hardly Tring to build up my project specially to the urban and rural areas people.

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# CHAPTER 1

# INTRODUCTION

## 1.1 Introduction

The development and design of a web-based college management system for rural and urban areas of Bangladesh is the main emphasis of this project. Create a plan, gather the data, design the website, and then implement it to build the project. I'm attempting to convey an idea of the college management system in this project, which will aid in maintaining college management. Additionally, the project offers a few services related to the College website. Students received updates on this website's homepage. The College Management System project uses the Laravel PHP framework. MySQL is the database and HTML5, CSS3, JS, and PHP are the programming languages. This initiative has motivated me to work on more development-related projects. This knowledge will be useful to my future work.

This project uses for college management. By this system user can manage student and teachers' information and their related activities. Students as a teacher view and update information. Teachers and admin are handling administration information. The overall system is helpful for a college to manage their student and administration information where the student is also able to get their information over internet [Ref-1].

## 1.2 Motivation

Time is the most precious asset for all students, and students will not experience any difficulties if college staff members can keep track of all matters pertaining to their students. So that they may use online applications to answer student problems on time and without wasting time. It aids in the prevention of the students' most significant information.

To find if we used any web platform student could easily see their available notice and other class and college related information. In rural and urban area student faces several issues to communicate and do administration activities. This thing inspired us for making this system which will help student and college both to manage their activities and information [Ref-1].

## 1.3 Objective

The purpose of the development to establish a Web Based Collage Management System for rural and urban area of Bangladesh. The main aim of the mission on college management gadget is to manipulate the information of universities, students, classes, teachers, and publications. It manages all of the records approximately college s, Registrations, path, college. The venture is absolutely built for administrative case and hence simplest for administrator has assured the get entry to. The goal of the research is to create an application that will reduce the amount of guiding work required while interacting with the university, college students, Registrations, and instructions. It tracks all the details about the lessons, teachers, and publications [Ref-2].

- To construct a responsive website to control the exclusive university activities.
- To track student's grades from their dad and mom.
- To facilitate distribution technique of guides and classes for teachers.
- To facilitate grades entry process for college kids through teachers.
- To make a digital community between the participants of tutorial manner.

## 1.4 Problem Statement

In the present College Management System for rural & urban areas of Bangladesh, Information about kids, teachers, and parents should not be kept on paper. Due to the large amount of information, attempting to access any of the stored information becomes a difficult and time-consuming procedure. While parents and instructors now have more obligations than merely watching after pupils, it could be tough for them to keep an eye on them. While storing and retrieving information is difficult, it also needs a huge number of additional personnel. In rural and urban area student faces several issues to communicate and do administration activities. This thing inspired us for making this system which will help student and college both to manage their activities and information [Ref-3].

## 1.5 Research Outcome

Main aim of our system is to handle and mange whole college information where student, teachers and administrator all will be getting a unique system.

- Provide the best and user-friendly tools via web for online registration.
- Always track and record Admission and Enrollment of the students.
- Create and track course-work, assignments and also exam papers in a very conductive Classroom environment.
- Establishing a communication system that makes it easy to speak on every step towards the task of improving the education experience for students and everybody involved.
- The development of a discipline tracking and behavior management system to deal with absenteeism and tardiness among students.Automate and streamline student attendance.
- Implementation of technology-based college management software to replace paper-based process with automation user-friendliness that protects lots of time and makes the task easier for the staff.

## 1.6 Report Layout

**Chapter 1:** Introduction

The segment is mostly used to introduce the project. This section has looked into the project's motivation, aims, and research outcome.

**Chapter 2**: Projects and Activities

In this chapter we will discuss about the whole project activities and different work procedure with providing daily task and activities, Potential targeted population, Challenges etc.

**Chapter 3:** Requirement Analysis

This chapter discusses about the requirement and smart plan with reflecting the competencies ear

**Chapter 4:** System Analysis & Design Specification

In this section, we will look at design patterns in several scenarios. Front-end layout, back-end design, interaction design, user experience (UX), and acceptance criteria

**Chapter 6:** Implementation and Testing

Database methodology, front-end styles and interfaces, testing integration, test results, and test reports are all covered in this chapter.

**Chapter 7:** Critical Appraisal (SWOT Analysis)

Strength, threats, opportunities, weakness will be discussing about this project in his chapter.

**Chapter 8:** Conclusion

It is the last chapter we are discussing about project report conclusion and further suggested work and what we can be make and improve in future.

## 1.7 Conclusion

Internet platform used for this task development. The principle motive of this venture is to expand an internet based totally application which covers all of the details of the college like student records panel, trainer data panel, pupil development report, gradient panel, instructional device, scholar attendance, mark sheet, elegance ordinary, send messages, all of the information related to college, staff and pupil are securely stored in database which is controlled by the university control device.

The machine utilizes the authentication; each sub activity has authentication allowing the authorized customers to login the gadget to create or update records inside the precise hobby. College control gadget undertaking is carried out in php framework Laravel. Programming language use to HTML5, CSS3, JS and Hypertext Preprocessor and Database used to MySQL. Every person in university management gadget has one-of-a-kind domestic page with their respective levels like pupil has the exceptional stage and teacher has the extraordinary level.

Thru that displayed menu person can get entry to the distinctive choice of the software assigned him. The gadget university management gadget can be used to control facts of all type of education institute [Ref-4].

# CHAPTER 2

# RESEARCH AND ACTIVITIES

## 2.1 Introduction

The main target of this development is to create a web based application that satisfied all the requirement of the clients and provide the best and user-friendly tools via the web for online registration. Analyzed prior projects in this management system on the website for making a unique idea that hasn't been in the others projects. To develop this project, at first we analyze antecedent work for determining its problems and limitations. Try to overcome all the previous limitations and try to improve all the possible scope. This system will provide better performance than the previous system. There have some related works in the following, we tried to improve the concept and tried to make an updated version which is providing more facilities than others [Ref-5].

## 2.2 Daily Task and Activities

Tried to work accordingly by discussing the work with honorable supervisor sometimes. Corrected the errors and updated again. That's how tried to come up with an amendment fulfill.

## 2.3 Events and Activities

Here is some related management system of the web application list given below. Study them properly and determine the limitations for solving and developing our project, and get the most possible improving idea.

- Alma dem academy [Ref-6].
- Power Vista Roll Call [Ref-7].
- Cluster [Ref-8].
- Viqarunnisa Noon School & College [Ref-9].

## 2.4 Research Objective

Main objective of this project is to make a system which manages student information, updated notices, and academic activities like daily attendance, class routine, syllabus, classroom activities and other relevant information. Here is our sorted out main objective of this system [Ref-10].

- Maintain student information
- A unique and user-friendly system for colleges based on rural areas
- A modern way of managing college activities.
- Handle and make easier way of handling student and administration information and related college activity.

## 2.5 Research Task and Activities

To develop this work, The divide of activities. First of all, gather related work and information. Then we do real time field visit by visiting some colleges based in rural areas with collecting information. Then we start our system design and architecture and finally developed the system.

Analyzing the previous website for management systems, noticed most of these systems are used the common systems and maximum systems are used for their as usual information purpose only. The compared our project with other projects who are working in this sector. Comparatively, tried to give unique features and also tried to make it the best user-friendly tool, still, trying to update our system to add more and more features soon. This will give the users a large area of services. Implementation of technology-based college management web application software to replace the paper-based process with automation user-friendliness that protects lots of valuable time and also makes the task easier for the staff.

## 2.6 Potential targeted population

The main objective was to develop this system for people who based in rural areas, so the main targeted group of people is rural area in Bangladesh. Colleges where the communication system is not so good, we target as a desire population.

## 2.7 Challenges

It faced some major challenges for this project when the project developed, mentioned bellow:

- Control admin and user parts
- Database management
- Eye catchy UX and UI design
- Security issue

## 2.8 Conclusion

The chapter basically describing the process of work activity and objective. Also describing the challenges, during this development. Main aim of the project was to make a system for colleges based on rural area. To develop this system, divide the work in different way.

# CHAPTER 3

# REQUIREMENT ANALYSIS

## 3.1 Introduction

In this chapter going to make a plan to fulfill this development with various methods. The making a web-based software solution which will manage and handle whole college administration, notice, student information and other class related information.

## 3.2 Competencies Earned

In this system development, used PHP based Laravel framework with HTML and CSS. During this development, we have to gather the knowledge of administrative of a college, how do they manage their student information and other relative information. also have to analyze the best and easiest path and better user experiences. Then make a plan to develop and shift the manual system to web based digital platform. To earned and study various methods of web development and finalize Laravel as a framework. To come over PHP, HTML, CSS, MYSQL and different programming languages and technologies.

## 3.3 Smart Plan

To implement this complex system, we have to make several plan and model to successfully run this system. First gather information with background study then provide plan a field visit then designs and architect the system. Finally, to egger to develop the system with the plan.

## 3.4 Reflection

The industrial employer technique Modeling Notation (BPMN) is visual modeling language for commercial business enterprise evaluation packages and specifying organization way workflows, this is an open giant notation for graphical flowcharts this is used to outline business way workflows. It's far famous and intuitive photo that may be effects recognize by means of the use of all agency stakeholders, which incorporates commercial enterprise customers, business analysts, software developers, and statistics

architects. Following the Business Process Model Diagram, [Ref-11]. I showed the visual modeling of the system workflows. Users/Students need to log in first if they are not registered first. Admin/Teachers also need to be login. Students get the relevant information regarding their college and activities like notice, routine, exam and other related info. Admin able to check, update and delete the relevant info. A key to corporation device manipulates, it visually depicts a detailed collection of industrial enterprise sports activities and facts flows wished to finish a method. BPMN is often the extraordinary modeling notation for commercial enterprise approaches, virtually positioned. It gives more rigor and perception than simple flow charts. It's miles greater understandable (to non-techies) than UML hobby diagrams and higher perfect to method analysis and design.

### 3.4.1 USE Case Design

A UML diagram is a diagram that is based entirely on the UML (Unified Modeling Language) and is used to depict a system graphically, together with all of its key players, roles, activities, artifacts, or training, in order to better understand, edit, maintain, or report system-related information. Main purpose of this UML diagram is to indicate functionality and how exactly each of the processes working depends on role.

In this project there are two USE CASE diagram because one for the customer site another one for the admin part [Ref-12].

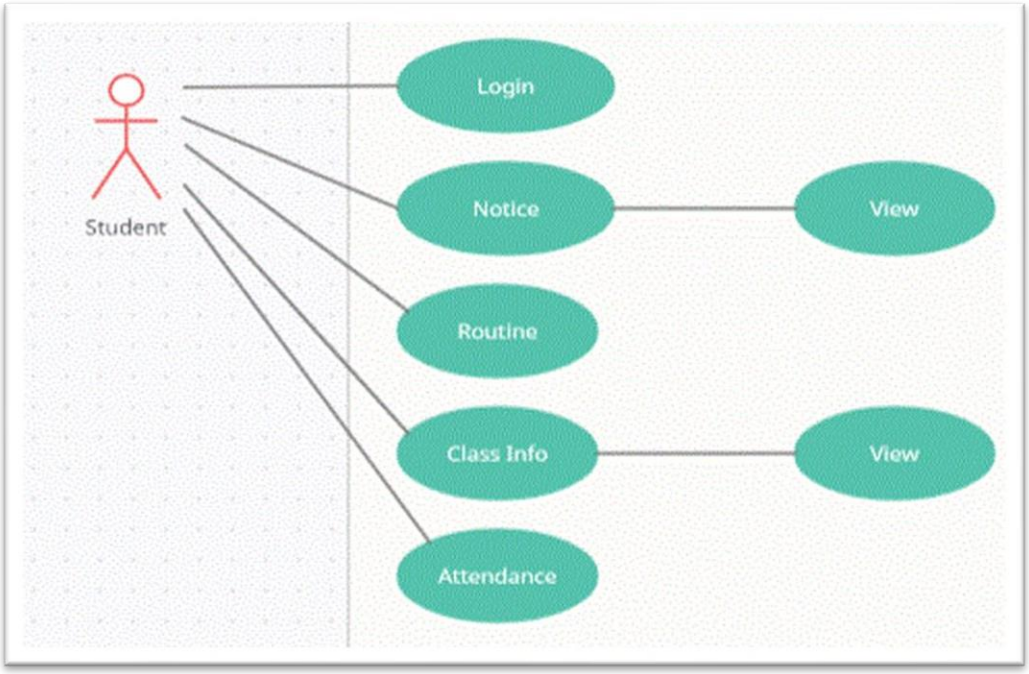


Figure 3.1: Use case diagram of Student

User interaction shows in the diagram part working procedure for this project work. A user needs to enter the system by login. If the users are not registered yet, they need to register first which show by process. After successful login a user enters the home page which views them an available notice, routine, attendance, class info. User able to check their info [Ref-12].

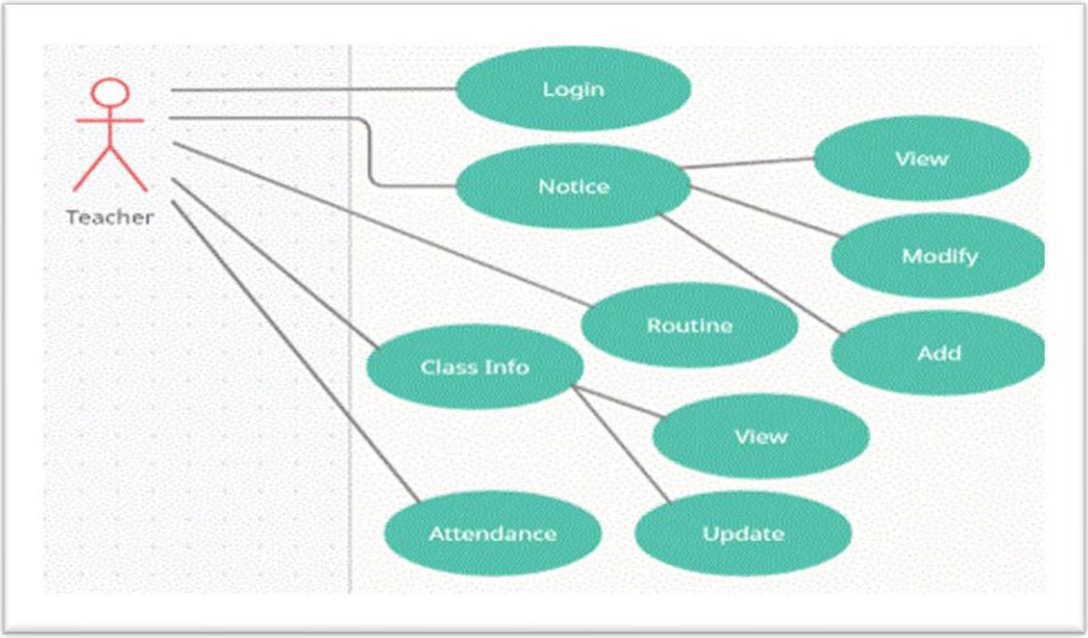


Figure 3.2: Use case diagram of Teacher

The admin/teacher part working procedure for this project work showed into the figure. Same as a user, admin need to enter the system by login. There is no direct registration process available for admin. After successful login as admin enter the home page which views them official's information. Main difference a admin and user is admin able to modify each thing. Administrator ads modify and changes relevant info regarding college.

## 3.5 Urban and Rural area

Bangladesh is a very emerging country in terms of ICT, such as telecommunications and software outsourcing. However, there is still a long way to go before e-education reaches market levels where it can serve people at all levels. There have been a number of web application software program initiatives in Bangladesh in the past.

Entirely based on the Rural and Urban University Management Control System of Bangladesh, this assignment and internet specialize in network development and layout of the College management system.

This project is inherently useful for university administration. The system allows users to manage student and teacher information and related activities. Students as teacher's view

and update information. Teachers and administrators handle administrative information. The overall system helps the university manage student and administrative information, and students can also access information through the Internet.

As an emerging country, Bangladesh is technologically advancing day by day. In the past, Bangladesh's rural population was severely deprived of well-developed and modern educational services. However, thanks to information and communication technology, Bangladeshi people enjoy always-available education services in both urban and rural areas. In order to catch up with developed countries, we are using ICT to strengthen our education sector and provide the best education services ever. Also, if the proposed model is implemented, its effective operational features will add new degrees to the education sector.

## 3.6 Conclusion

The chapter based on the plan how we will develop the system; To made the smart plan by providing different diagram and scenario.

# CHAPTER 4

# SYSTEM ANALYSIS & DESIGN

## 4.1 Introduction

This chapter will provide a complete description of the device and its customers. Then it depicts the realistic and non-useful necessities which have been collected using numerous strategies like brainstorming, interview and e-surveys. After figuring out the most critical necessities, requirement analysis changed into observed the use of numerous equipment which consist of use-case diagram, collection diagram and pastime diagram.

## 4.2 System Analysis

In this section, try to explain and analyze the development process of the web application of the College Management System including software requirement. Software requirements are comprised for this part to give outline of system requirements before the developing system is done. Aside from that, modern versus proposed offers a perspective on how the proposed framework may be greater efficient than the existing one. The web application system is used three type of user, teacher user, parent's user and student user.

- Teacher users have sign up and registration process to authentication
- Student users have sign up and registration process to authentication
- Parents users have sign up and registration process to authentication
- Login to the system the users can view the home page
- Home page contains some functions such as Admission, teachers, academic, about us, contact, and info.
- Home page show the teacher's profile of the college
- Academic function contains Daily attendance, Class routine, Syllabus, Class, Class room, Department, Subject, event calendar etc.
- Dashboard contains overview of the students, teacher, parents and staff information, attendance, recent event.

- Accounting function contains Student fee manager, Expense category, Expense manager.
- User function contains Student, Admission, Teacher, Teacher, Permission, Parent, Account and Librarian.
- Settings function contains System setting, payment setting and College settings
- Admin can modify user's info and other info related with the college

### 4.3 System Design

The Entity Relationship Diagram is displayed in the diagram. A statistic generating (IT) device's entity-relationship diagram (ERD), [Ref-13] also called an entity-relationship version, is a graphical representation that shows relationships between people, things, locations, standards, or events [Ref-14].

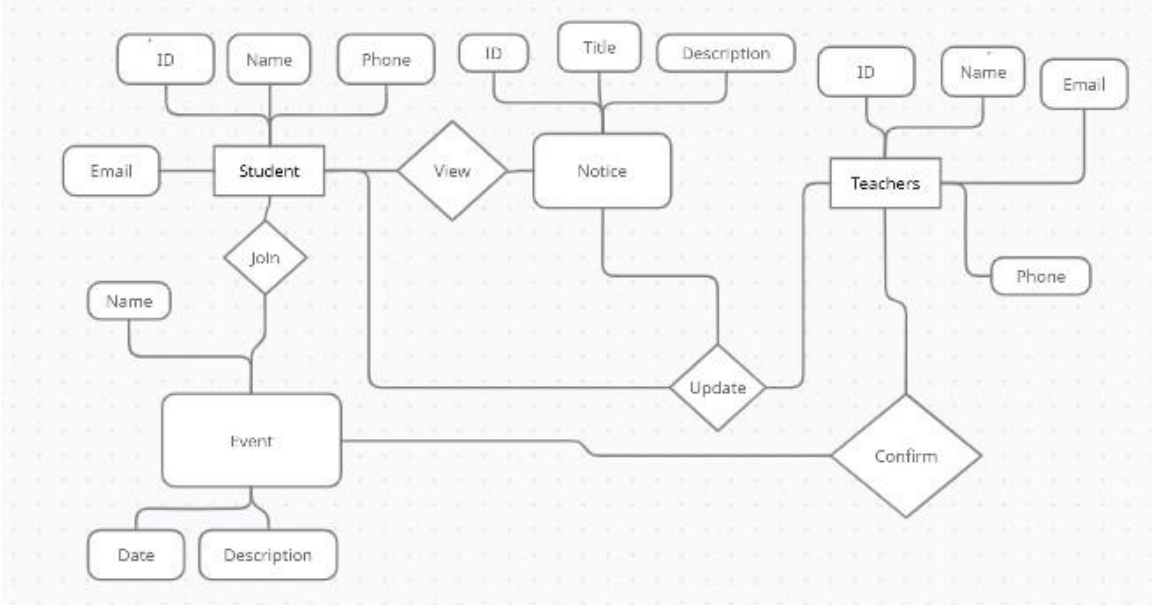


Figure 4.1: ER diagram

In this diagram each user act as a student and they have unique id, name, email, and phone. Student can view notice and other info. Each notice has unique id name, description. Admin have id, name, email phone. And admin can update information based on need.

### 4.3.1 Database Schema

The skeleton form of a database schema is the logical perspective of the complete database. It explains the structure of the facts and the relationships between the various family members. It outlines all of the restrictions that must be placed on the data.

The device has five database tables as proven in parent sixteen. Each table includes an identification and several one-of-a-kind attributes related to one-of-a-kind features [Ref-15].

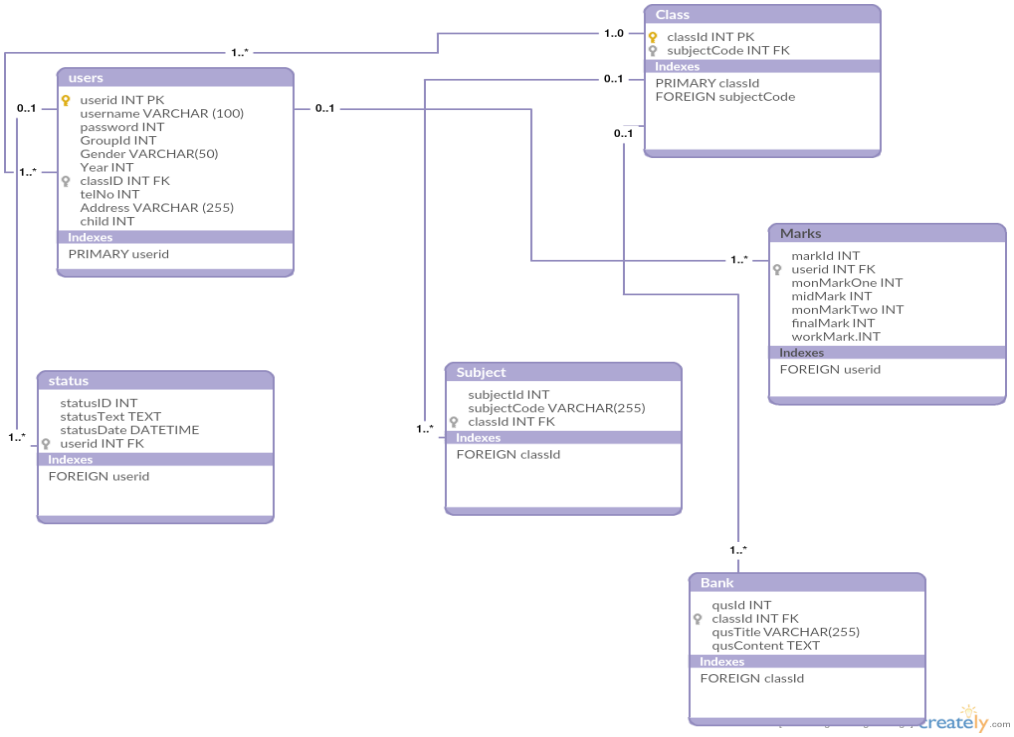


Figure 4.2 Database Schema

### 4.4 Front-end Design

Front-end design of the College Management System project is implemented with HTML5, CSS3 and JS. In the net utility of the college control machine, each person has separate domestic page with their respective ranges like student, teacher and parents has the separate stage. The use of this gadget, displayed menu consumer can get entry to the extraordinary choice of the utility assign him. The net application of the college management system may be used to manipulate records of all type [Ref-16].

➢HTML, CSS: HTML (the Hypertext Markup Language) and CSS (Cascading style Sheets) are of the primary markup language for growing net pages. HTML makes the structure of the page, and CSS is the layout, for various gadgets [Ref-17].

#### 4.4.1 Dashboard structure:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    @php isset($title) ? $title = $title." | ".get_settings('system_title') : $title = get_settings('system_title'); @endphp
    <title>{{ $title }}</title>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta content="A fully featured admin theme which can be used to build CRM, CMS, etc." name="description" />
    <meta content="Coderthemes" name="author" />
    <!-- App favicon -->
    <link rel="shortcut icon" href="{{asset('backend/images/favicon.ico')}}">
    @include('backend.layout.styles')
</head>

<body @if(Request::route()->getName() == 'daily_attendance.index' || Request::route()->getName() == 'student.create' || Request::route()->getName() == 'student.
<!-- Begin page -->
<div class="wrapper">

    @include('backend.'.Auth::user()->role.'.navigation.navigation')

    <!-- ============================================================== -->
    <!-- Start Page Content here -->
    <!-- ============================================================== -->

    <div class="content-page">
        <div class="content">

            @include('backend.layout.header')

            <!-- Start Content-->
            <div class="container-fluid">

                @yield('content')
            </div>
```

Figure 4 .3 Dashboard structure

### 4.4.2 Homepage structure:

```
                                <li><a href="#"><i class="fa fa-youtube"></i></a></li>
                            </ul>
                            <h4>jenifer lops</h4>
                            <p>25 years old-<span>Music teacher</span></p>
                        </div>
                    </div>
                    <!--/ End Single Team -->
                </div>
            </div>
        </div>
    </section>
    <!--/ End Team -->



    <!-- Become Area -->
    <section class="become overlay section" data-stellar-background-ratio="0.5">
        <div class="container">
            <div class="become-inner">
                <div class="row">
                    <div class="col-12">
                        <div class="become-text">
                            <h2>become a teacher</h2>
                            <p>Mauris at varius orci. Vestibulum interdum felis eu nisl pulvinar, quis ultricies nibh. Sed ultricies ante vitae laoreet sagi
                            <div class="button">
                                <a href="#" class="btn">Get Started</a>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </section>
```

Figure 4.4 Homepage structure

### 4.4.3 Login page structure:

```
</head>

<body class="auth-fluid-pages pb-0">

    <div class="auth-fluid">
        <!--Auth fluid left content -->
        <div class="auth-fluid-form-box">
            <div class="align-items-center d-flex h-100">
                <div class="card-body">

                    <!-- Logo -->
                    <div class="auth-brand text-center text-lg-left">
                        <h3> College management system </h3>
                    </div>

                    <!-- title-->
                    <h4 class="mt-0">Sign In</h4>
                    <p class="text-muted mb-4">{{ translate('enter_your_email_address_and_password_to_access_account') }}.</p>

                    <!-- form -->
                    <form method="POST" action="{{ route('login') }}">
                        @csrf

                        <div class="form-group">
                            <label for="emailaddress">Email</label>
                            <input class="form-control" type="email" id="emailaddress" required="" placeholder="Enter your email" name="email">
                        </div>
                        <div class="form-group">
                            <a href="{{ route('password.request') }}" class="text-muted float-right"><small>Forgot your password?</small></a>
                            <label for="password">Password</label>
                            <input class="form-control" type="password" required="" id="password" placeholder="Enter your password" name="password">
                            @if ($errors->has('email'))
                            <span class = "error"> {{ $errors->first('email') }} </span>
                            @endif
                        </div>
```

Figure 4.5 Login page structure

### 4.4.4 Registration Page Structure:

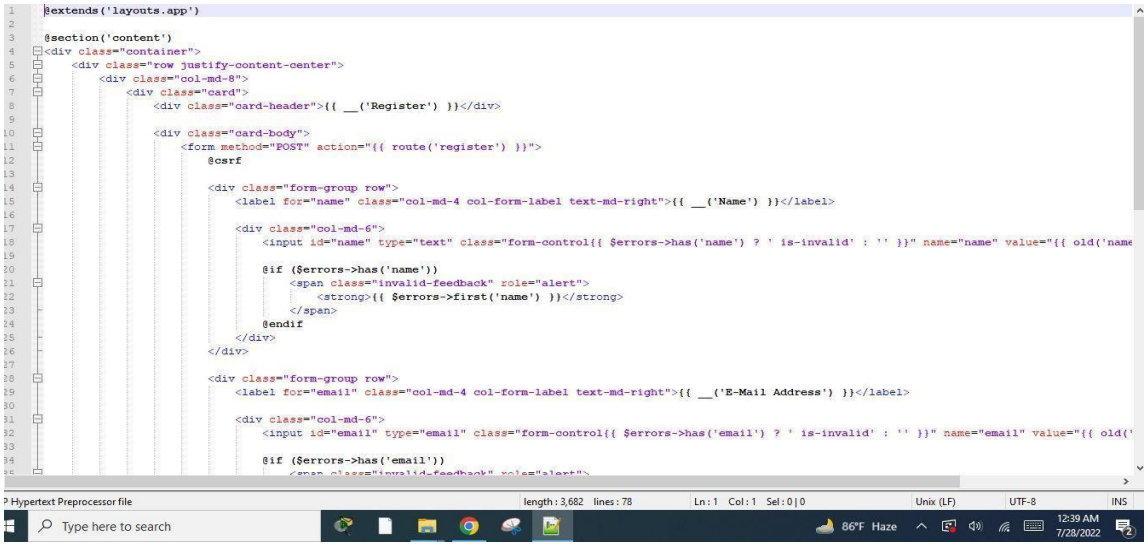


Figure 4.6 Registration Page structure

### 4.4.5 Daily attendance source code

Figure 4.7 Daily attendance source code

### 4.4.6 Department add source code

create.blade.php

```
<form method="POST" class="d-block ajaxForm" action="{{ route('department.store') }}">
    @csrf
    <div class="form-row">
        <div class="form-group col-md-12">
            <label for="name">{{ translate('department_name') }}</label>
            <input type="text" class="form-control" id="name" name = "name" required>
            <small id="department_name_help" class="form-text text-muted">{{
            translate('provide_department_title') }}.</small>
        </div>

        <div class="form-group  col-md-12">
            <button class="btn btn-block btn-primary" type="submit">{{
            translate('create_new_department') }}</button>
        </div>
    </div>
</form>

<script>
    $(".ajaxForm").validate({});
    $(".ajaxForm").submit(function(e) {
        var form = $(this);
        ajaxSubmit(e, form, showAllDepartments);
    });
</script>

```

Figure 4.8 Department add source code

### 4.4.7 Student add source code

create.blade.php

```
                    <ul class="nav nav-pills bg-light nav-justified form-wizard-header mb-3"
                    >
                        <li class="nav-item" data-target-form="#accountForm">
                            <a href="{{ route('student.create') }}" class="nav-link
                            rounded-0 pt-2 pb-2 @php if($type == 'single') echo 'active
                            show'; @endphp">
                                <i class="mdi mdi-account-circle mr-1"></i>
                                <span class="d-none d-sm-inline">{{
                                translate('single_student_admission') }}</span>
                            </a>
                        </li>
                        <li class="nav-item" data-target-form="#profileForm">
                            <a href="{{ route('student.bulk') }}" class="nav-link rounded-0
                            pt-2 pb-2 @php if($type == 'bulk') echo 'active show'; @endphp">
                                <i class="mdi mdi-account-group mr-1"></i>
                                <span class="d-none d-sm-inline">{{
                                translate('bulk_student_admission') }}</span>
                            </a>
                        </li>
                        <li class="nav-item" data-target-form="#otherForm">
                            <a href="{{ route('student.excel') }}" class="nav-link
                            rounded-0 pt-2 pb-2 @php if($type == 'excel') echo 'active
                            show'; @endphp">
                                <i class="mdi mdi-upload mr-1"></i>
                                <span class="d-none d-sm-inline">{{
                                translate('excel_upload') }}</span>
                            </a>
                        </li>
                    </ul>
```

Figure 4.9: student add source code

### 4.4.8 Mask add source code

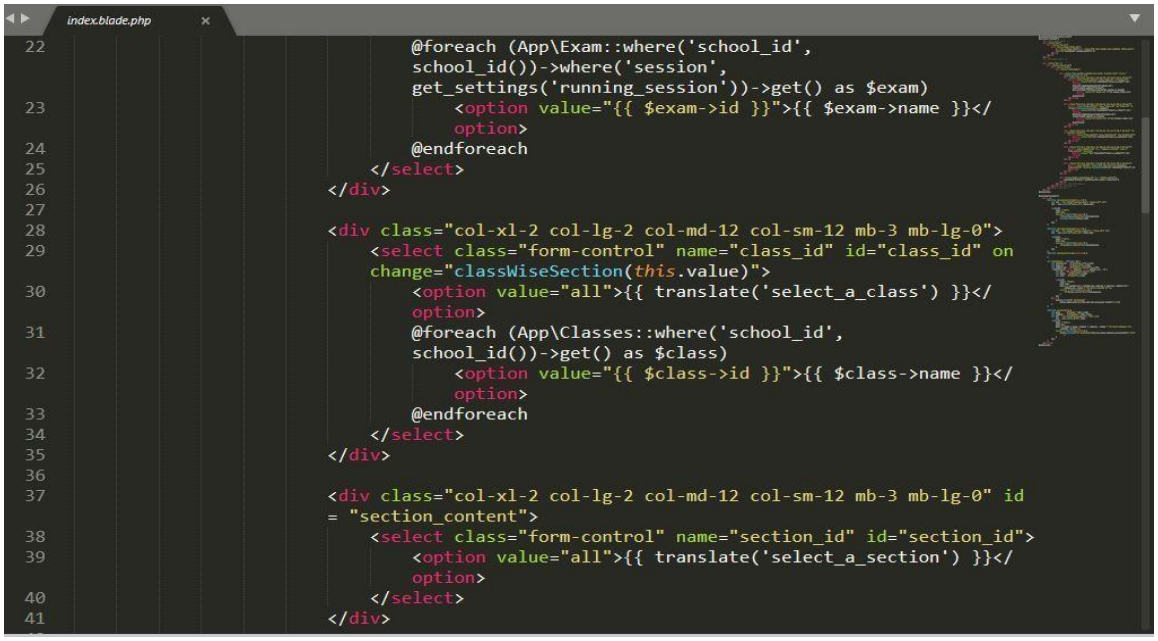


Figure 4.10 mask add source code

### 4.4.9 Student profile source code

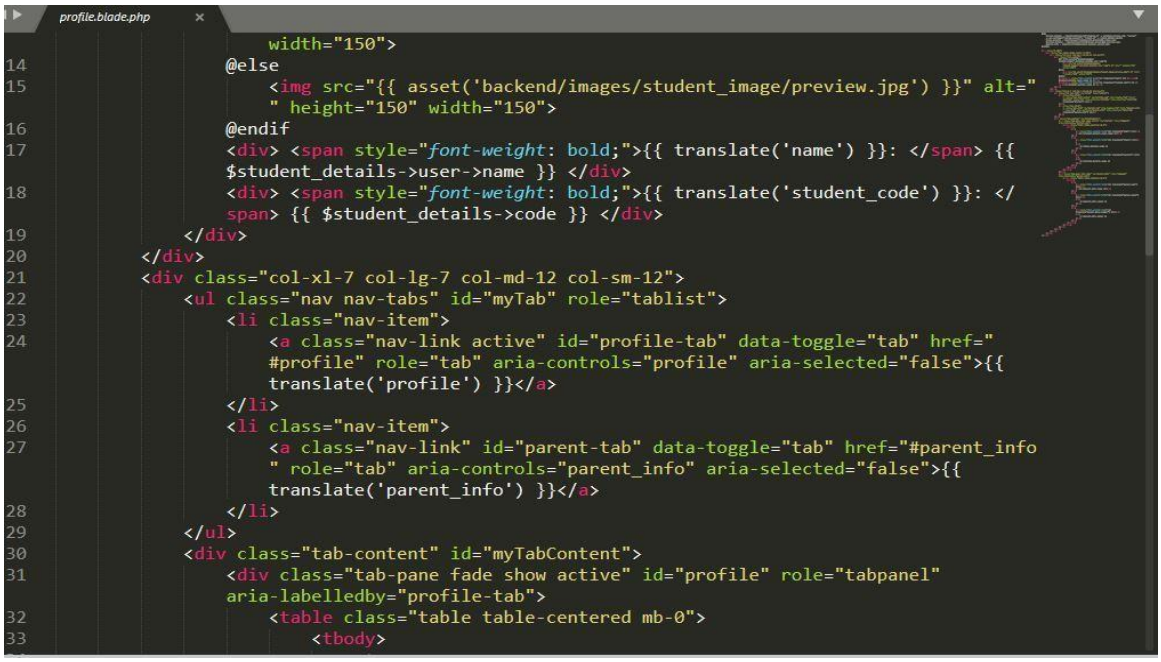


Figure 4.11 student profile source code

### 4.4.5 JavaScript:

JavaScript is a dynamic computer programming language that is also called a text-based programming language. It's far lightweight and utilized on both the client and server sides, enabling interactive web pages. Whereas HTML and CSS are languages that give web pages structure and layout, JavaScript adds interactive elements that allow for human interaction. [Ref-17]

```
script type="text/javascript">

  var callBackFunction;

  function showAjaxModal(url, header)
  {
  // SHOWING AJAX PRELOADER IMAGE
  jQuery('#right-modal .modal-body').html('<div style="text-align:center;margin-top:200px;"><img src="{{ asset('backend/images/loader.gif') }}" style="heig
  jQuery('#right-modal .modal-title').html('...');
  // LOADING THE AJAX MODAL
  jQuery('#right-modal').modal('show', {backdrop: 'true'});

  // SHOW AJAX RESPONSE ON REQUEST SUCCESS
  $.ajax({
    url: url,
    success: function(response)
    {
      jQuery('#right-modal .modal-body').html(response);
      jQuery('#right-modal .modal-title').html(header);
    }
  });
  }

  function showLargeAjaxModal(url)
  {
      jQuery('#large-modal').modal('show', {backdrop: 'true'});
      $.ajax({
          url: url,
          success: function(response)
          {
              jQuery('#large-modal .modal-body').html(response);
          }
      });
  }
```

Figure 4.12 Source code using JavaScript

## 4.5 Back-end Design

The software of College Management System is implemented in PHP framework Laravel. We used PHP for programming language and also used to MySQL for Database [Ref-18].

### 4.5.1 Database for all table list:

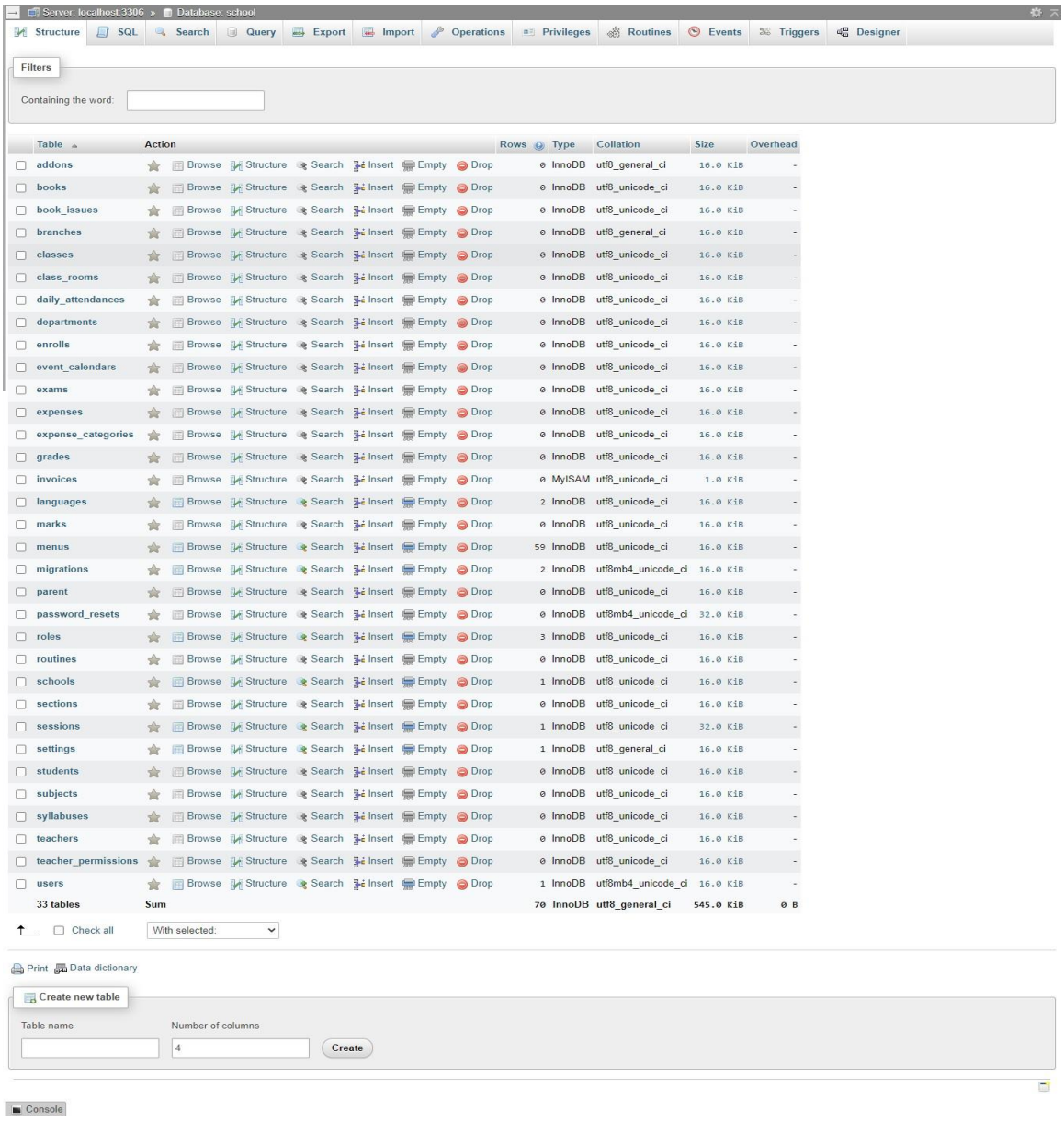


Figure 4.13 Database for all table list

## 4.5.2 Database for Student list:

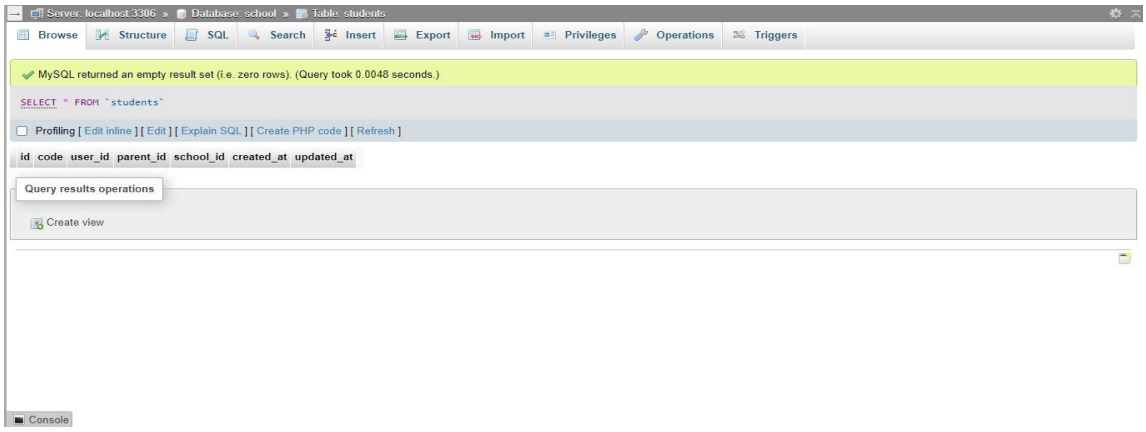


Figure 4.14 Database for Student list

## 4.5.3 Database for Teacher list:

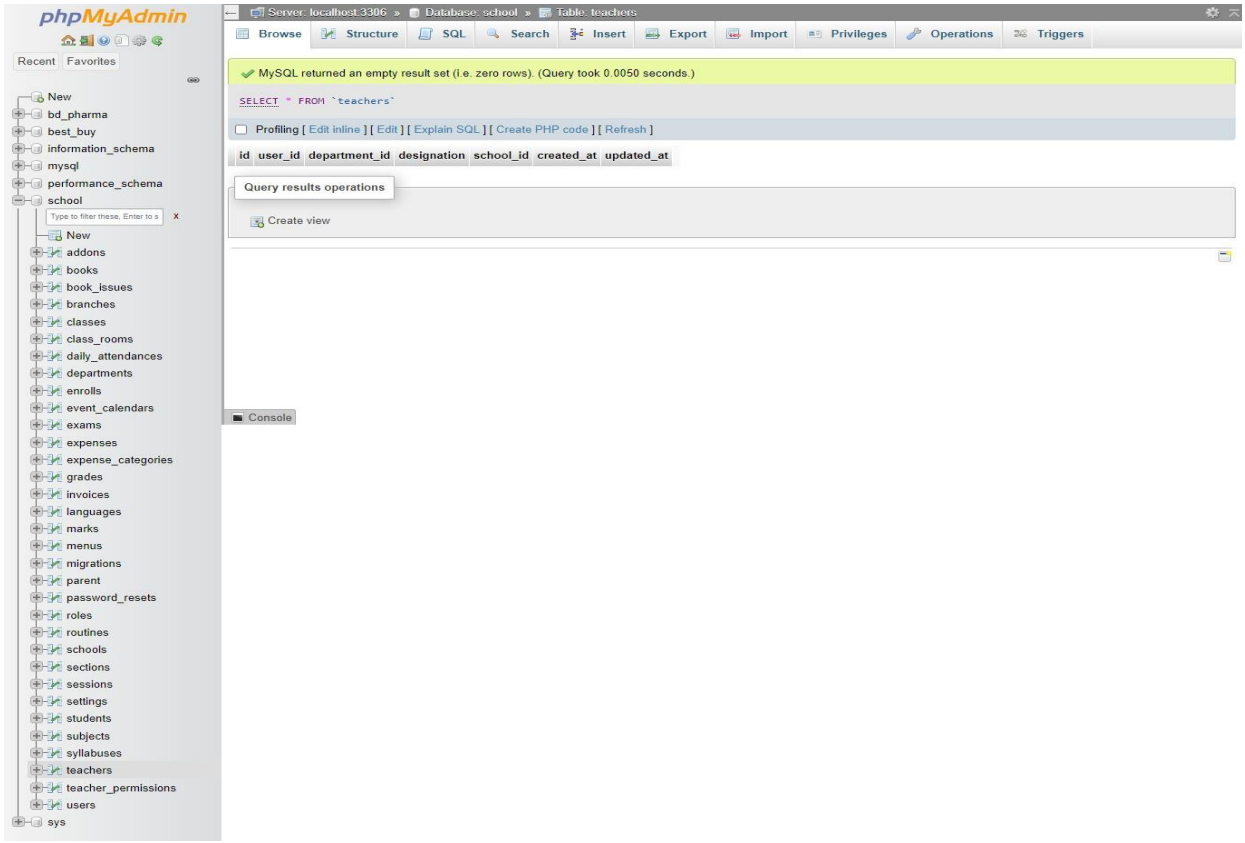


Figure 4.15 Database for Teacher list

### 4.5.4 Database info for User list:

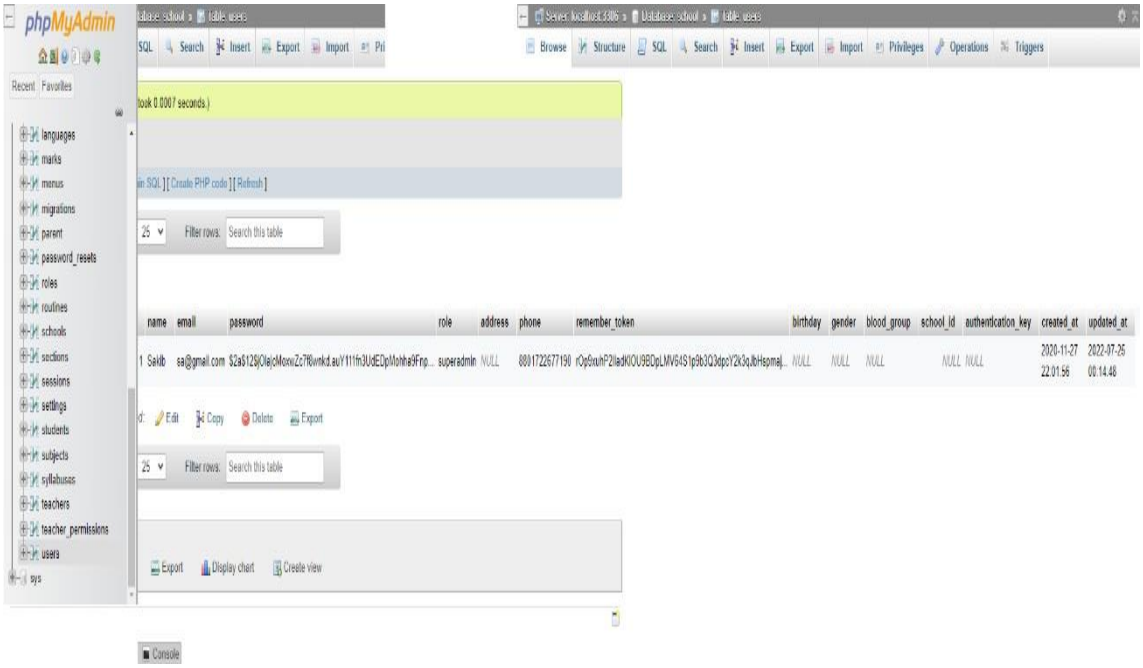


Figure 4.16 Database for User list

## 4.6 Conclusion

In this chapter the analyzing of the project and describing different design scenario. To describe how we design the system development then also talk about the system's front end and back-end design.

# CHAPTER 5

# SYSTEM DEVELOPMENT

## 5.1 Introduction

Going to discuss about the development part of this system, the chapter will contain about interaction design and implementation of the system. The implementation requirement also discusses in this chapter.

## 5.2 Interaction Design and User Experience (UX)User Home page

- Registration
- Login
- Admission.
- Teachers.
- Academic.
    - Daily attendance
    - Class routine
    - Syllabus
    - Class room
    - Department
    - Subject
    - Event calendars etc.
- About us,
- Contact
- Information
- Teacher’s profile
- Accounting
    - Student fee manager,
    - Expense category,

- Expense manager.

- Settings
    - System setting,
    - payment setting and
    - College settings

### 5.3 Implementation Requirements

In any software development, people can use different Framework and languages. But the College Management System project is implemented in PHP framework Laravel. Programming language use to HTML5, CSS3, Java Script and PHP. Database used to MySQL [Ref-16].

- PHP Laravel Framework was used for this software development. Latest version of
- Laravel 9.0 used.
- MySQL was the database I used. We can use MySQL's storage, database, and authentication features without any problems. Server, website hosting, and other things are all managed by MySQL. I must integrate my project with MySQL [Ref-18].

#### 5.3.1 Functional Requirements-

❖ Dashboard

Superior dashboard with multiple first rate information and wedge

1. Function & Permission

Unlimited person position and Permission to assign user roles

2. Records

Manipulate and music all students' information

3. Student institution

Admin can create student's organization

Four. Figure statistics

Control and tune all discerns facts

Five. Instructor information

Control and tune all teachers' records

6. Person management

Whole consumer control with position and permission assignment

7. On-line payment

Stripe & Pay cash integrated with the control.

8. Grading system

There may be an advanced grading system incorporated in our gadget.

9. Examination management

Examination settings, grade, mark, time table and exam attendance can be managing through our examination

Control system.

10. Mark manage

Superior Marking gadget for users for you to provide and manage marks very easily

11. Mark percent

Multiple kind mark giving gadget like attendance mark, exam and so on. Those can be permit/disable via admin.

12. Import data

Bulk Import statistics the use of csv like student, customers, books, teachers, parents and so on.

13. Educational Settings

Users can control class, phase, routine, challenge & all instructional count number from academic phase

14. Venture

Instructors could make assignment for student and manipulate them easily

15. Attendance

A couple of consumer attendance like instructors, students & stuff. Teachers could make attendance for pupil and spot record of each scholar attendance

16. E-mail & SMS

Privileged users can send e-mail and SMS to any person or consumer organization

17. Note control

Privileged customers can announce notice

18. Syllabus

Teachers & Privileged users control elegance syllabus.

## 5.4 Conclusion

To make a discussion about the system requirements with how the system developed. Specification of the work describe in this chapter.

# CHAPTER 6

# IMPLEMENTATION AND TESTING

## 6.1 Introduction

After developed this system we make a discussion about how to implement the database and make testing the system with different methodology.

## 6.2 Implementation of Database

The most important part of this project was Database design. Where have to store users' information such as admission info, Results, organizational events, student attendance, student's fees etc. I choose MySQL for a database. MySQL interprets queries to generate an underlying structure, after which it performs a number of improvements. Rewriting the query, because the tables will be read by establishing the sequence, deciding which indexes to operate, and so on.

The software has been applied to a variety of projects, including data warehousing, online shopping, and logging. But an online database is the most common MYSQL application [Ref-18].

## 6.3 Implementation of Front-end Design

### 6.3.1 Full Home page view:

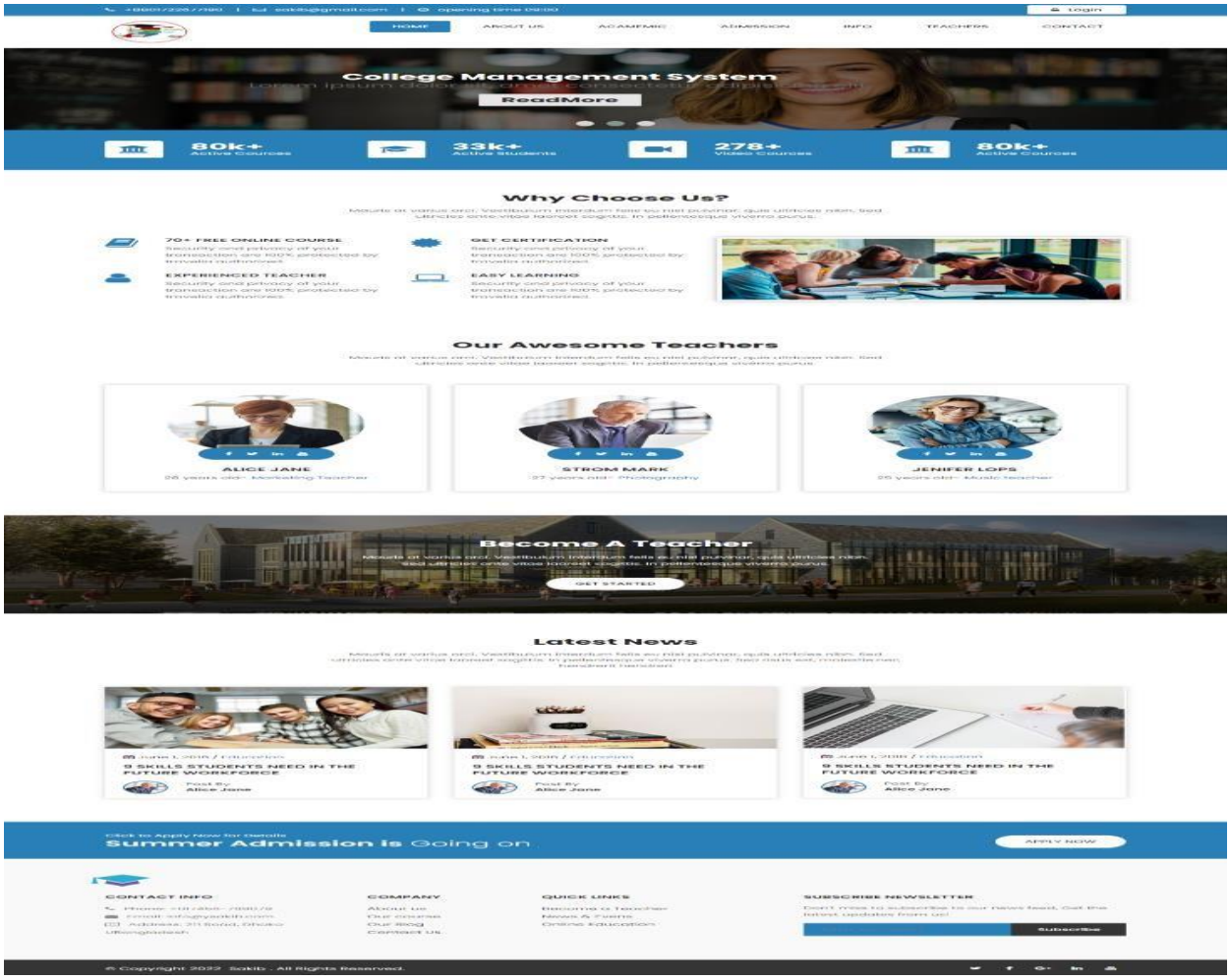


Figure 6.1 Full Home page view

### 6.3.2 Log in page:

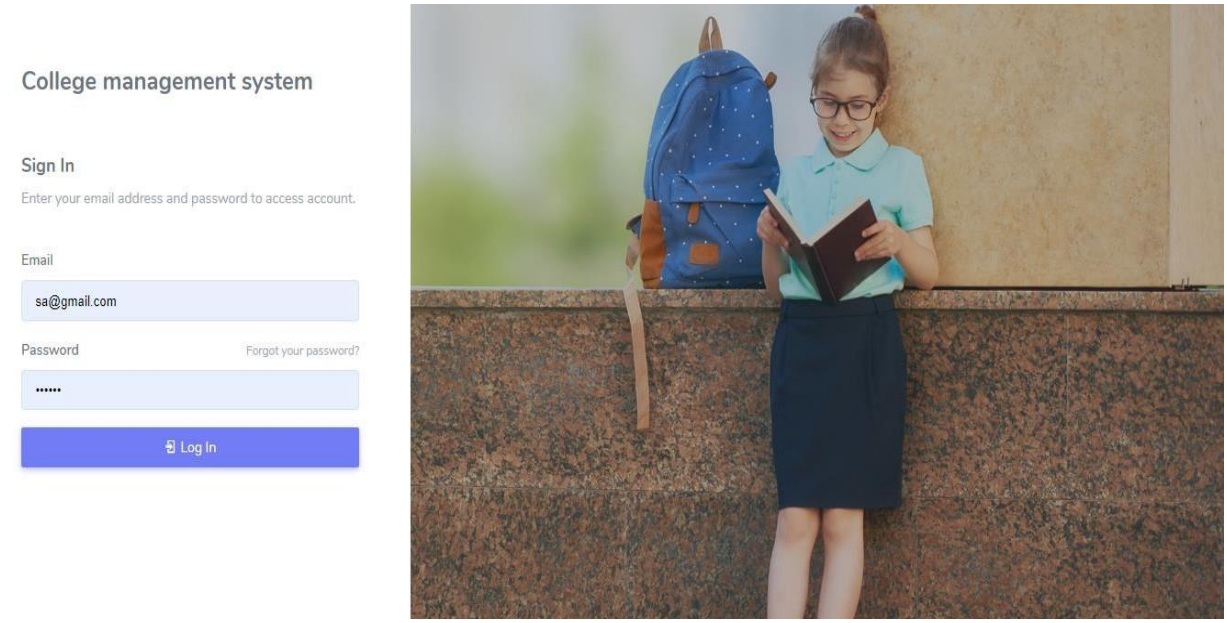


Figure 6.2 Login Page

### 6.3.3 Admin info:

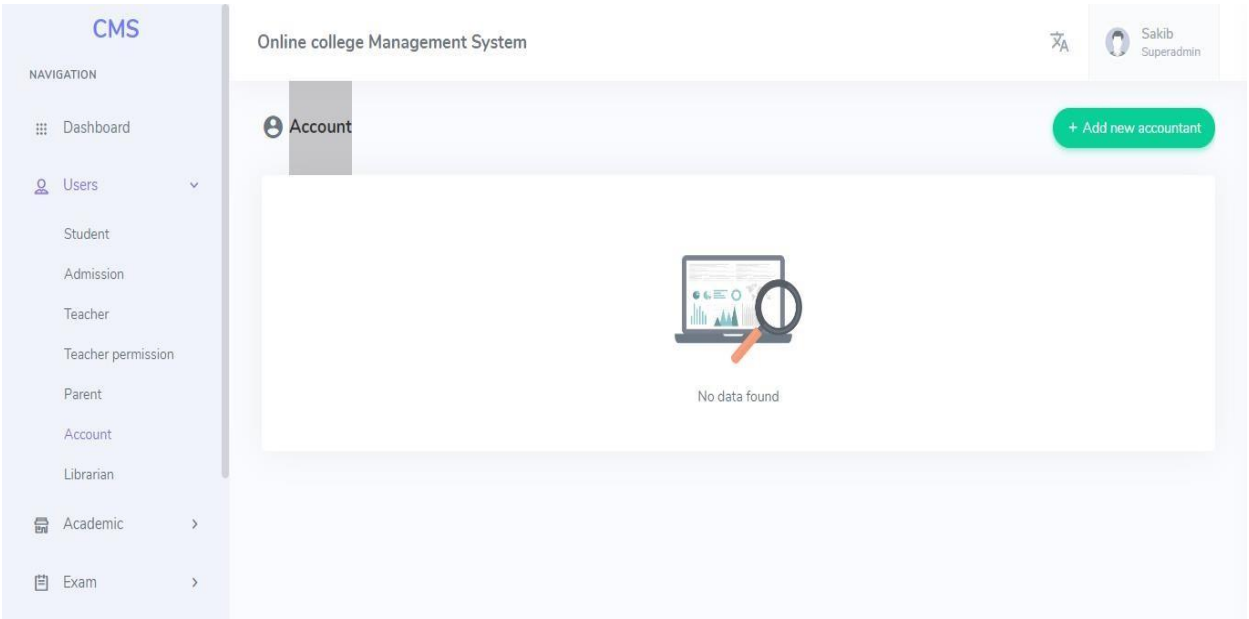


Figure 6.3 Admin Info

### 6.3.4 Dashboard page:

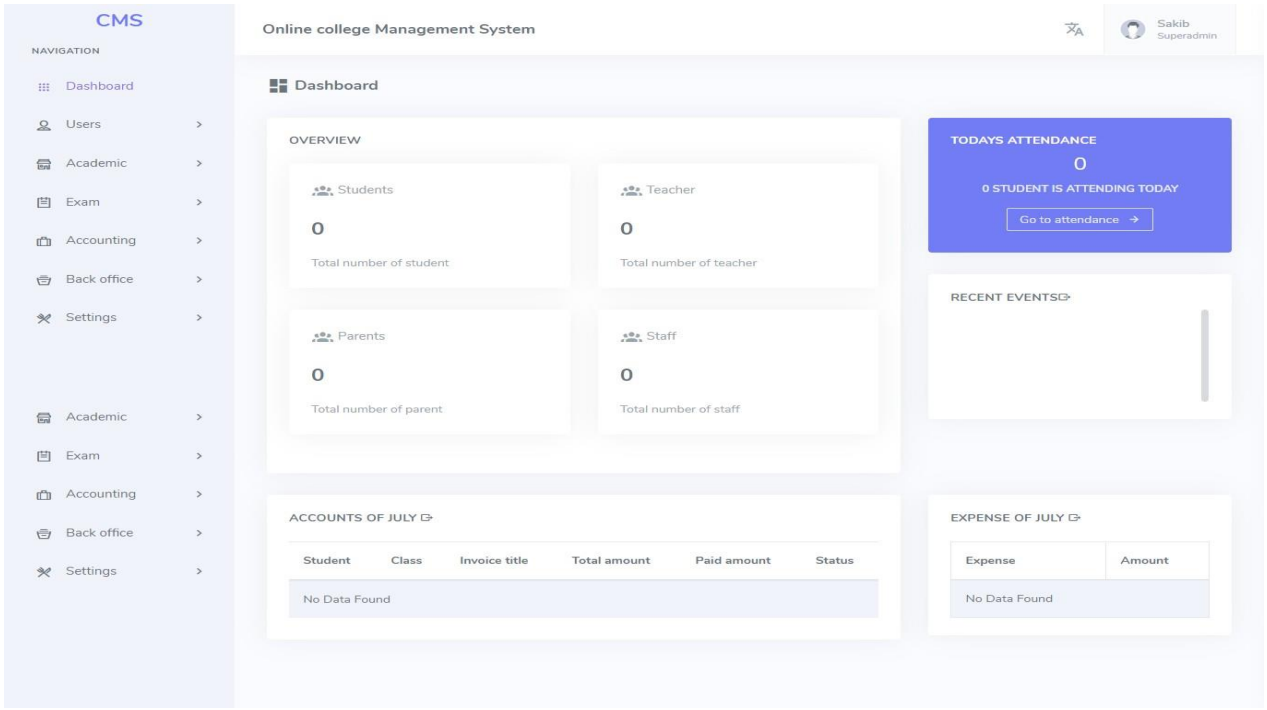


Figure 6.4 Dashboard Page

### 6.3.5 Student Registration form:

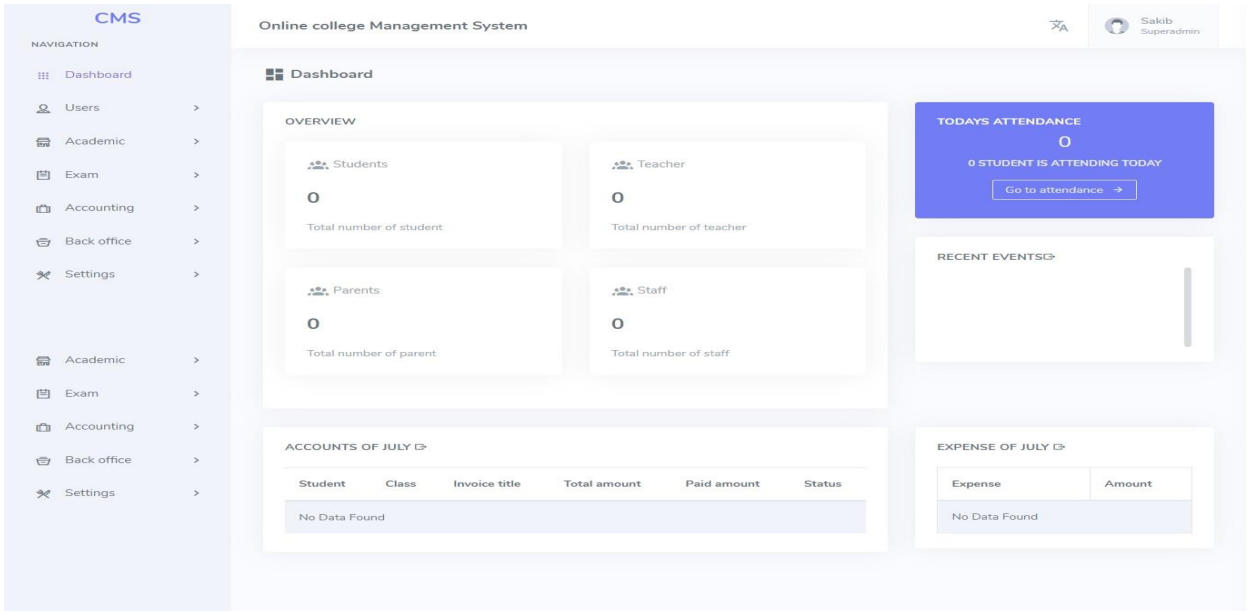


Figure 6.5 Student Registration form

### 6.3.6 New Teacher Registration:

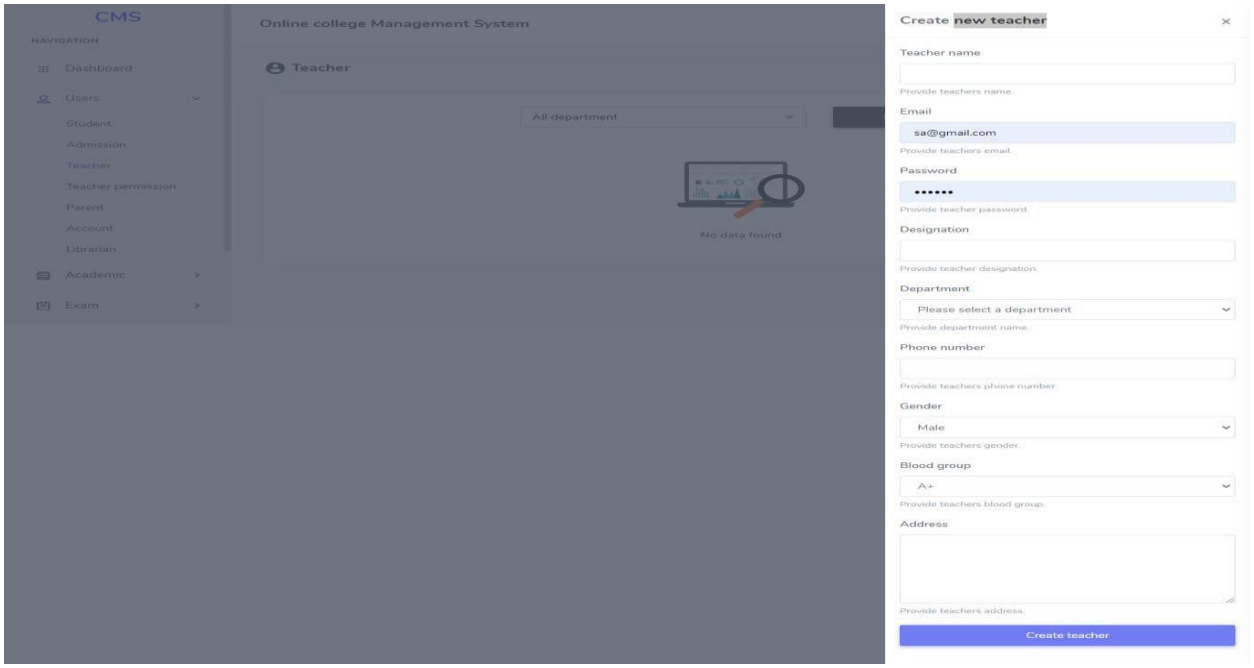


Figure 6.6 New Teacher Registration form

### 6.3.7 Parents Registration Form:

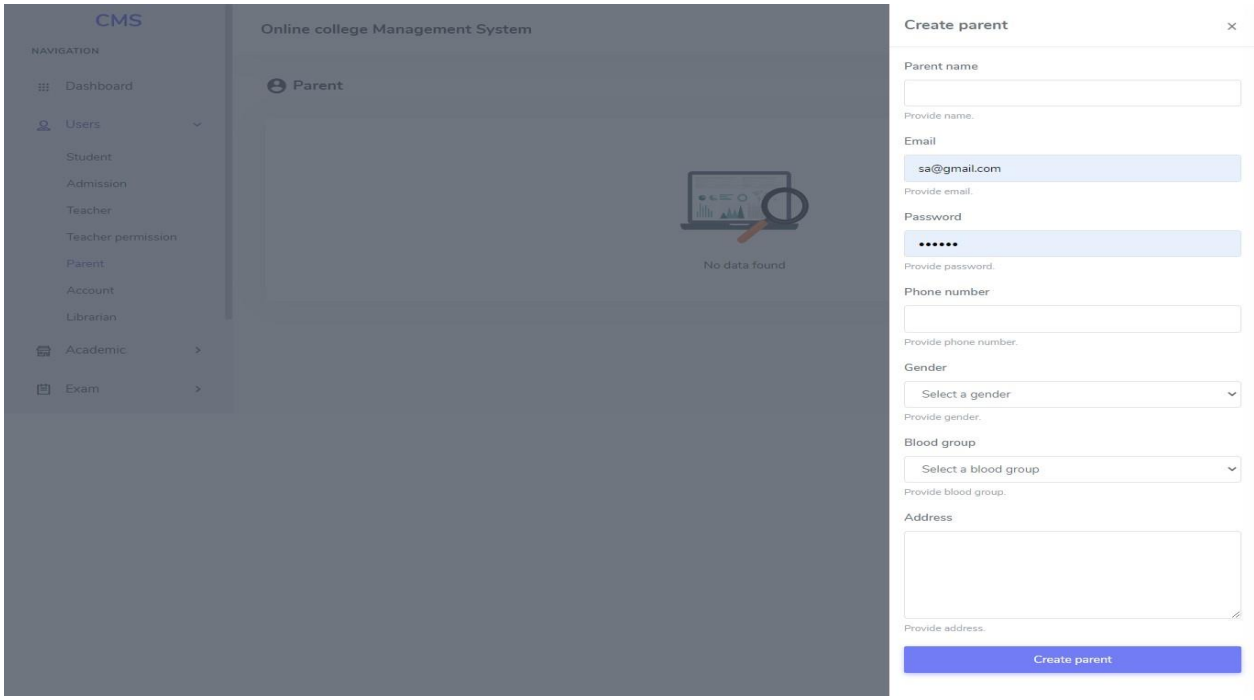


Figure 6.7 Parents Registration form

### 6.3.8 Student Admission Form:

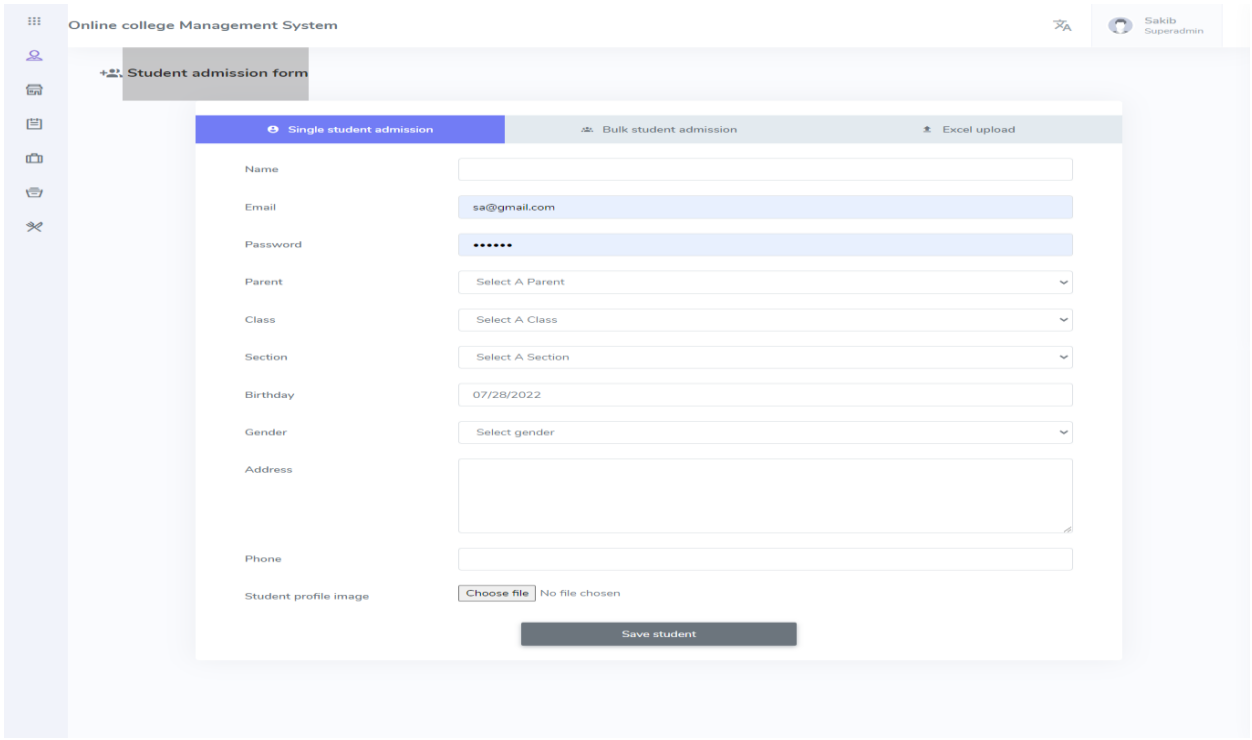


Figure 6.8 Student Admission form

### 6.3.9 Student Fees:

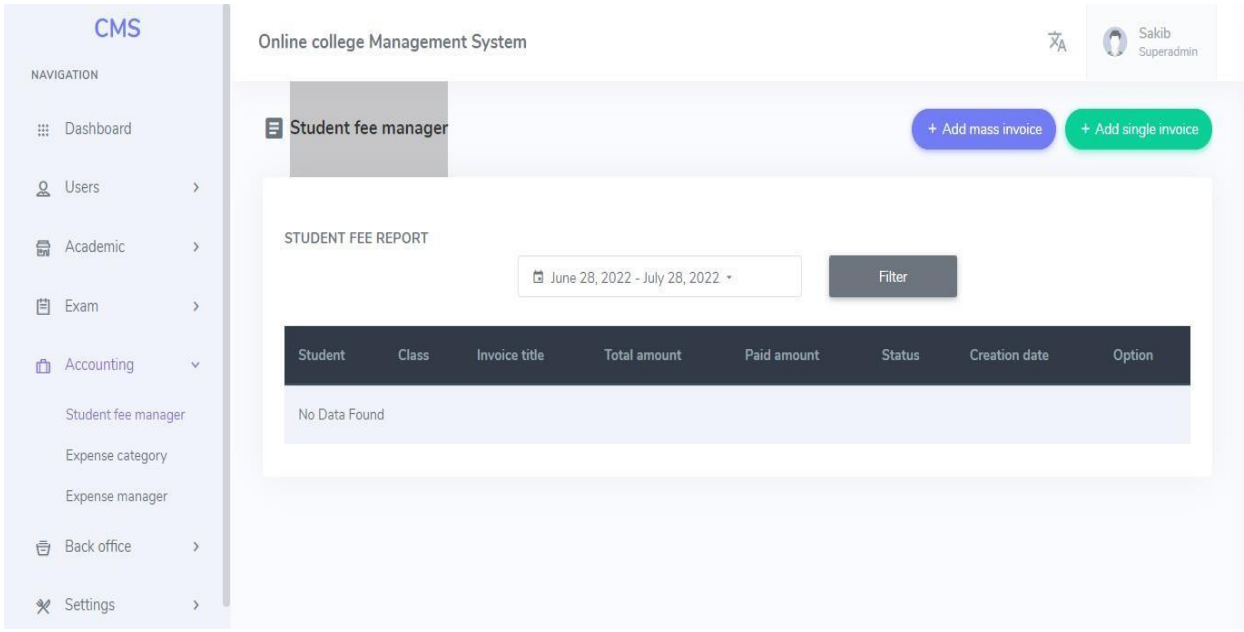


Figure 6.9 Student Fees

### 6.3.10 Add Routine:

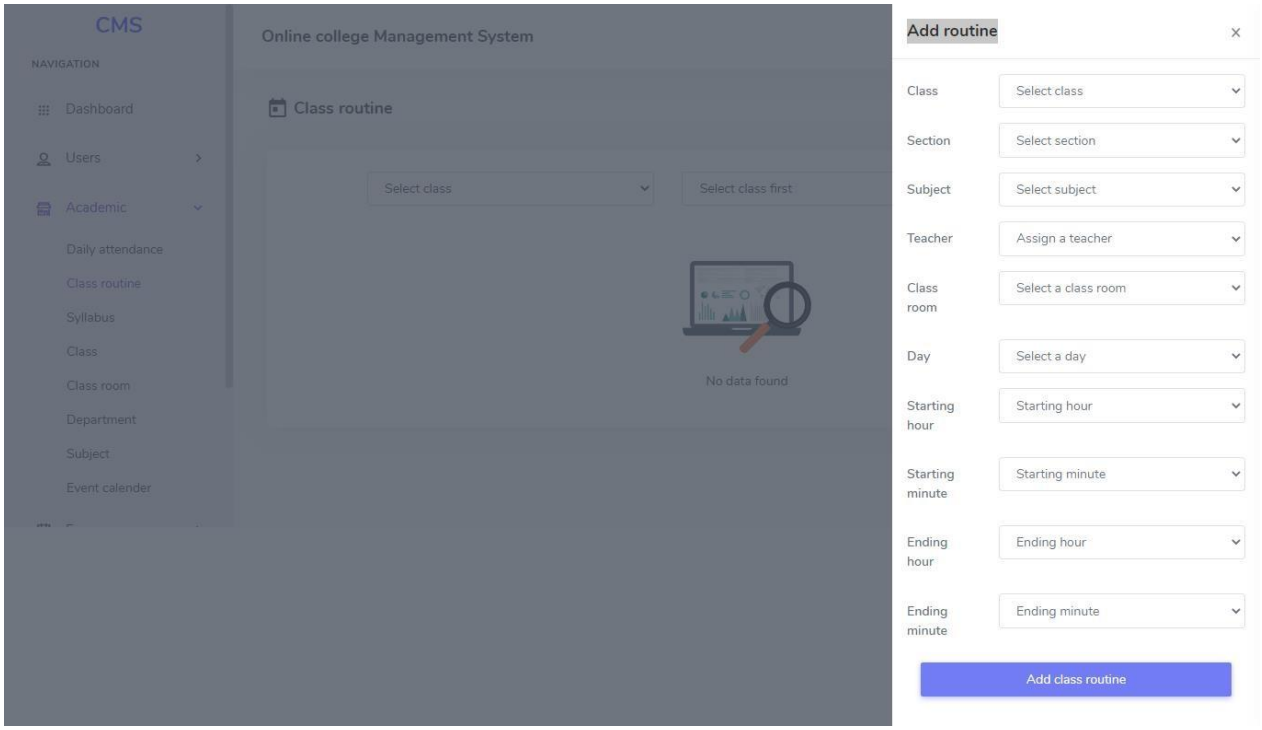


Figure 6.10 Add Routine

### 6.3.11 Syllabus:

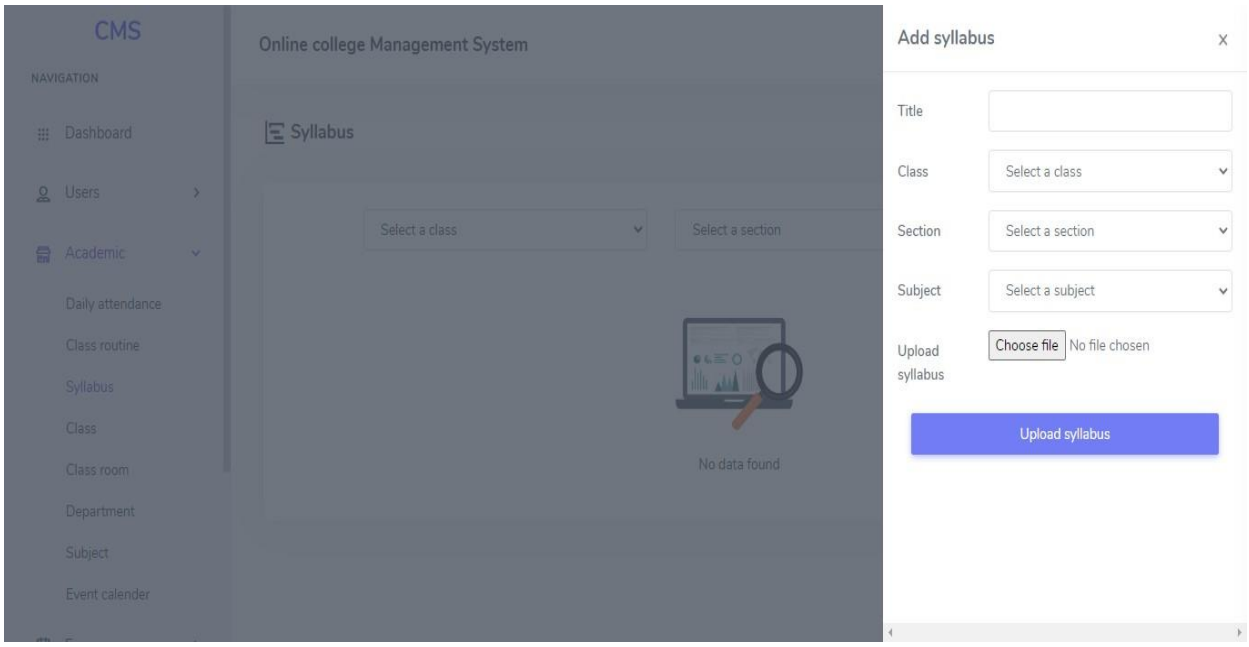


Figure 6.11 Syllabus

### 6.3.12 Manage Marks:

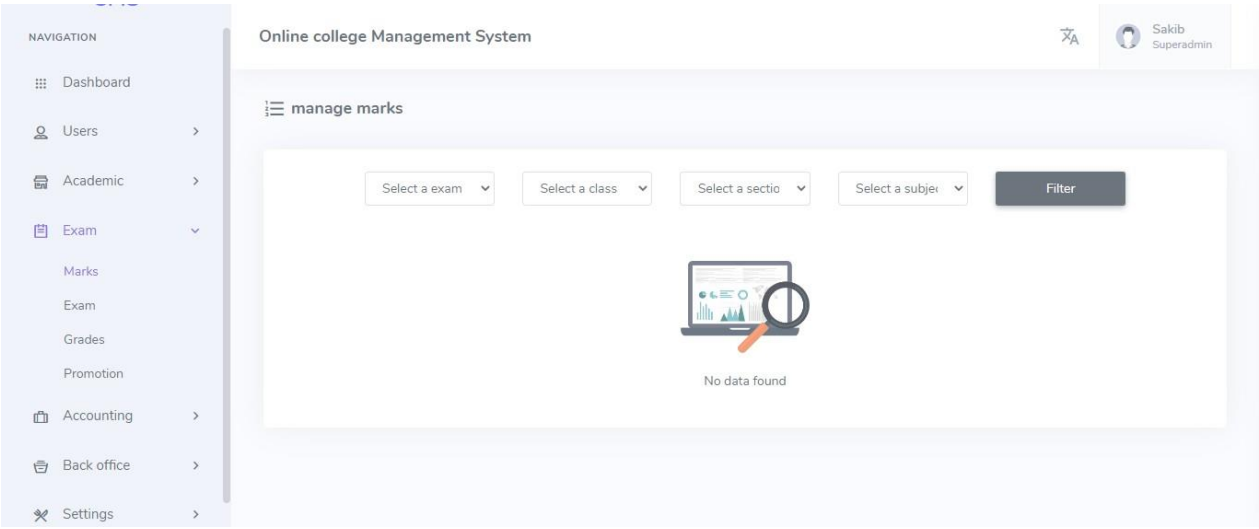


Figure 6.12 Manage Marks

### 6.3.13 Daily Attendance Page:

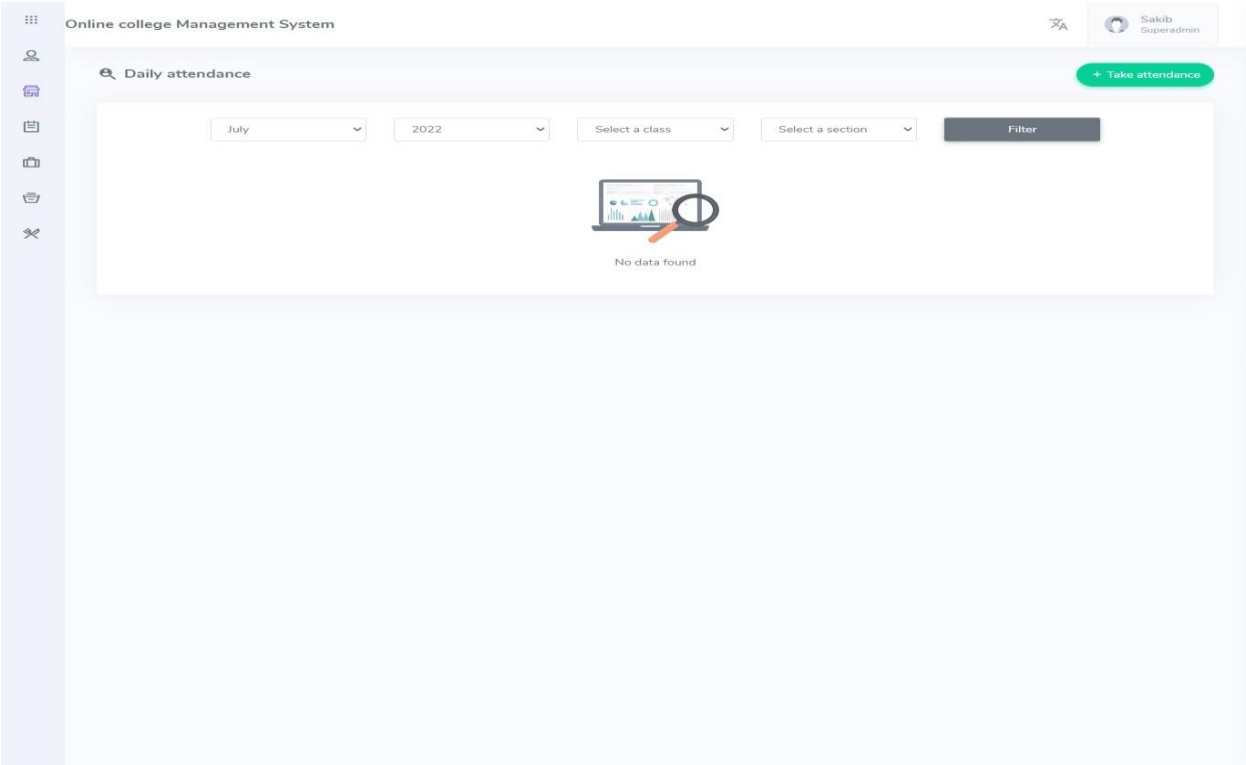


Figure 6.13 Daily Attendance Page

### 6.3.14 Department list:

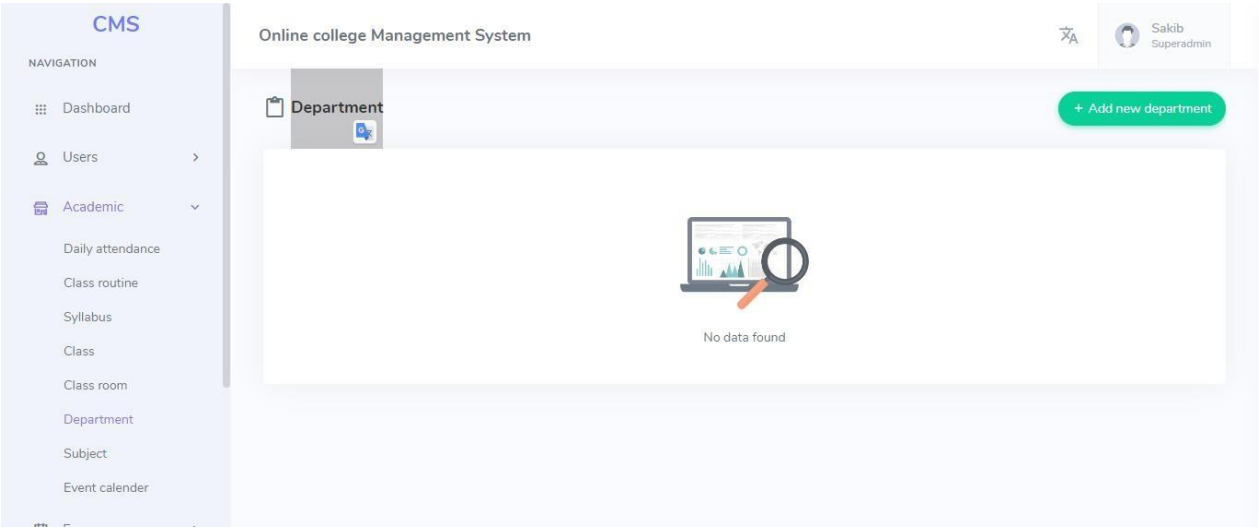


Figure 6.14 Department List

### 6.3.15 System Setting:

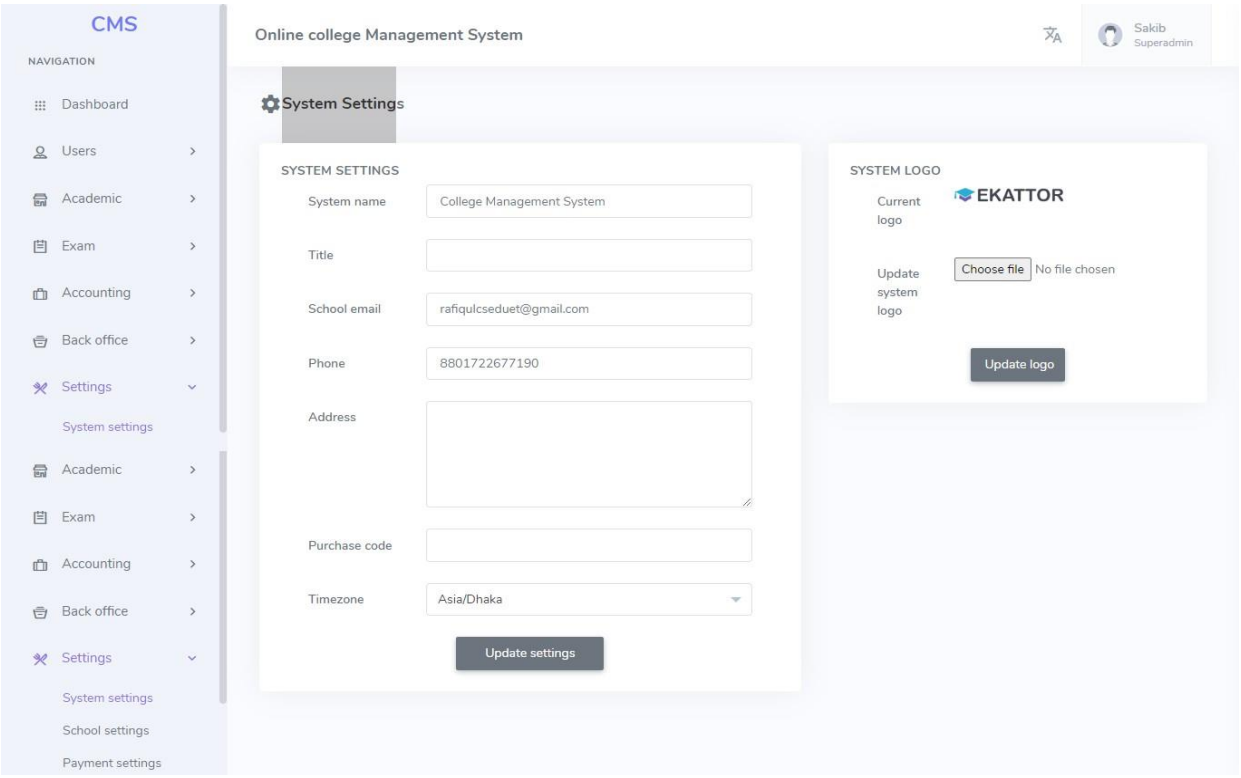


Figure 6.15 System Setting

### 6.3.17 Create accountant from:

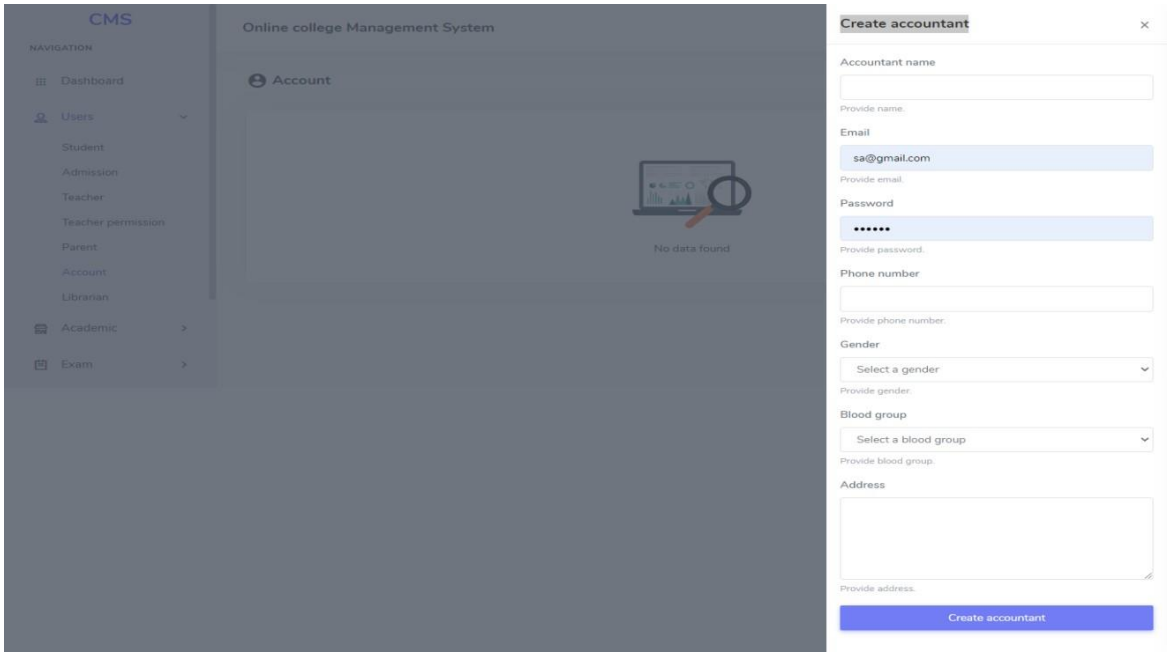


Figure 6.16 Create accountants from

### 6.3.18 Create librarian from

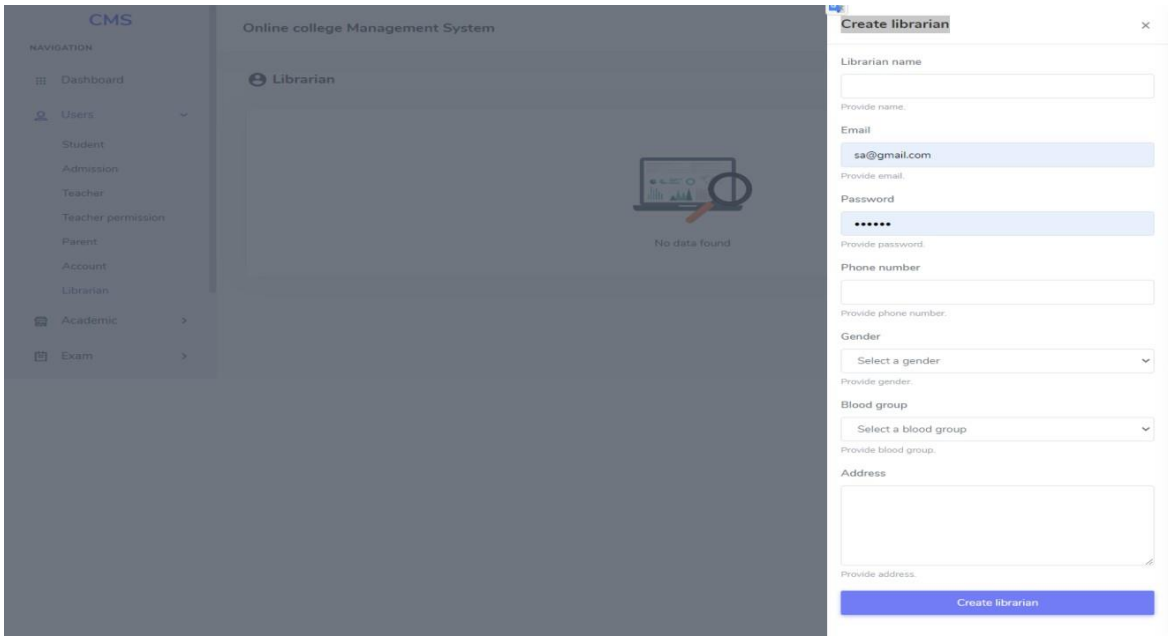


Figure 6.17 Create librarians from

### 6.3.19 Create New Grade

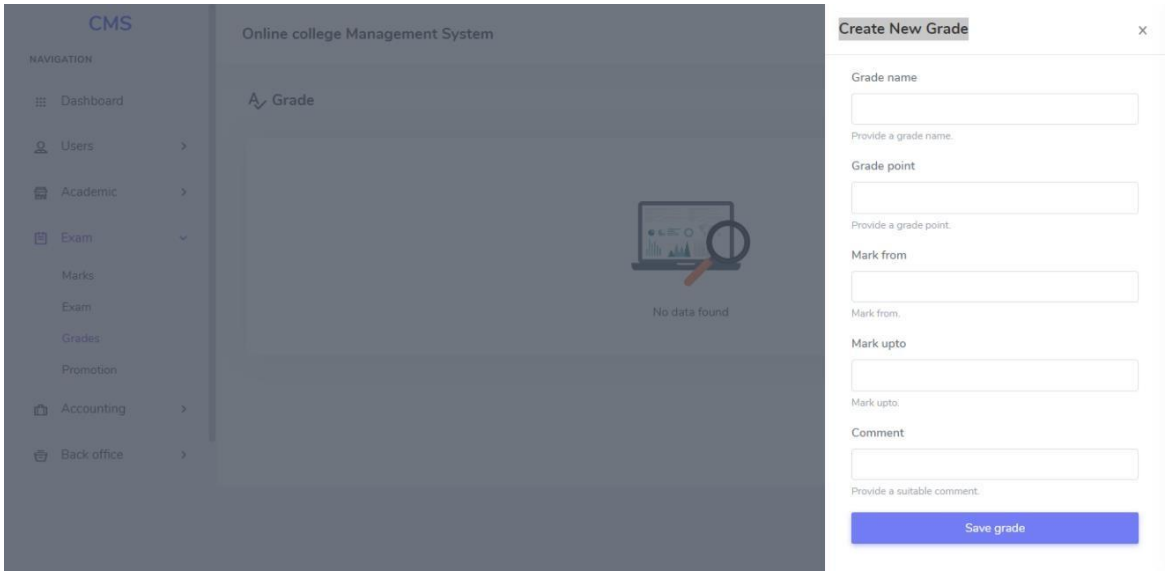


Figure 6.18 Create New Grade

### 6.3.20 Librarian page

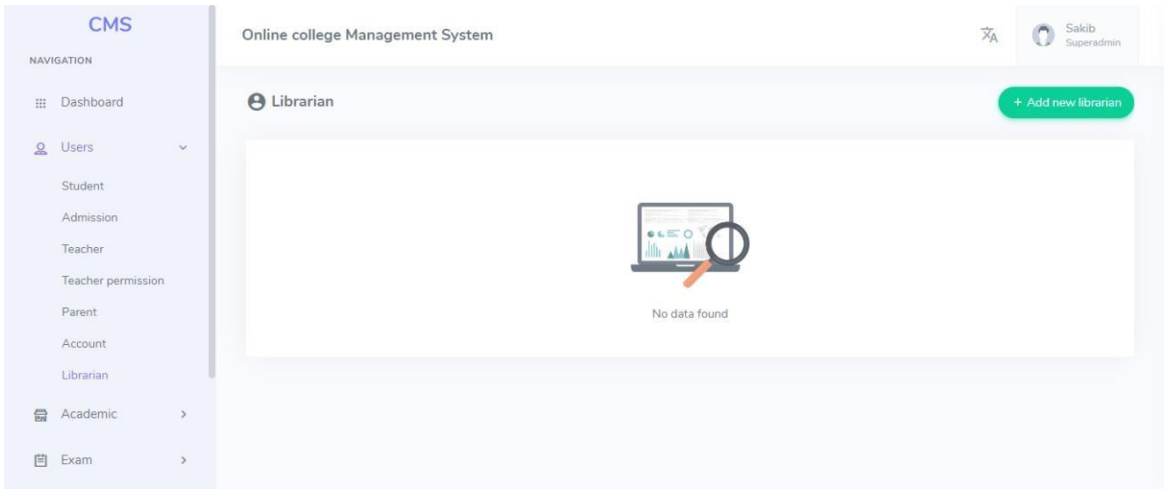


Figure 6.19 Librarian page

### 6.3.21 Account page

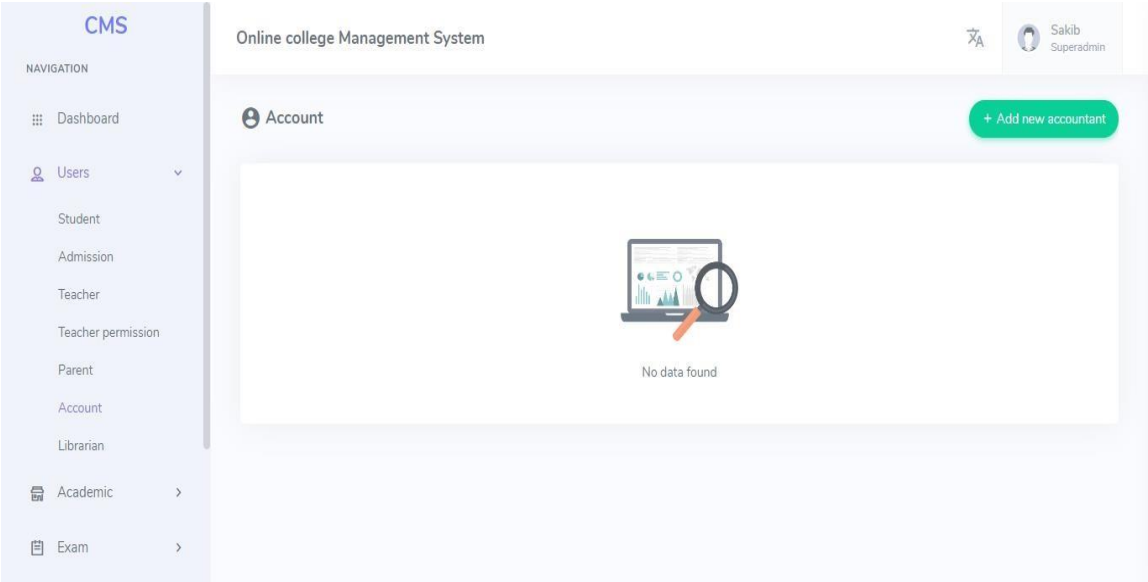


Figure 6.20 Account page

### 6.3.22 Add new subject

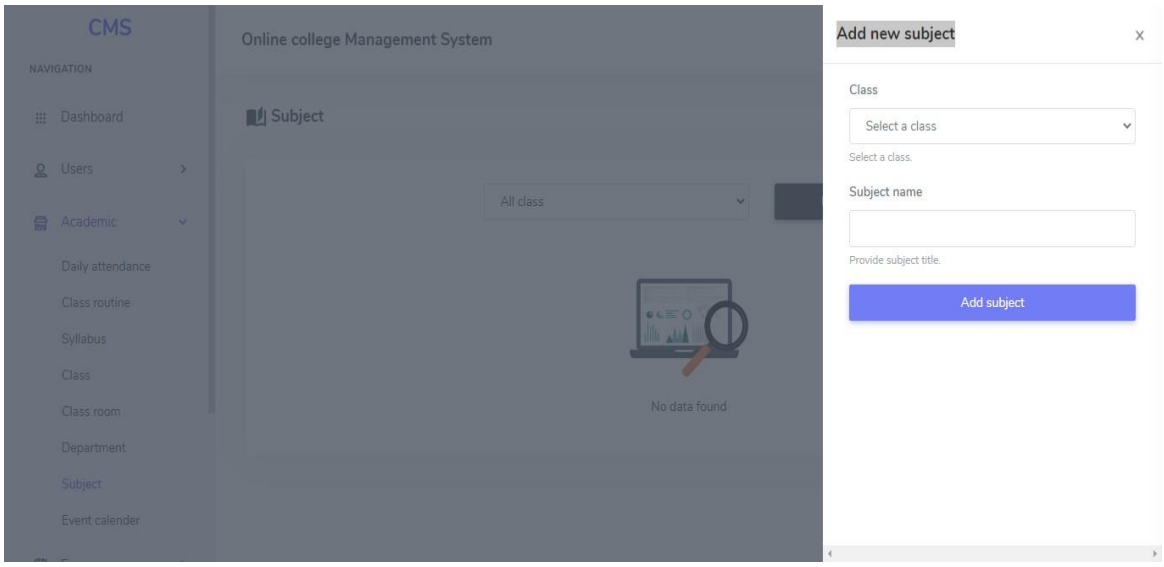


Figure 6.21 Add new Subjects

### 6.3.23 Subject list

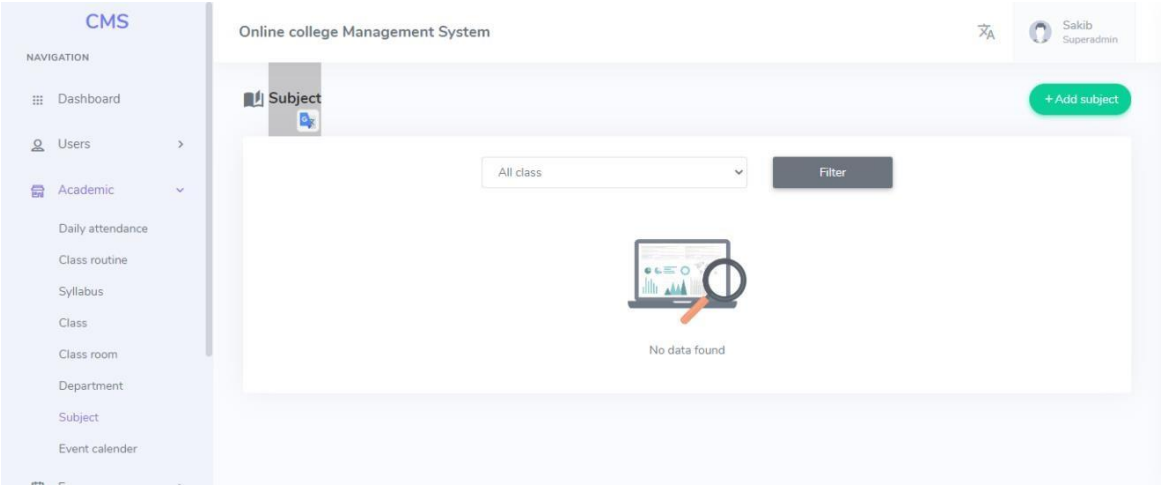


Figure 6.22 Subject list

### 6.3.24 library book list

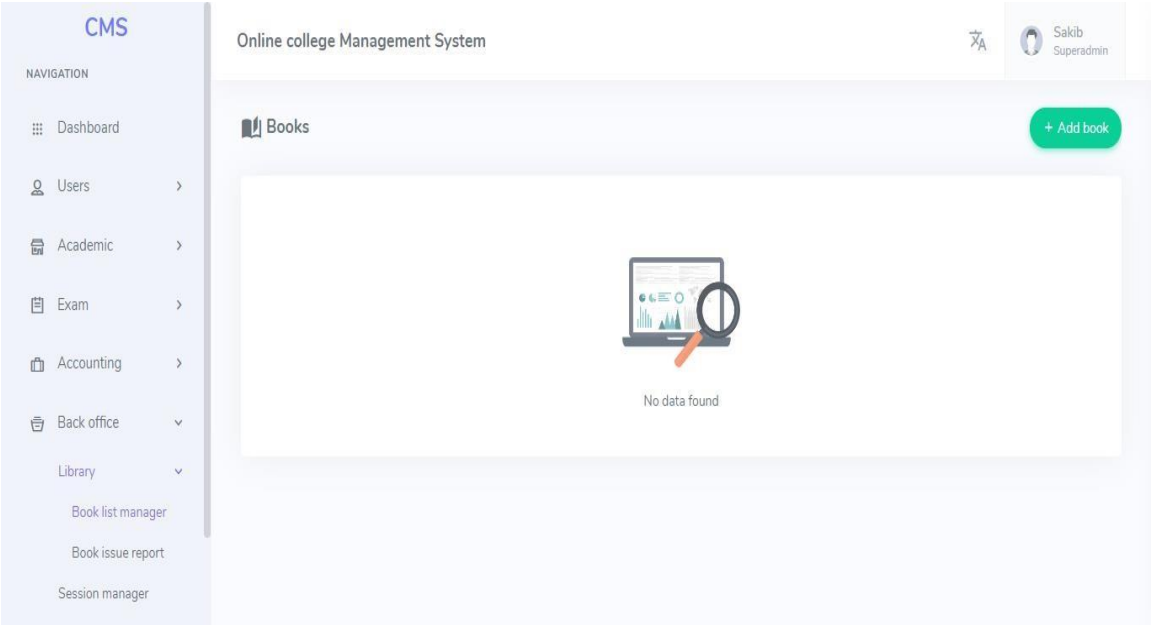


Figure 6.23 library book lists

### 6.3.25 Manage profile from

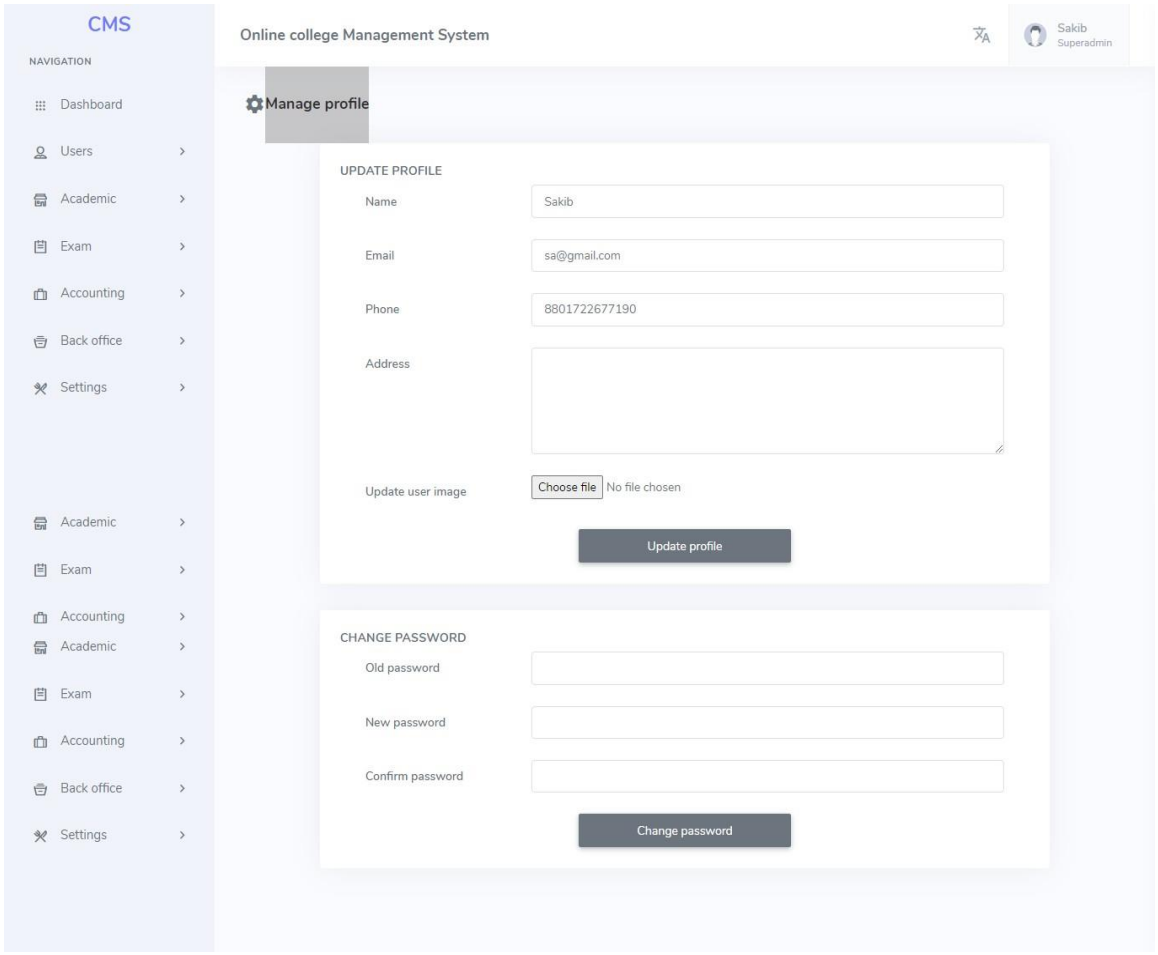


Figure 6.24 Manage profile from

### 6.3.16 Contact Page:

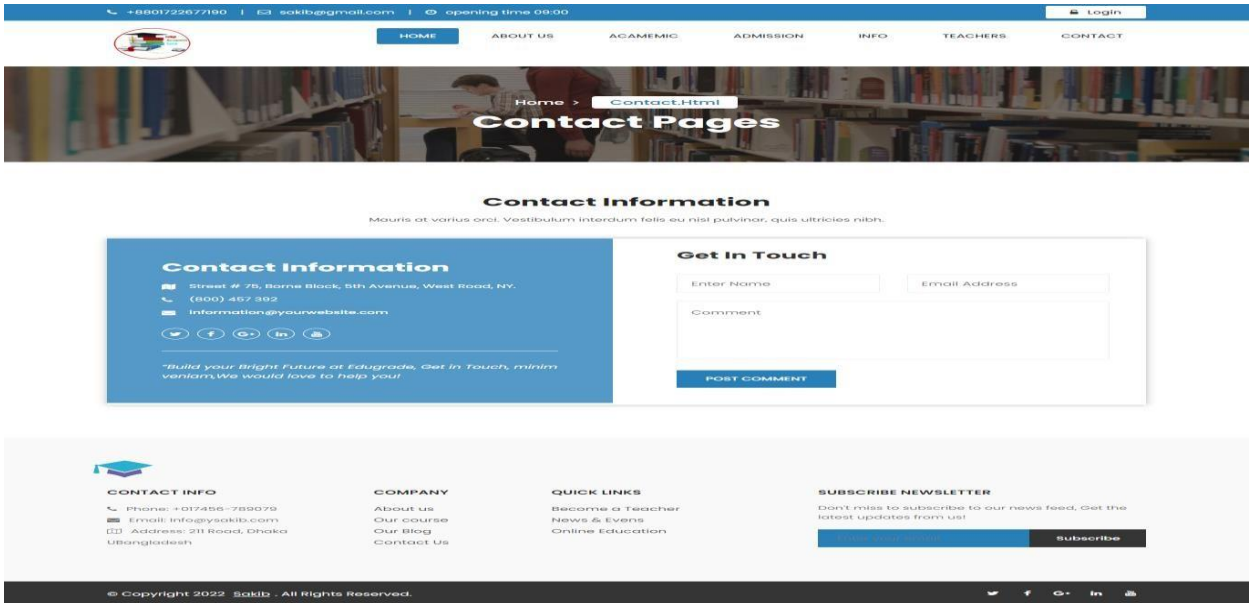


Figure 6.25 Contact Page

### 6.3.17 About us:

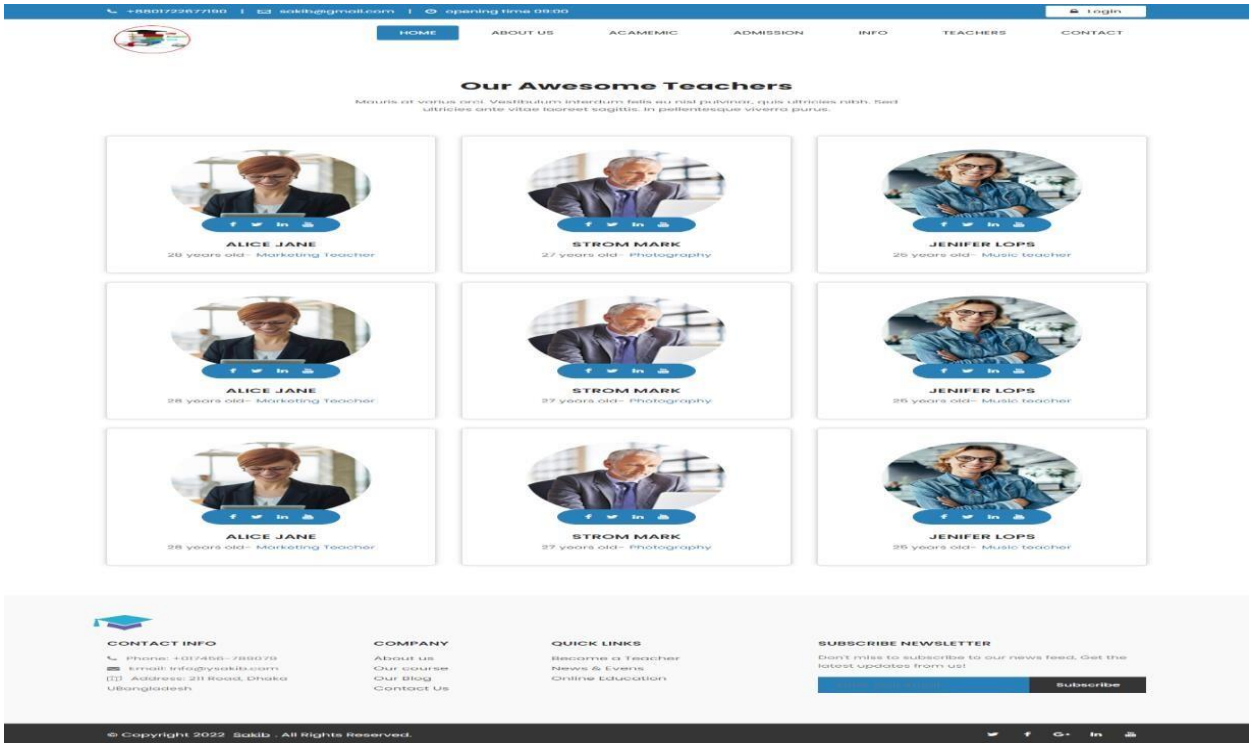


Figure 6.26 about Us

## 6.4 Testing

Trying out improves the integrity of a system via catching errors within the machine. Testing targets identifying errors-susceptible areas. This allows inside the precluding of errors in a gadget. Checking out makes the product extra treasured by means of conforming to the person requirements. After the implementation of the proposed gadget, we apply some styles of testing in an effort to make certain a success running of the proposed gadget. Types of Testing:

1. Unit Testing
2. Integration Testing
3. System testing
4. User Acceptance Testing

## 6.5 Conclusion

The chapter consists of implementation information with testing report. First the introduce how the implement the database. Then discuss about front end design implementation information and report viewing. Finally, provide the testing analysis data.

# CHAPTER 7

# CRITICAL APPRAISAL

## 7.1 Introduction

In this chapter going to discuss about critical appraisal in simple form swat. Four work strength, opportunity, weakness and threats called swat.

## 7.2 Strength

As the targeted people are in rural area to find uniqueness of this system. And also find this system will be more useful because of different thinking of work and development.

## 7.3 Weaknesses

After analyzing different scenario, to find most important negative impact of this project is to maintain the system with rural areas poor internet connection and availability of the connection.

## 7.4 Opportunities

To face a lot of problems during this project works. the research the website of this management system, saw that the maximum website just contains their official data, event schedules, exam routine, and common information, and so on. But those websites are very slow and doesn't give all the service of the college such as, Parents haven't any scope to monitor their children about their studies using these web applications to carefully noticed their reserving process and try to make them user friendly as much as possible

## 7.5 Threats

To face some major challenges for this project when it developed, mentioned bellow:

- Control admin and user parts
- Database management
- Eye catchy UX and UI design
- Security issue

## 7.6 Conclusion

The chapter focuses on swot analysis talk about this development. SWOT four definition of strength, opportunities, weakness and threats are discussion this chapter over the project development.

# CHAPTER 8

# CONCLUSION

## 8.1 Conclusion

The Research system is a key tool in this management process by providing continuous communication between principals, teachers, parents and students. To achieve this goal, you need a website that covers all your users' needs at the same time.

The principal has full control over the system and can add new parents, teachers and students to the subject. Teachers can add student grades, edit just their subject, and connect directly with students and parents.

This project is mainly used for university administration. The system allows users to manage student and teacher information and related activities. Students as teacher's view and update information. Teachers and administrators handle administrative information.

Overall system helps the university manage student and administrative information, and students can also access information through the Internet.

## 8.2 Further suggested work:

To build it tried the best to make this website best user friendly and add as much feature as possible. But there still have some scope which could be available in future development.

- Live Class
- Better UI and UX design
- Used other language and hosting to make more responsive
- more secure system so the privacy of all the customers is ensured.

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# Appendix A

## Appendix A1 Coding of Frontend Index

```
@extends('layout.layout')
@section('content')

    <div class="owl-carousel owl-theme">
        <div class="slider slider-1" style="background:url('{{asset("frontend/images/slider/slider-1.png")}}');">
            <div class="slider-content">
                <h2>College Management System</h2>
                <p>Lorem ipsum dolor sit, amet consectetur adipisicing elit.</p>
                <button>ReadMore</button>
            </div>
        </div>
        <div class="slider slider-2"   style="background:url('{{asset("frontend/images/slider/slider-2.jpg")}}');">
            <div class="slider-content">
                <h2>College Management System</h2>
                <p>Lorem ipsum dolor sit, amet consectetur adipisicing elit.</p>
                <button>ReadMore</button>
            </div>
        </div>
        <div class="slider slider-3"  style="background:url('{{asset("frontend/images/slider/slider-1.png")}}');">
            <div class="slider-content">
                <h2>College Management System</h2>
                <p>Lorem ipsum dolor sit, amet consectetur adipisicing elit.</p>
                <button>ReadMore</button>
            </div>
        </div>
    </div>

            <!-- Fun Facts -->
            <div class="fun-facts">
                    <div class="container">
                            <div class="row">
                                    <div class="col-lg-3 col-md-3 col-12">
                                            <!-- Single Fact -->
                                            <div class="single-fact">
                                                    <i class="fa fa-institution"></i>
                                                    <div class="content">
```

## Appendix A2 Coding of Frontend Contact Blade

File Edit Format View Help

```
@extends('layout.layout')
@section('content')
    <section class="breadcrumbs overlay">
        <div class="container">
            <div class="row">
                <div class="col-12">
                    <ul class="bread-list">
                        <li><a href="{{route('home')}}">Home<i class="fa fa-angle-right"></i></a></li>
                        <li class="active"><a href="{{route('contact')}}">contact.html</a></li>
                    </ul>
                    <h2>Contact Pages</h2>
                </div>
            </div>
        </div>
    </section>
    <section id="contact" class="contact section">
        <div class="container">
            <div class="row">
                <div class="col-12">
                    <div class="section-title">
                        <h2><span>Contact</span> Information</h2>
                        <p>Mauris at varius orci. Vestibulum interdum felis eu nisl pulvinar, quis ultricies nibh.</p>
                    </div>
                </div>
            </div>
        </div>
        <div class="container">
            <div class="contact-head">
                <div class="row">
                    <div class="col-lg-6 col-md-6 col-12">
                        <div class="info overlay">
                            <div class="info-inner">
                                <h2 class="title">Contact Information</h2>
                                <div class="single-info">
                                    <div class="icon"><i class="fa fa-map"></i></div>
                                    <div class="content">
```

## Appendix A3 Coding of Frontend Teacher

```
@extends('layout.layout')
@section('content')
    <!-- Team -->
    <section class="team section">
        <div class="container">
            <div class="row">
                <div class="col-12">
                    <div class="section-title">
                        <h2>Our Awesome <span>Teachers</span></h2>
                        <p>Mauris at varius orci. Vestibulum interdum felis eu nisl pulvinar, quis ultricies nibh. Sed ultricies ante vitae laoreet sagittis. In pellent
                    </div>
                </div>
            </div>
            <div class="row">
                <div class="col-lg-4 col-md-4 col-12">
                    <!-- Single Team -->
                    <div class="single-team">
                        <img src="{{asset('frontend/images/team/team1.png')}}" alt="#">
                        <div class="team-content">
                            <ul class="social">
                                <li><a href="#"><i class="fa fa-facebook"></i></a></li>
                                <li><a href="#"><i class="fa fa-twitter"></i></a></li>
                                <li><a href="#"><i class="fa fa-linkedin"></i></a></li>
                                <li><a href="#"><i class="fa fa-youtube"></i></a></li>
                            </ul>
                            <h4>alice jane</h4>
                            <p>28 years old-<span>Marketing Teacher</span></p>
                        </div>
                    </div>
                    <!--/ End Single Team -->
                </div>
                <div class="col-lg-4 col-md-4 col-12">
                    <!-- Single Team -->
                    <div class="single-team">
                        <img src="{{asset('frontend/images/team/team2.png')}}" alt="#">
                        <div class="team-content">
```

## Appendix A4 Coding of Backend Admin Dashboard

```
@extends('backend.layout.main')
@section('content')

    <!-- start page title -->
    <div class="row">
        <div class="col-12">
            <div class="page-title-box">
                <div class="page-title-right">
                    <form class="form-inline">
                        <div class="form-group">
                            <div class="input-group">
                                <input type="text" class="form-control form-control-light" id="dash-daterange">
                                <div class="input-group-append">
                                        <span class="input-group-text bg-primary border-primary text-white">
                                            <i class="mdi mdi-calendar-range font-13"></i>
                                        </span>
                                </div>
                            </div>
                        </div>
                        <a href="javascript: void(0);" class="btn btn-primary ml-2">
                            <i class="mdi mdi-autorenew"></i>
                        </a>
                        <a href="javascript: void(0);" class="btn btn-primary ml-1">
                            <i class="mdi mdi-filter-variant"></i>
                        </a>
                    </form>
                </div>
                <h4 class="page-title">Dashboard</h4>
            </div>
        </div>
    </div>
    <!-- end page title -->

    <div class="row">
        <div class="col-xl-5">
```

## Appendix A5 Coding of Backend Super Admin

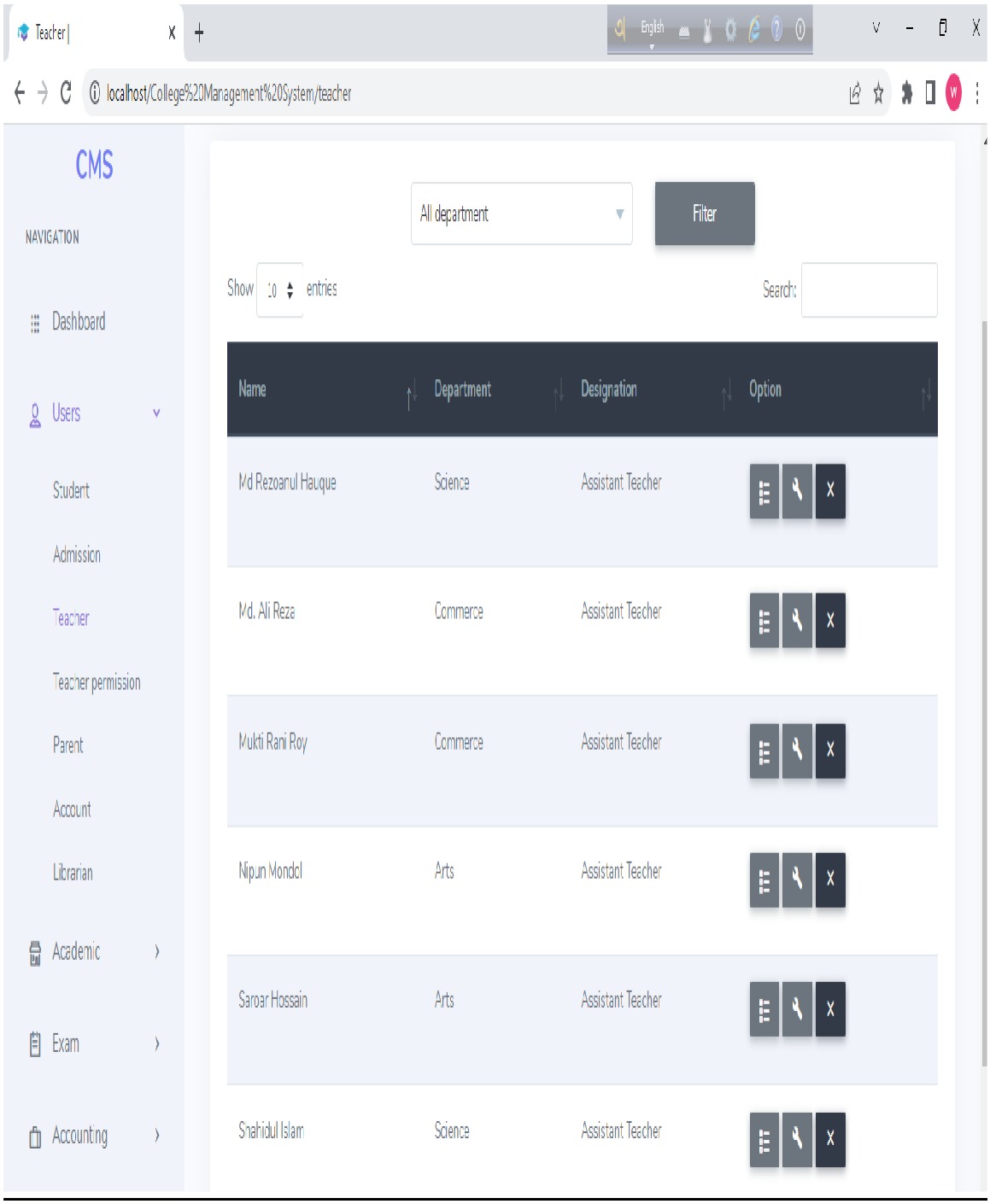
```
@extends('backend.layout.main')
@section('content')
    <!-- start page title -->
    <div class="row">
        <div class="col-12">
            <div class="page-title-box ">
                <h4 class="page-title"> <i class="mdi mdi-view-dashboard title_icon"></i> {{ translate('dashboard') }} </h4>
            </div>
        </div>
    </div>
    <!-- end page title -->

    <div class="row ">
        <div class="col-xl-12">
            <div class="row">
                <div class="col-xl-8">
                    <div class="card">
                        <div class="card-body">
                            <h4 class="header-title mb-3">{{ translate('overview') }}</h4>
                            <div class="row">
                                <div class="col-lg-6">
                                    <div class="card widget-flat" id="student" style="on">
                                        <div class="card-body">
                                            <div class="float-right">
                                                <i class="mdi mdi-account-multiple widget-icon"></i>
                                            </div>
                                            <h5 class="text-muted font-weight-normal mt-0" title="Number of Student"> <i class="mdi mdi-account-group title_icon"></i>
                                            <h3 class="mt-3 mb-3">
                                                @php
                                                    $students = \App\Enroll::where(['session' => get_settings('running_session'), 'school_id' => school_id()])->get();
                                                    echo count($students);
                                                @endphp
                                            </h3>
                                            <p class="mb-0 text-muted">
                                                <span class="text-nowrap">{{ translate('total_number_of_student') }}</span>
                                            </p>
```

## Appendix A6 Coding of Backend Teacher

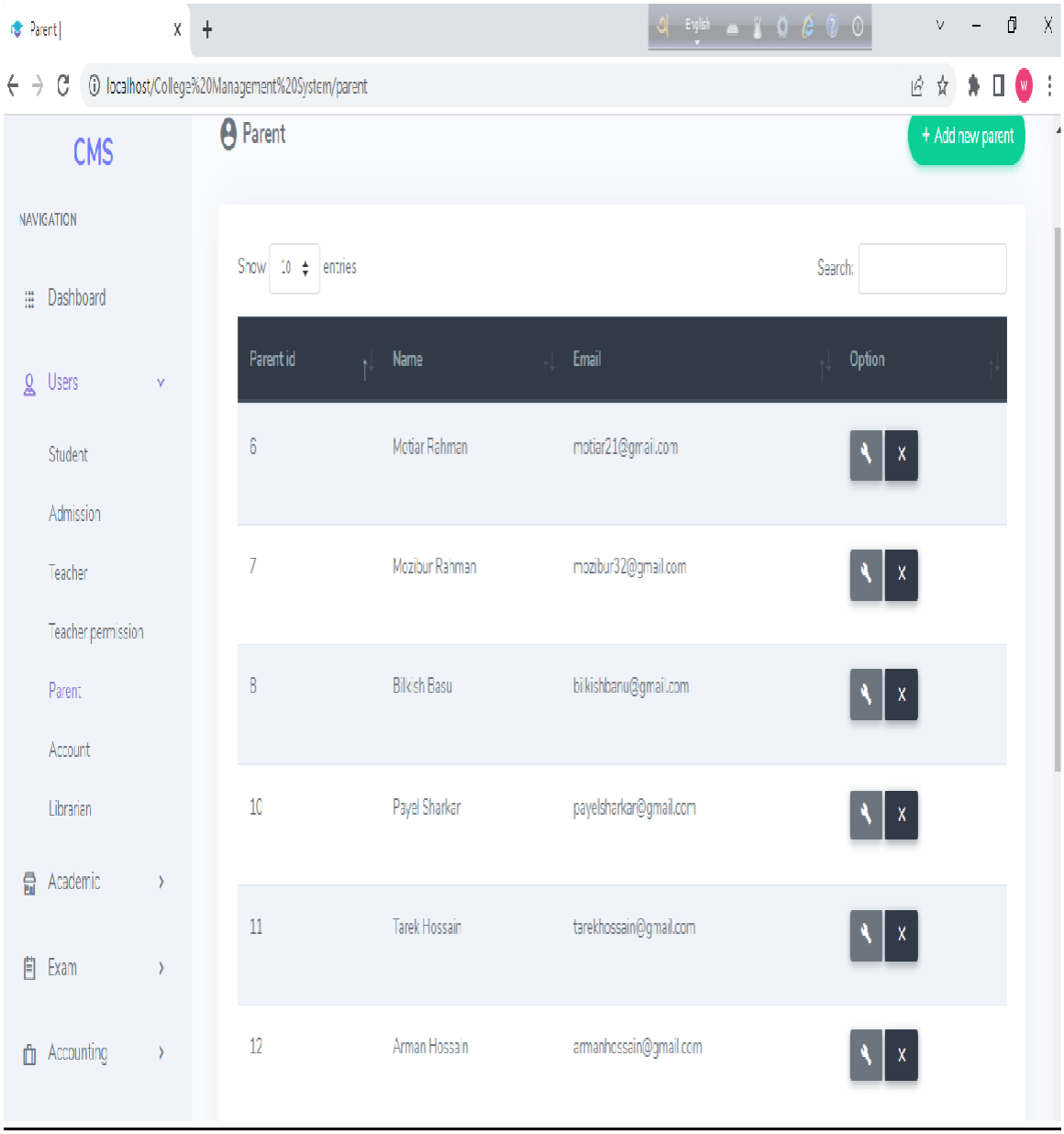
```
@extends('backend.layout.main')
@section('content')

    <!-- start page title -->
    <div class="row">
        <div class="col-12">
            <div class="page-title-box">
                <div class="page-title-right">
                    <form class="form-inline">
                        <div class="form-group">
                            <div class="input-group">
                                <input type="text" class="form-control form-control-light" id="dash-daterange">
                                <div class="input-group-append">
                                        <span class="input-group-text bg-primary border-primary text-white">
                                            <i class="mdi mdi-calendar-range font-13"></i>
                                        </span>
                                </div>
                            </div>
                        </div>
                        <a href="javascript: void(0);" class="btn btn-primary ml-2">
                            <i class="mdi mdi-autorenew"></i>
                        </a>
                        <a href="javascript: void(0);" class="btn btn-primary ml-1">
                            <i class="mdi mdi-filter-variant"></i>
                        </a>
                    </form>
                </div>
                <h4 class="page-title">Dashboard</h4>
            </div>
        </div>
    </div>
    <!-- end page title -->

    <div class="row">
        <div class="col-xl-5">
```

# Appendix B

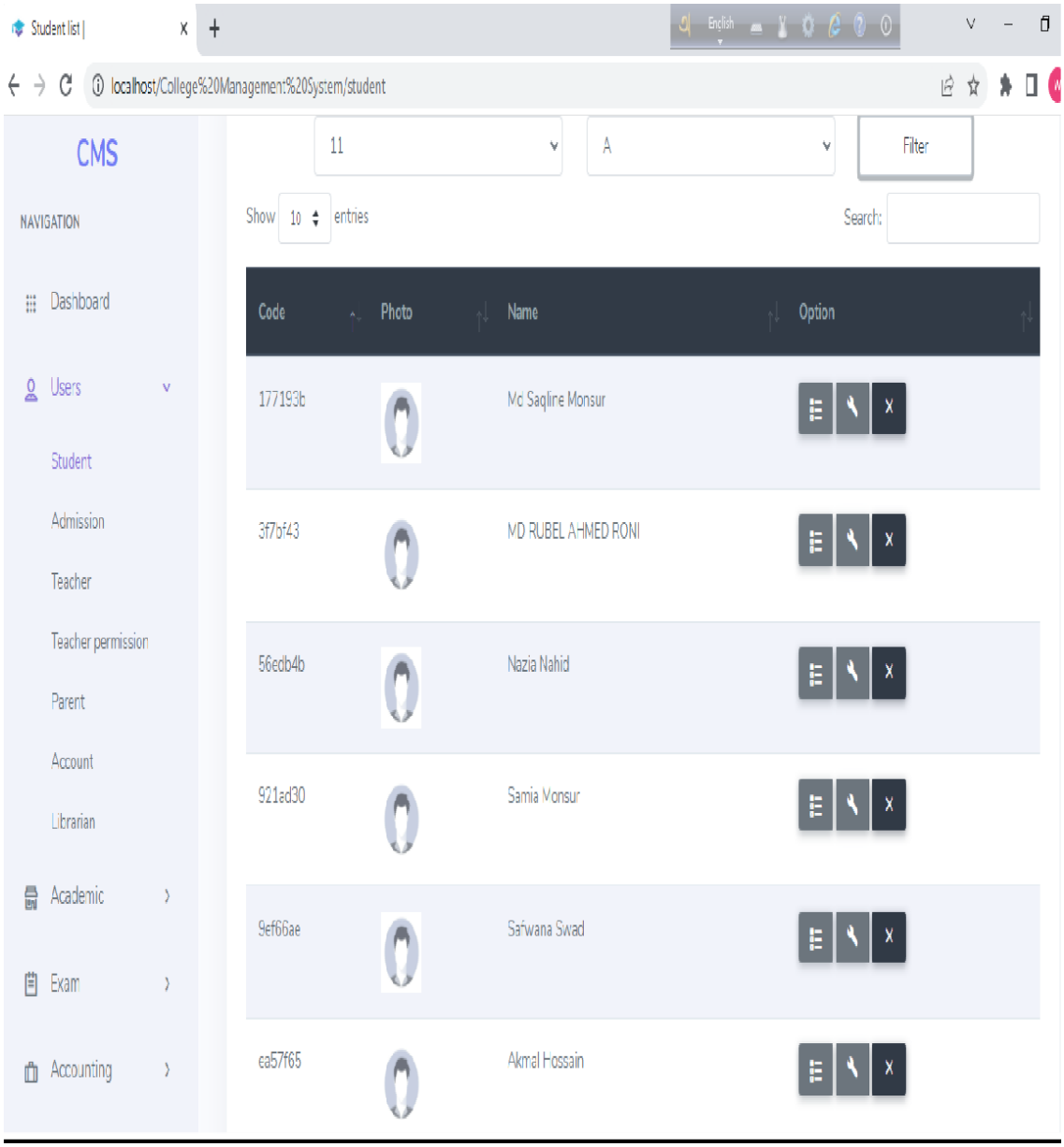
Appendix B1 Dashboard of Total Teacher List



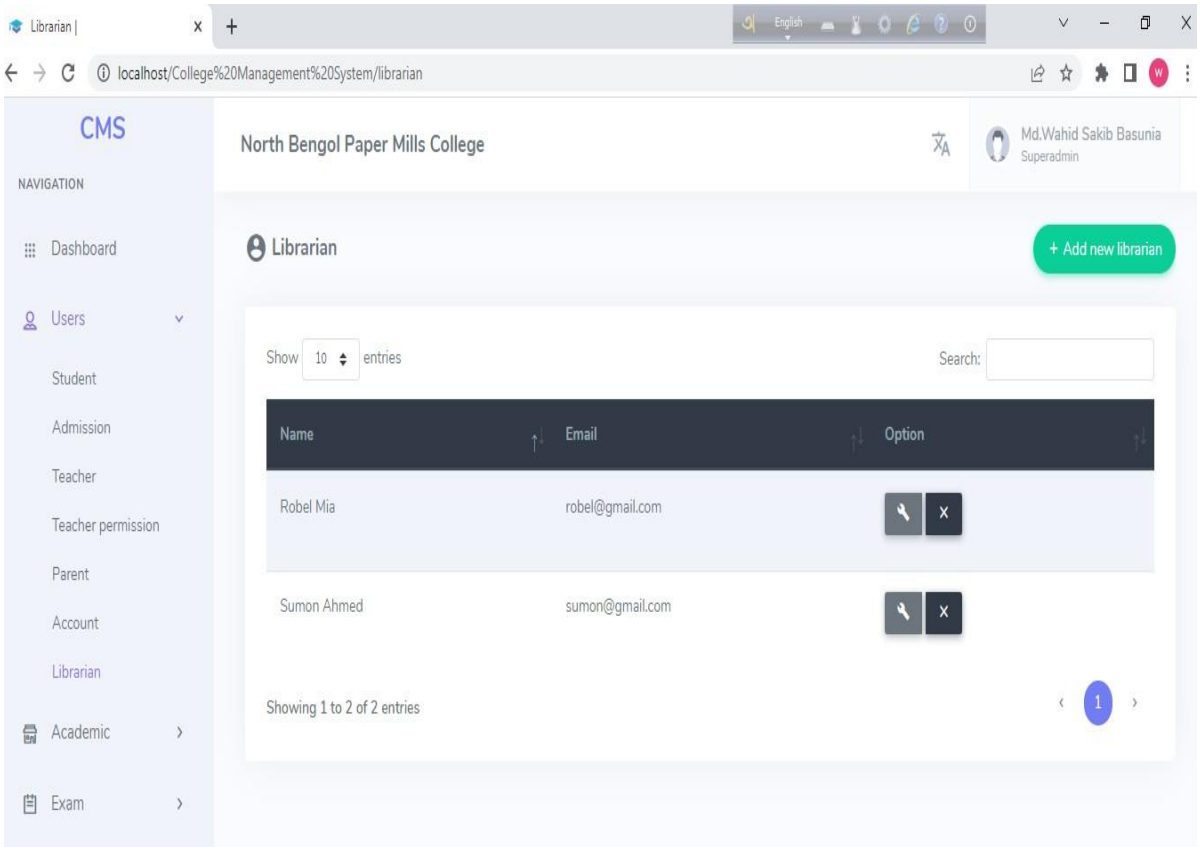
Appendix B2 Dashboard of Total Parents List



Appendix B3 Dashboard of Total Class 11 A Section List

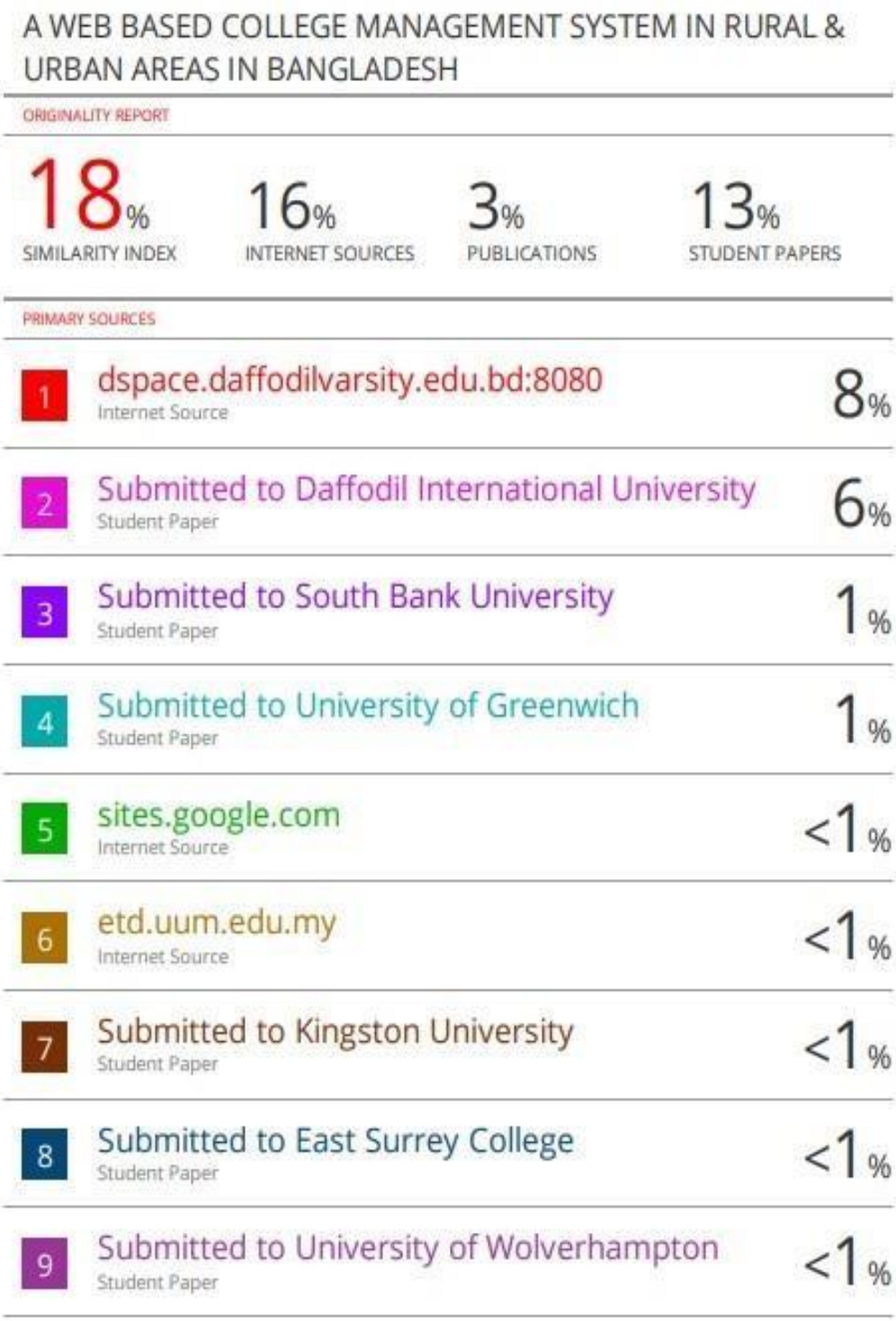


Appendix B4 Dashboard of Total Stuff List



# Appendix C

Appendix C1 Plagiarism Report of Page No 1



A WEB BASED COLLEGE MANAGEMENT SYSTEM IN RURAL & URBAN AREAS IN BANGLADESH

ORIGINALITY REPORT

| 18% | 16% | 3% | 13% |
|---|---|---|---|
| SIMILARITY INDEX | INTERNET SOURCES | PUBLICATIONS | STUDENT PAPERS |

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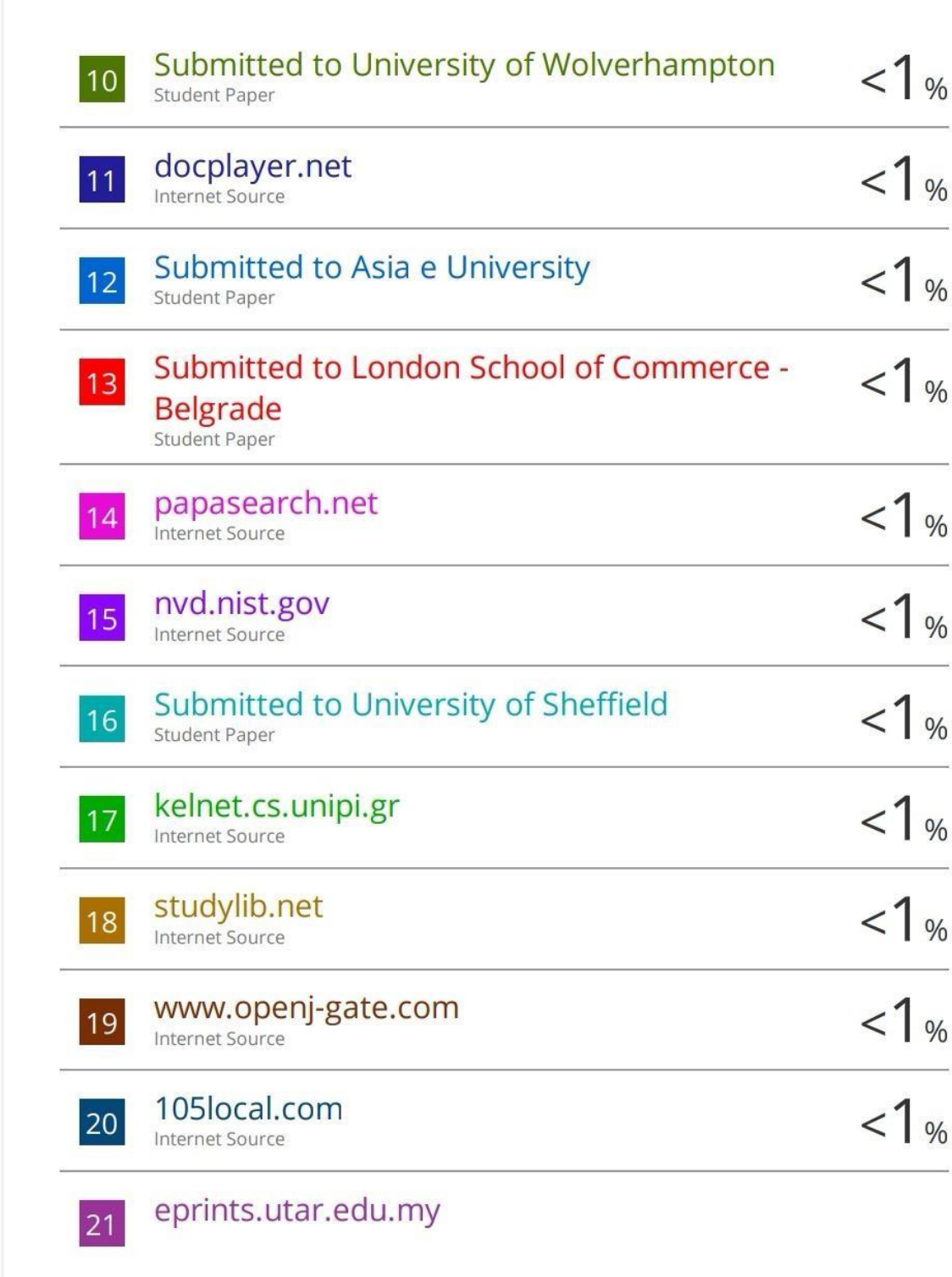
| 8 | Submitted to East Surrey College<br>Student Paper | <1% |
| 9 | Submitted to University of Wolverhampton<br>Student Paper | <1% |

Appendix C2 Plagiarism Report of Page No 2