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A

MINI PROJECT REPORT

ON

COLLEGE ERP SYSTEM

Submitted in partial fulfillment of the requirements for the degree of

Bachelor of Technology

In

Information Technology

By

Gaurav Patil (1954491246025)

Gayatri Bhosale (1954491246033)

Under the guidance

of

Prof. Rubi Mandal

DEPARTMENT OF INFORMATION TECHNOLOGY

SHRI VILE PARLE KELAWANI MANDAL'S

INSTITUTE OF TECHNOLOGY, DHULE

Survey No. 499, Plot No. 02, Behind Gurudwara, Mumbai-Agra National Highway, Dhule- 424001, Maharashtra, India.

Academic Year 2021-22

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Academic Year 2021-22

CERTIFICATE

This is to certify that the TY B.TECH. Mini Project Report Entitled

"COLLEGE ERP SYSTEM"

Submitted by

Gaurav Patil	(1954491246025)
Gayatri Bhosale	(1954491246033)

is a record of bonafide work carried out by him/her, under our guidance, in partial fulfillment of the requirement for the award of Degree of Bachelors of Technology (Information Technology) at Shri Vile Parle Kelawani Mandal's Institute of Technology, Dhule under the Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra. This work is done during semester VIII of the Academic year 2021-22.

Date:
Place: SVKM's IoT, Dhule

Prof. Rubi Mandal	Prof. Sachin Kamble	Dr. Bhushan Chaudhari	Dr. Nilesh Salunke
Project Guide	**Project Coordinator**	**HOD**	**Principal**
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Name and Sign with date
Examiner-1

Name and Sign with date
Examiner-2

II

DECLARATION

We declare that this written submission represents my ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will cause disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Signatures

Gaurav Patil (1954491246025) _____

Gayatri Bhosale (1954491246033) _____

III

ACKNOWLEDGMENTS

It gives us immense pleasure in expressing sincere sense of gratitude towards our project guide Prof. Ruby Mandal for the assistance, valuable guidance and co-operation in carrying out this Project successfully. It has been a privilege for us to have been associated with Dr. Bhushan Chaudhari, Head of Department, during our project work. We have greatly benefited from his valuable suggestions. Weexpress our deep sense of gratitude to him for his valuable guidance, constant encouragement and patience throughout this work.

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Names of Team Members:

1) Gaurav Patil
2) Gayatri Bhosale

IV

ABSTRACT

Faculty in a college must manage all information regarding students' attendance, exam results, and personal information. These records are kept by saving them in excel sheets and word documents. Teachers occasionally require data for a specific purpose. They are required to submit a weekly attendance report. To date, they have completed more time-consuming tasks. This project proposes a solution for efficiently completing all responsibilities while also saving time and reducing workload by analyzing the problems that faculty face. The main objectives of this project are to assist any department in maintaining and managing personal data as well as to exemplify the project's objectives for the College Information Management System. The Django framework was used to build the website (python). This embedded record management system connects daily college operations, from attendance management to report generation. This reduces data problems and assure that information is always accurate across the college. It offers a centralized data repository to streamline all processes and reporting requirements. It has a user interface that is simple to use. As a result, users are more productive and spend less time learning the system. Effective security features protect data privacy while increasing productivity and decreasing professor workload.

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1. Introduction

1.1 Introduction of project

Attendance is used to keep track of the number of students in a school, college, or other organization. It is an essential part of maintaining college discipline and providing quality education in schools and colleges, and if someone deviates from the required standards, appropriate action can be taken. Marks are used to keep track of students' performance, as well as to determine which category they fall into and how to improve their performance.

Most colleges currently use a teacher conducting a roll call or students passing an attendance sheet around to check attendance. The teacher will then manually enter the data into an excel file or an online database. Even though this method has been in use for a long time, it still has several fundamental flaws that technology can easily address. Students are unwittingly encouraged to mark proxies when using the pen and paper method. Second, it takes up a lot of time from teachersthat could be better spent on more productive activities. Teahcres create documents for each subject and class to manually manage their students' grades. Gathering all of the attendance and results data from each professor, combining it into a single file, and then generating the attendance and results report is a difficult task for the class coordinator. As a result, professors' workloads may increase, and their energy levels may be depleted. Students frequently forget to keep track of their grades. They fail to provide the marks when they are required for some other reason and must go to the respective subject professors to obtain the marks. Both professors and students find it stressful.

The College Information Management System, which assists any organization in the maintenance and management of personal data, is included in the proposed system. From attendance management to report generation, this integrated information management system connects daily college operations. This minimizes data errors and ensures that information is always up to date throughout the college. It offers a centralized data repository to streamline all processes and reporting requirements. It has an easy-to-use user interface which is designed with help of the Django framework. As a result, users spend less time learning the system and are more productive. Effective security features protect data privacy while increasing productivity and decreasing professor workload.

1.2 Motivation Of Project

- Teachers are currently confronted with a number of challenges when it comes to maintaining student records. They make excel sheets to keep track of attendance, exam results, and other

information. It takes time to create and maintain this.

- Students are failed to note-down the subject marks of previous exams. So, also want to be able to view their attendance and grades at their end.
- As a result, there is a need to provide an efficient solution to college teachers that saves their time while also allowing the work to be completed as soon as possible.

1.3 Problem Statement and Objective

A web-based College ERP Management application that uses Django to collect personal information, attendance, and exam results from professors to generate an attendance report as well as exam results, saving professors time and reducing their workload by eliminating the need to create excel and word documents for each record, making the application more efficient to use.

The objective of the College ERP System is:

- Allowing any organization's administrator to edit and find out a student's personal details while also allowing the student to keep his/her profile up to date.
- To allow professors of any class the ability to edit and update the student attendance and results for their respective subject.
- To allow the students of any class to view their daily attendance and result of respective exams.
- To allow the parents of respective students of any class to view the daily attendance and result of their child.
- To create a separate student report and mail it to their parents.

2. Literature Survey

A plan and framework for recording attendance in schools and colleges that aims to make the laborious process of recording and compiling attendance simpler and more efficient. Its target market is educational institutions that need an automated system that is secure, portable, cost-effective, and easy to use. This prototype thus provides a comprehensive approach to replacing current traditional attendance systems with embedded attendance systems.[1] By entering student's roll numbers into the college or institution website, students can access their results. After examining the result status and using the University's standard calculation, the result is shown with individual scores and the corresponding percentage. The system is created with students in mind. The student must log in with their login name and password in order to access their results. Web development tools like HTML, CSS, PHP, and JavaScript, as well as the MySQL database, make this possible. The faculty has access to a subject-by-subject breakdown of the students' overall performance on the semester exams.[2]

The new technological method for managing all departmental tasks is the Android-based Smart College Management System. Students and colleges both benefit from the Smart Collage management system. In the current system, everything is done by hand. It takes a lot of time and money. In this suggested system, students can view results on their Android smartphones. The data will be kept on the university server. The data will be kept on a SQL server. Registration is required for the administrator, professors, and students. The faculty can update academic results, such as the grades students received on internal exams, by logging into their college account through an app. Depending on their departments, students can download different subject-specific notes. The application also includes logic to support the aforementioned amenities for its students; however, if the person downloading the app is not a student but an aspirant who has completed their HSC and wants to learn more about the college, it only includes the advertisement for the college.[3]

developing a biometric attendance tracking system for educational institutions such as universities and schools. It is possible to interpret the system's hardware and software components. A pod, a portable device that students can pass around the classroom, is included in the hardware section. It has a fingerprint scanner that can read, store, and identify student fingerprints as well as an LCD screen that shows various functional options. The identified fingerprint ID is then stored in memory and made ready for transfer. The database management system (DBMS) on a web server receives the data and uses it to automatically update the attendance tables. For the appropriate faculty, this database is available for download or viewing.[4]

3. Proposed system

System Design

The proposed system is categorized into three modules: Faculty, Student, and Administrator. The administrator manages all college professors' records and student information. Faculty are permitted to manage student attendance and results. They can also generate attendance and exam result reports. Students can view their attendance and exam results using the login ids provided by the administration. All the data is stored in the sqlite3 database.

The below figure depicts the flow of the project.

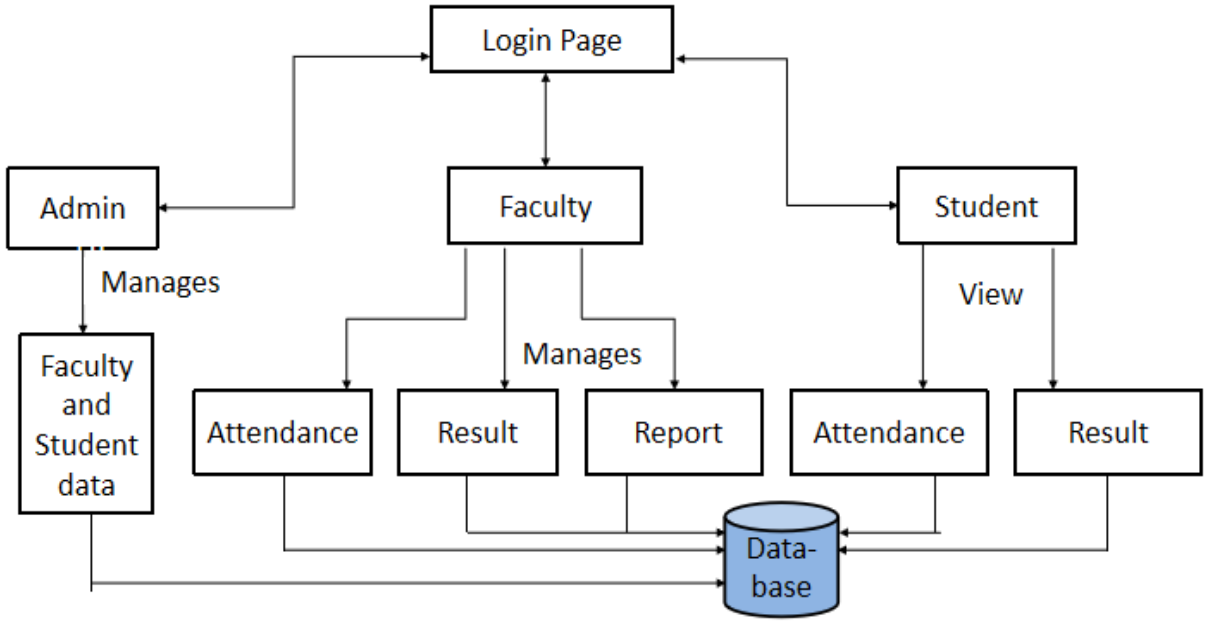

Figure 3.1. Flowchart of College ERP System

Methodology

The application is split up into three functionalities: administrators, professors, and users. Each module will be covered in depth.

3.1 Student

Each student is assigned to a class based on the semester. Each class is assigned to a department and a set of courses. As a result, these courses are shared by all students in that class each student receives a special email address and password to sign in. They will all have different points of view.

These points of view are discussed further below.

- **Student Information**

  Only the individual student's personal information is visible. This contains data about them, such as name, email address, etc. Additionally, users may check the courses they are registered for as well as the attendance and grades for each one.

- **Attendance Information**

  The attendance for each course will be shown. Both the number and percentage of classes attended are included in this. The attendance percentage will be marked in red if it is less than a given level, let's say 75%, and green if it is higher. Additionally, each course will have a view of daily attendance that displays the date and status.

- **Marks Information**

  Each course will have five events: Ca1, Ca2, Midsem, Practical exam, mini-project, and one semester-end examination. The ERP system will provide the marks for each of these for each subject.

3.2 Teacher

Every teacher belongs to a specific department and is assigned to classes with a specific course. To log in, each teacher will have a unique username and password. The various sections for teachers are detailed below.

- **Information**

  Teachers will have access to information about the courses and classes assigned to them. They also have access to information such as the department, semester, list of the students in the class, and information about students. Teachers have access to update the information of students.

- **Attendance**

  Every teacher can add and update the attendance of each student. Teachers will be given the list of students in the class they have assigned and they can enter the attendance of each student daily. There is no manual typing for marking a student as a present or absent. To resolve the need for typing, there will be two radio buttons next to each student's name, one for present and one for absent. A teacher only needs to click one of these two buttons to mark a student as present or absent. Sometimes, teachers have to schedule an extra class. For this purpose, there will also be an option for extra classes. Teachers can schedule extra classes and enter attendance for each student individually or the entire class. There will be one report download option. The

teacher can download the attendance report for the entire class using this option.

- **Marks**

  For each course, the teacher can enter the marks for Ca1, Ca2, Midsem, Practical exam, Mini project, and one-semester exam. They can also edit the marks if anything changes. The teacher can also download a report of marks for the entire class from the report download option given in this section.

3.3 Administrator

The system administrator will have access to every block of information therein. Every section can have an entry inserted by them. There is a total of 9 sections on the administrator page: assigns, attendance, classes, courses, departments, marks, students, teachers, and users.

- **Users**

  In the user's section, the admin is allowed to add the information of the new user who will be anyone a teacher, or a student. Admin can also update the information of the existing user.

- **Teachers**

  In this section, the admin is allowed to add teachers who are already added as a user with a specific id. To add a teacher there will be some fields that are required to fill. That is:

  1. User, which is needed to select
  2. Id, as per the teacher belongs to which class
  3. Dept, as per teacher belongs to which department
  4. Name, Name of the teacher
  5. Gender
  6. DOB, Date of birth of teacher.

- **Students**

  In this section, the admin allows adding students which are already added as a user with a specific id. To add a student there will be some fields that are required to fill. That is:

  1. User, which is needed to select
  2. Class id, student belongs to which class
  3. USN, student PRN number
  4. Name, Name of a student
  5. Gender
  6. DOB, Date of birth of the student

- **Marks**

  In this section, the admin can view the marks of each student which are entered by the teacher. Also, they can update marks.

- **Departments**

  In this section, the admin allows adding a new department as per the requirements. Two fields are required to fill. That is,

  1. Id, Id of particular
  2. Name, Name of the department

- **Courses**

  In this section, the admin allows adding courses that are required for a particular class. Fields which are required to fill are,

  1. Department, to which department course have to assign
  2. Id, course id
  3. Name, course name
  4. Shortname, Any other short form of course

- **Classes**

  In this section, the admin allows adding classes like FY class, SY class, etc. To add class some fields are required to fill,

  1. Id, class id
  2. Dept, to which department the class is to be assigned
  3. Section
  4. Sem, semester name

- **Attendance**

  Admin is allowed to assign attendance to a teacher at their end. To add attendance there are fields like,

  1. Assign, to which subject attendance want to assign
  2. Date, Attendance date
  3. Status, to set default present or absent.

- **Assigns**

  Admin is allowed to assign the particular course to a teacher. For this, some fields are required

to fill are,

1. Class id
2. Course, course name
3. Teacher, teacher name to which the course is to be assigned

There is one section called group where the admin can create a group and can add any teacher to the group. There are some common permissions given for each group. Admin just needs to assign these permissions to the group so that, a teacher in the group can access any sections as per the given permissions.

3.4 Use case diagram

A use case model shows the interaction between the system and the actors as well as the high-level operations. It shows how the admin, teacher, and students will going to use the application.

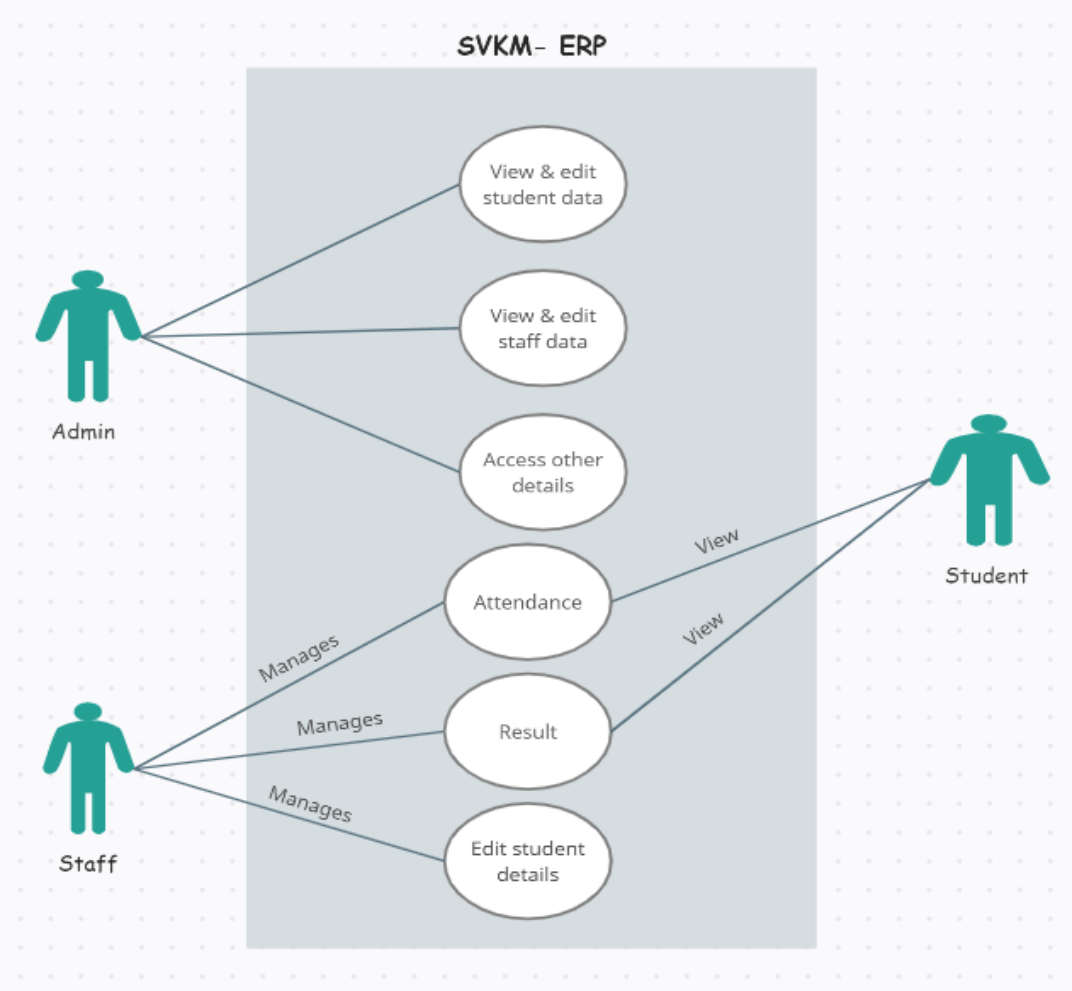

Figure 3. 2: Use case diagram of college ERP system

3.5 Class diagram

A class diagram shows the various classes involved in the software. For every class, a set of attributes and methods are included. For example, the admin class has the attributes Id, Name, Password and methods such as login, logout, adding new teacher, modify teachers, adding new students, modify students, adding new subjects, adding class, modify class, adding new departments, modify departments. Each instance of a class as well as teachers belongs to a department. The below class diagram depicts the relationship between different classes with each other.

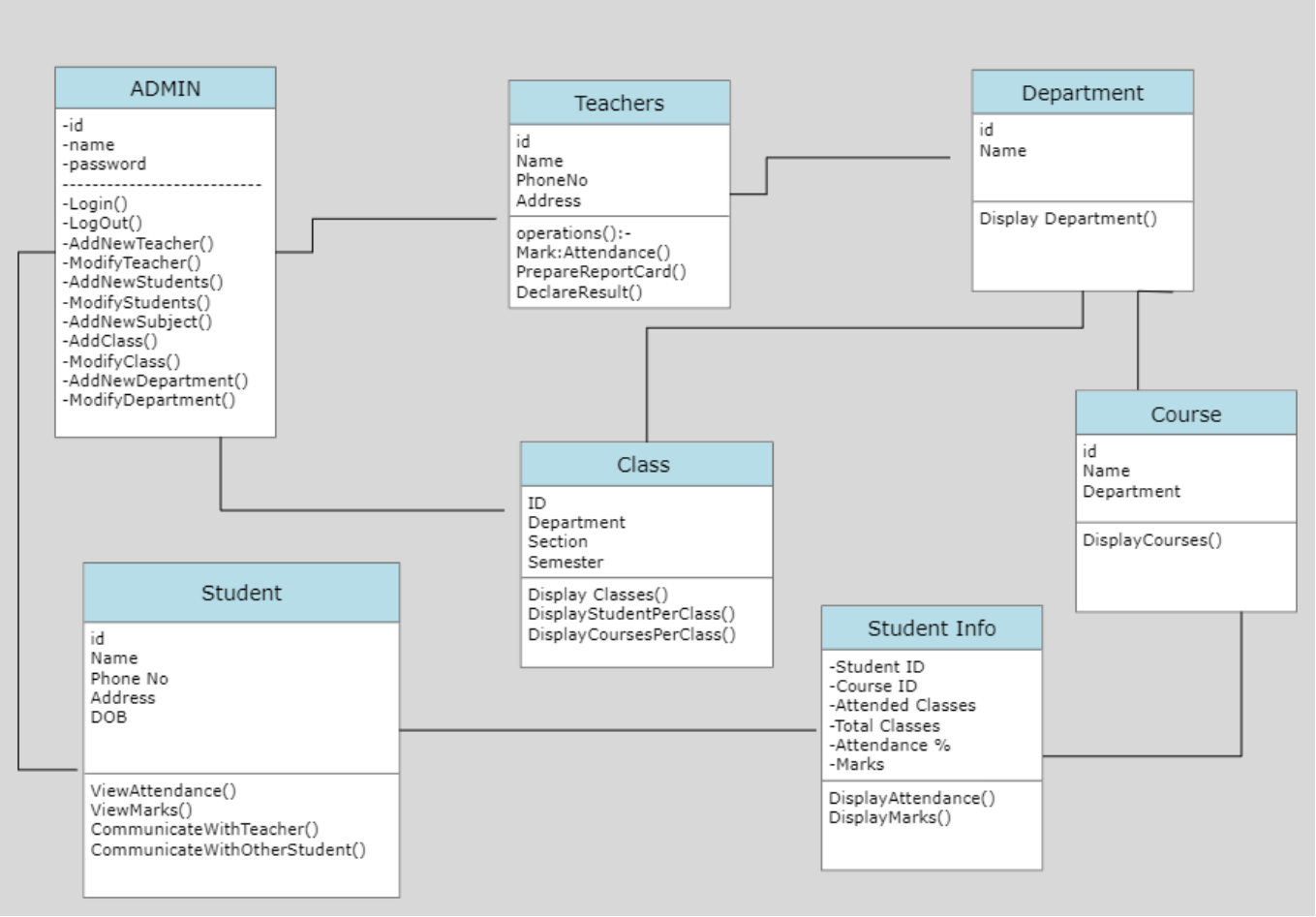

Figure 3.3: Class diagram of college ERP system

3.6 Architectural style

The college ERP system requires that the application's design be accurately reflected in the design. An application is composed of a number of system parts. The component's cooperation, coordination, and communication will be supported by the connection set. For computer-based systems, the ERP system was created. It is a prime example of data-centric architecture. All student and faculty information are

updated, added, deleted, or updated in the database of the college ERP software the commonly used data repository is communicated with by several architectural elements. The parts are largely independent of one another and make use of a common data structure.

The components are:

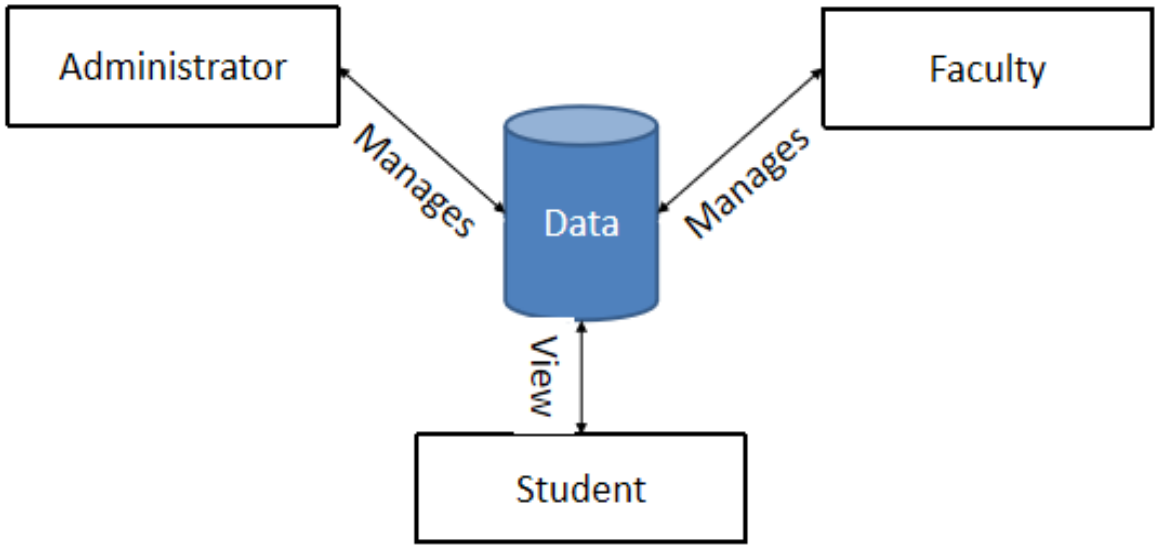

Figure 3.4: data-centric architectural style

Details of the software

- Operating System: Windows 10
- Database: SqLite3 database
- Front end: HTML/CSS/Bootstrap
- Back end: Django

4. System Implementation and Results

There are 3 primary user classes in the college ERP system. These people are the administration, professors, and learners. For each user class, all the capabilities and how they work will be fully described in this section.

4.1 Student

4.1.1 Login

The administration provides every college student a special username and password. Both of the username and the password are the same as their PRN.

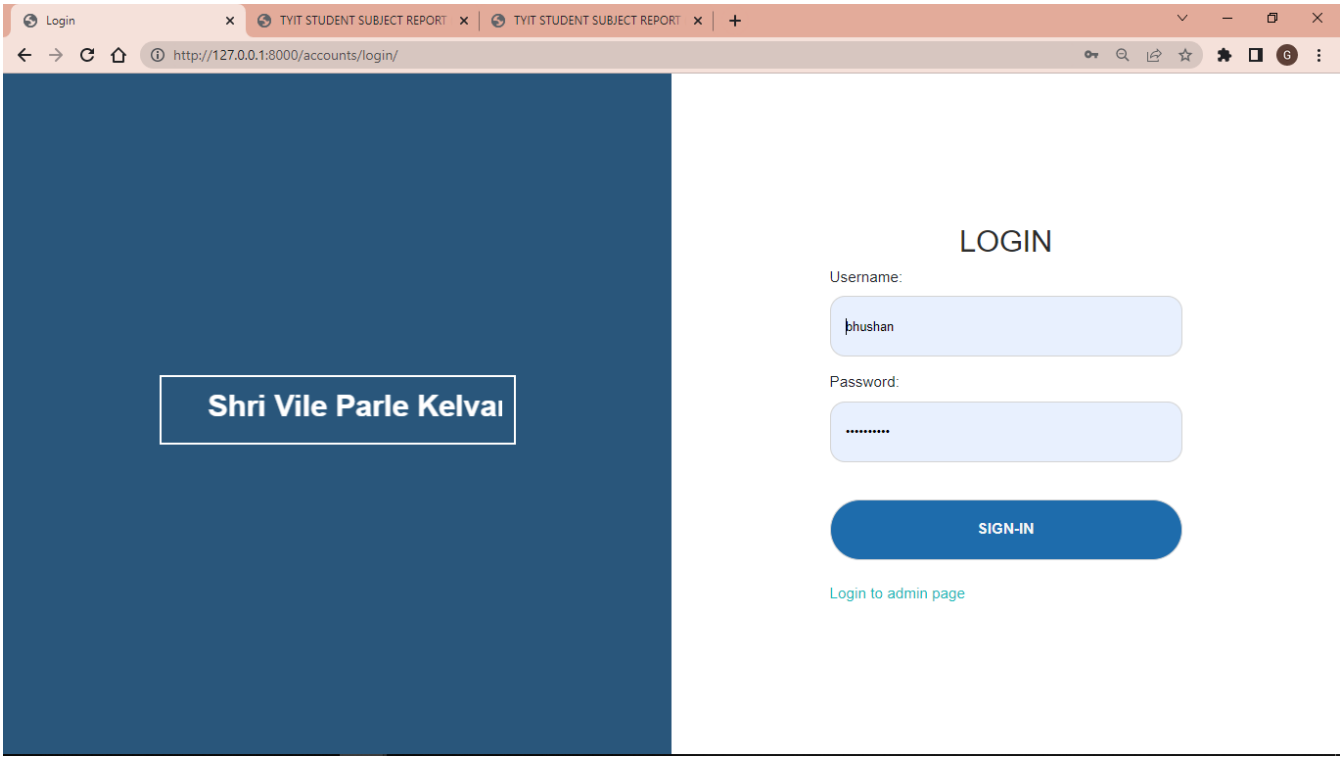

Figure 4.1: Student Login Page

4.1.2 Homepage

After successfully logging in, The student is given a webpage with information about their major sections, attendance, and grades. The attendance section shows the student's attendance status, including the number of classes taken, the number of classes attended, and the percentages of class chosen to take for each of their courses. In the marks area, the student can see their grades for each one of their courses.

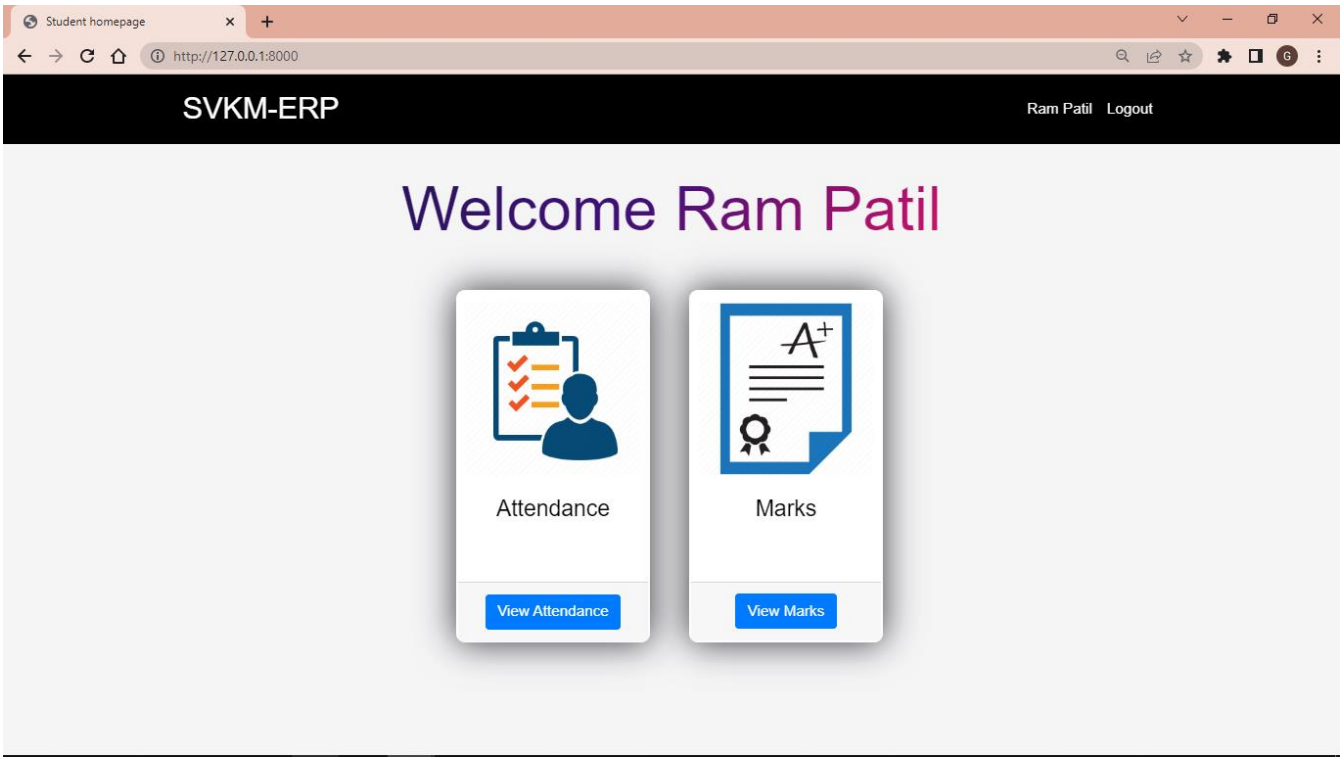

Figure 4.2: Student Homepage

4.1.3 Attendance

The courses they are assigned to are listed on the attendance page, followed by the course ID, the classes they attended, the total number of classes, and the attendance rate for every course. A course's attendance percentage will be indicated in red if it is below 75%, signifying that it has to be maintained. The attendance is maintained for this course if it is greater than 75, as indicated by the green sign. You are directed to the attendance detail page after clicking the view attendance button.

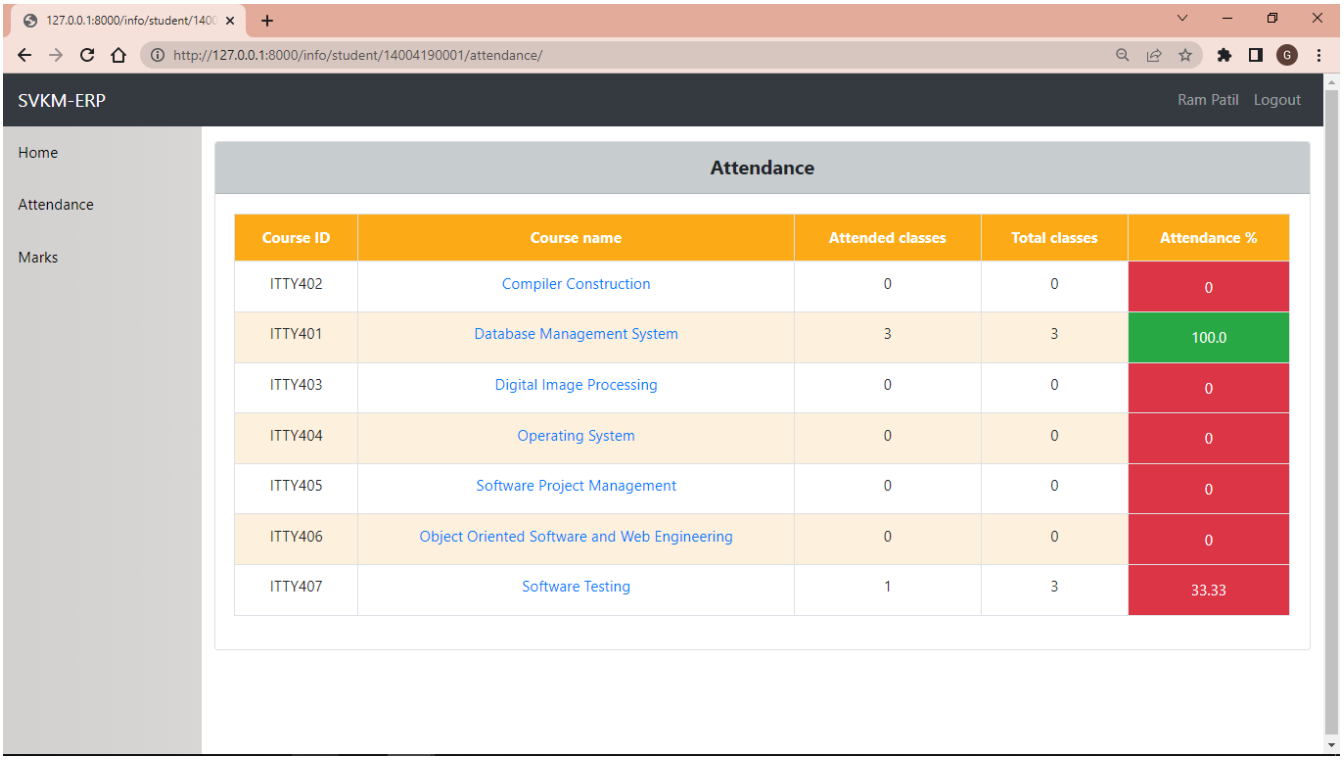

Figure 4.3: Student Attendance Page

Attendance detail

This page shows the attendance of each course to which they are assigned. The course name, classes attended, and the total number of classes are shown with the student's attendance percentage. By clicking on any course, they are directed to the attendance detail page where they can view the date and day on which they have attended class.

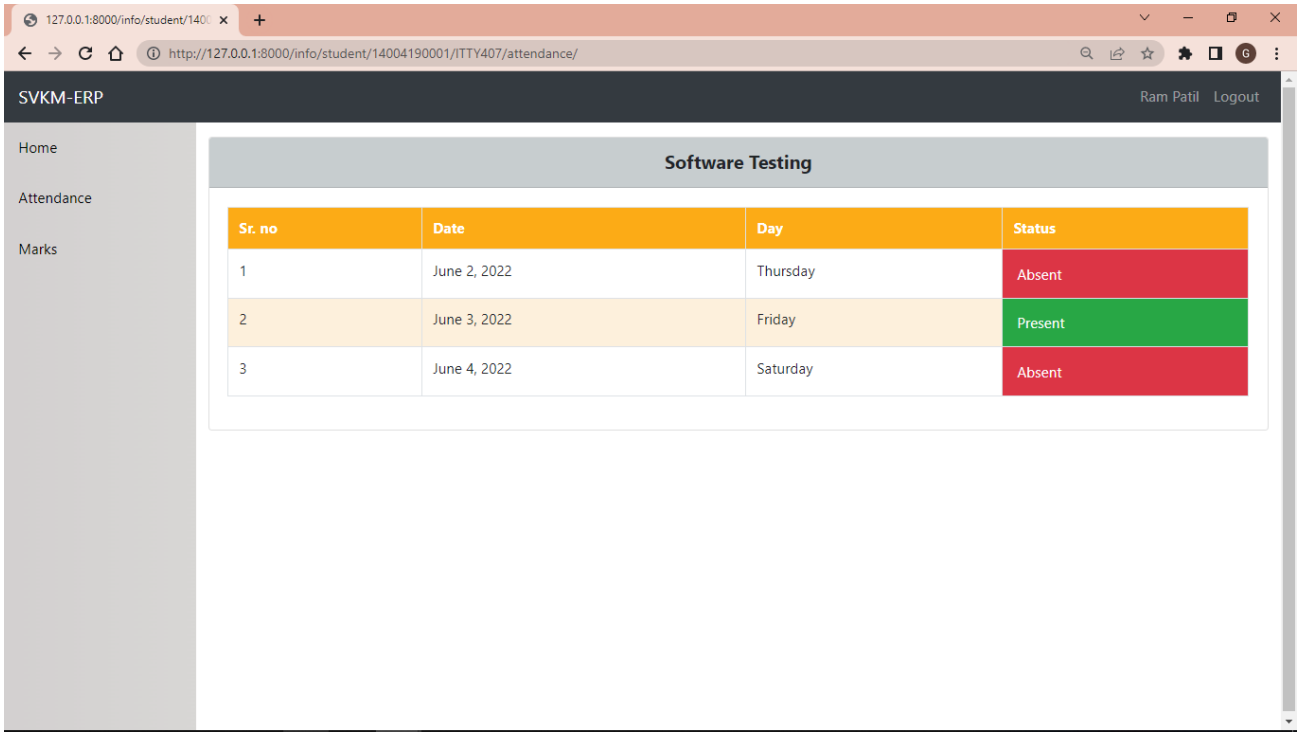

Figure 4.4: Attendance detail page

4.1.4 Marks

The marks page shows the marks of each course to which a student is assigned. They can view the marks of Ca1, Ca2, Midsem exam out of a total of 20, Mini project, a practice exam and a semester-ending examination of 100 points each.

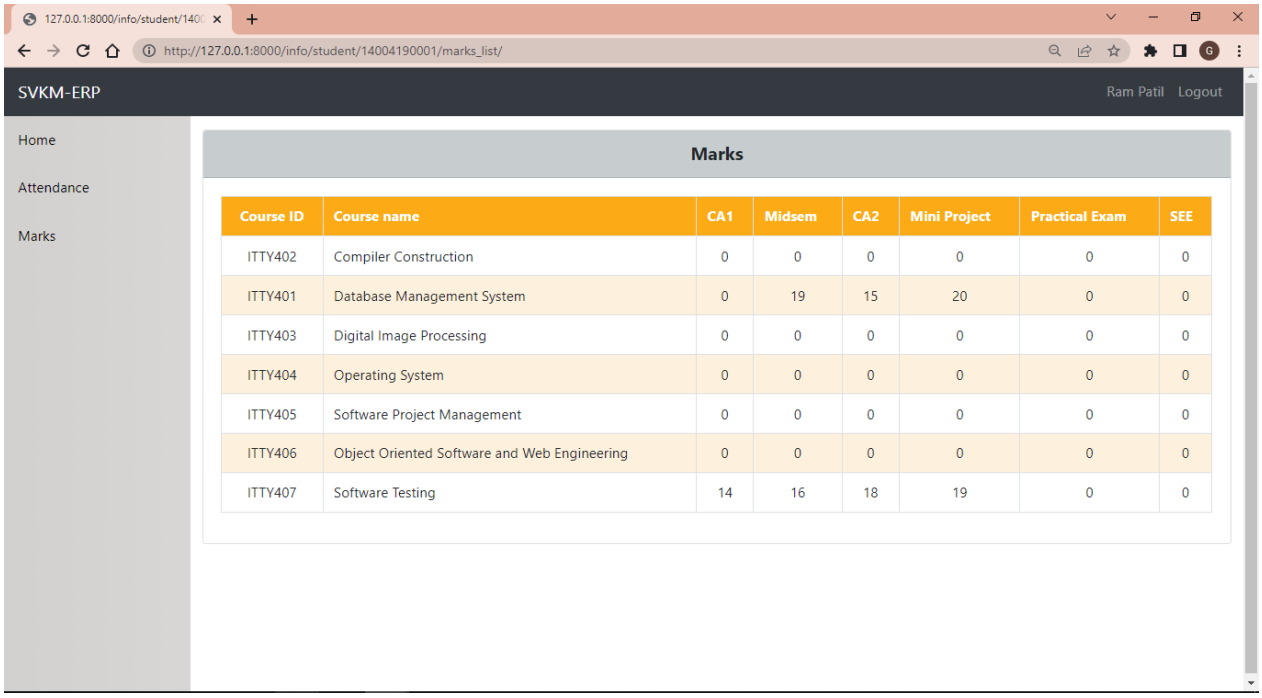

Figure 4.5: Students marks page

4.2 Teacher

4.2.1 Login

The admin gives each professor a special username and password. Depending just on administration, the user may be their teaching ID. The teacher may change their password.

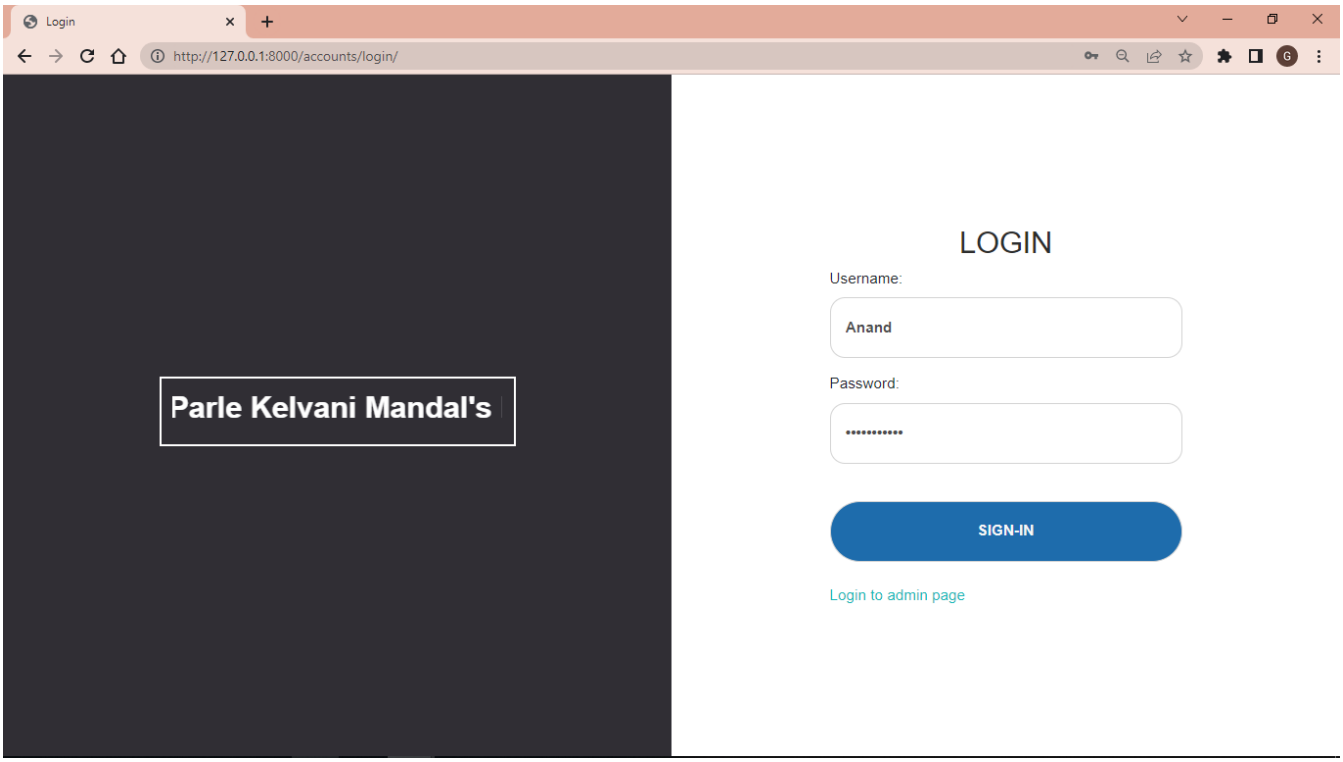

Figure 4.6: Teacher Login page

4.2.2 Homepage

The webpage that the professor sees after properly logging in contains their primary sections, attendance, grades, and generate reports.

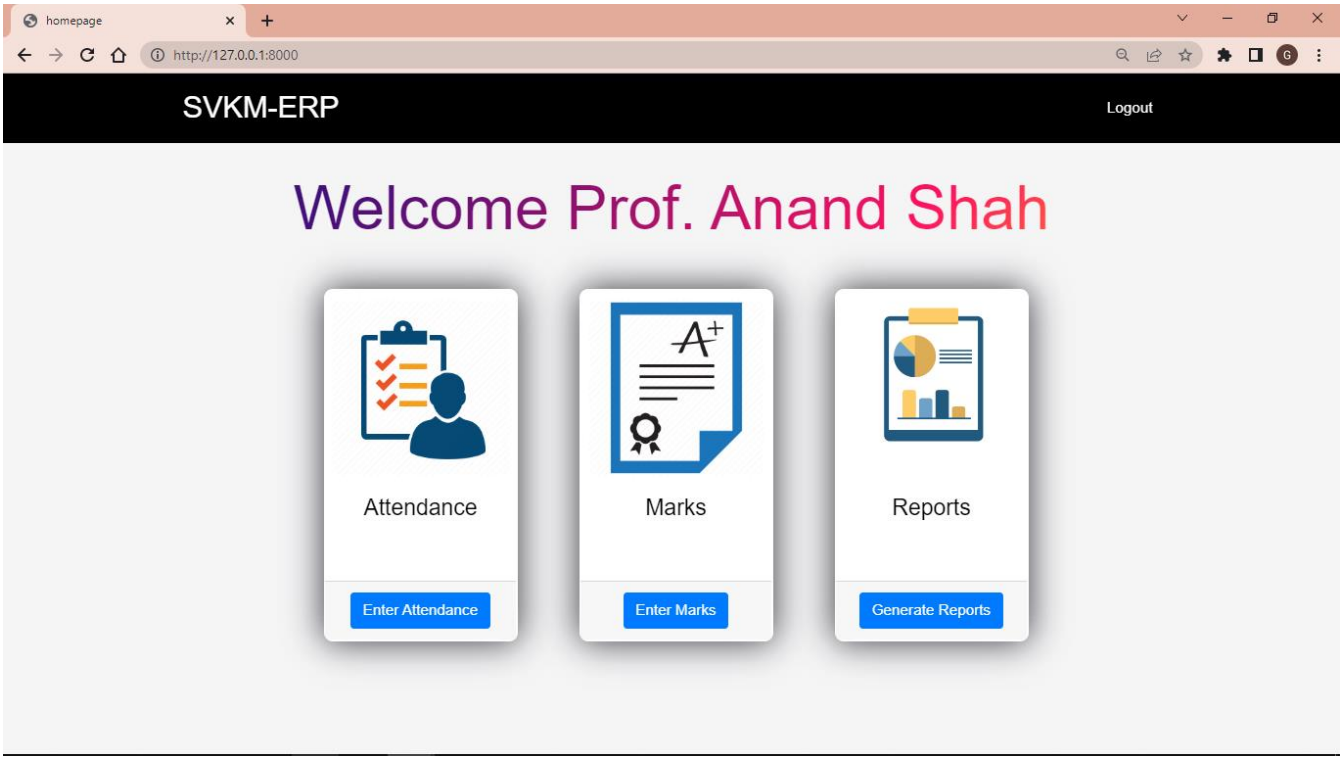

Figure 4.7: Teacher Homepage

4.2.3 Attendance

There is a list of all classes assigned to a teacher. So, for each class, there are three actions available. They are,

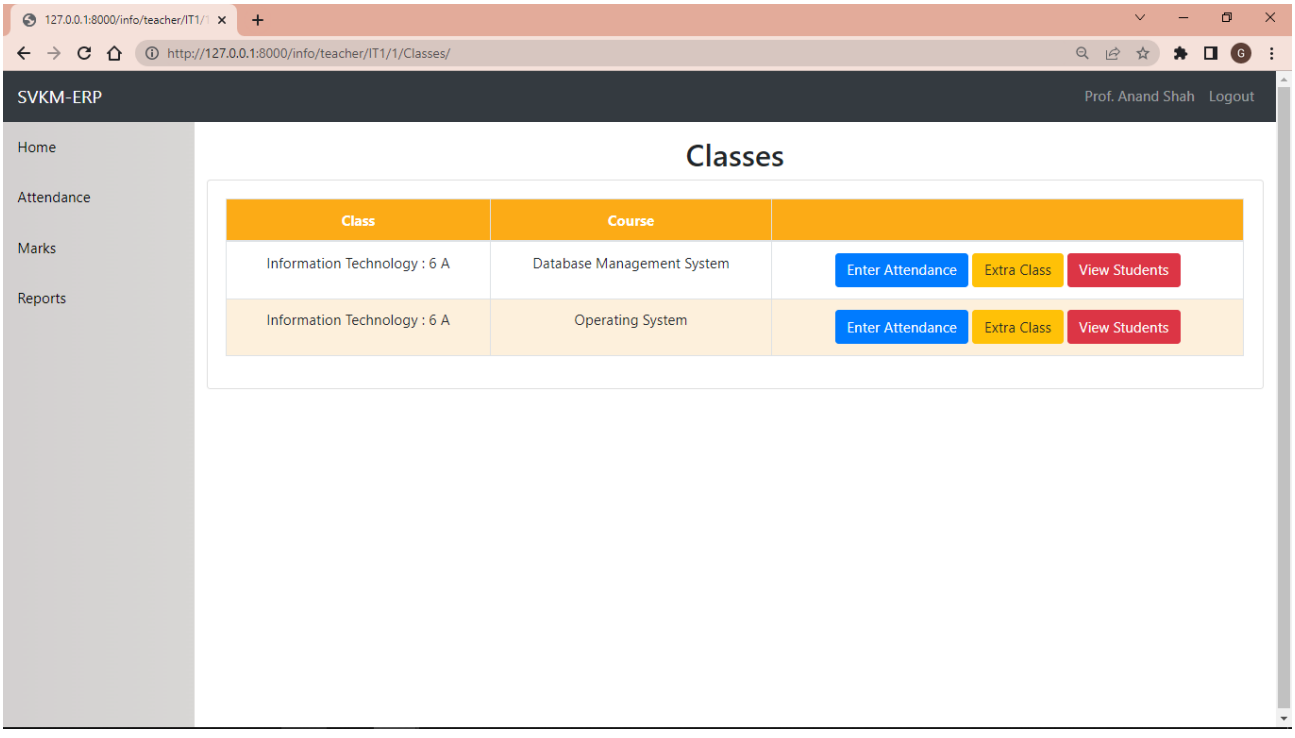

Figure 4.8: Attendance page

Enter Attendance

On this page, three sections are available date, status, and insert/update. In the date section, it shows on which date the class had taken. In the status section, it shows whether the attendance is marked or remains or the class has been canceled. In the insert/update section, there is one button 'enter attendance'. The page for marking attendance will be displayed after the teacher clicks that button. There are two alternatives listed next to each student in the list of students in that class on this page. The present and missing options are represented by radio buttons. By default, all pupils are counted as present. For the absent learners, the professor only needs to label them as absence. A present button will be green if the student is marked as a present, otherwise red if marked as absent.

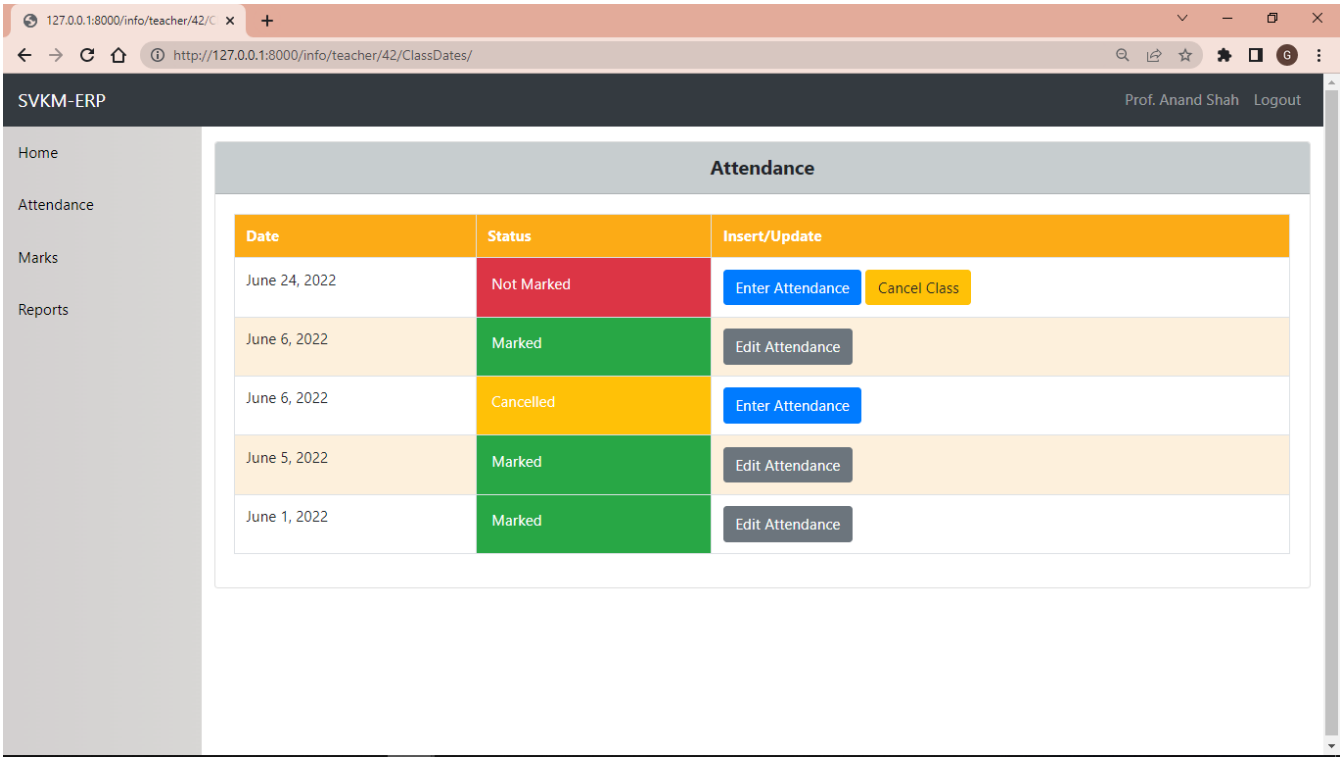

Figure 4.9: Enter attendance page

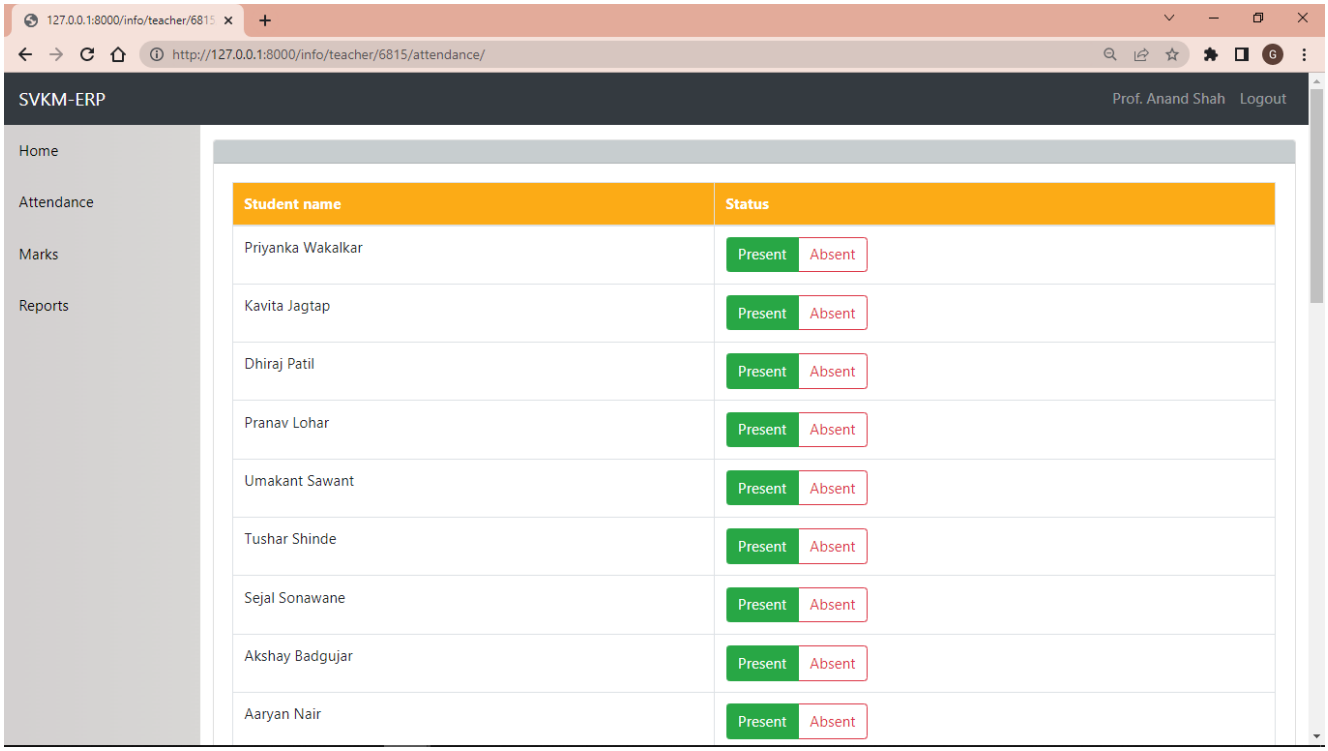

Figure 4.10: Marking attendance page

Edit attendance

After filling attendance, the teacher can also edit it. It is similar to a screen for entering attendance. The teacher can edit as they want and save it.

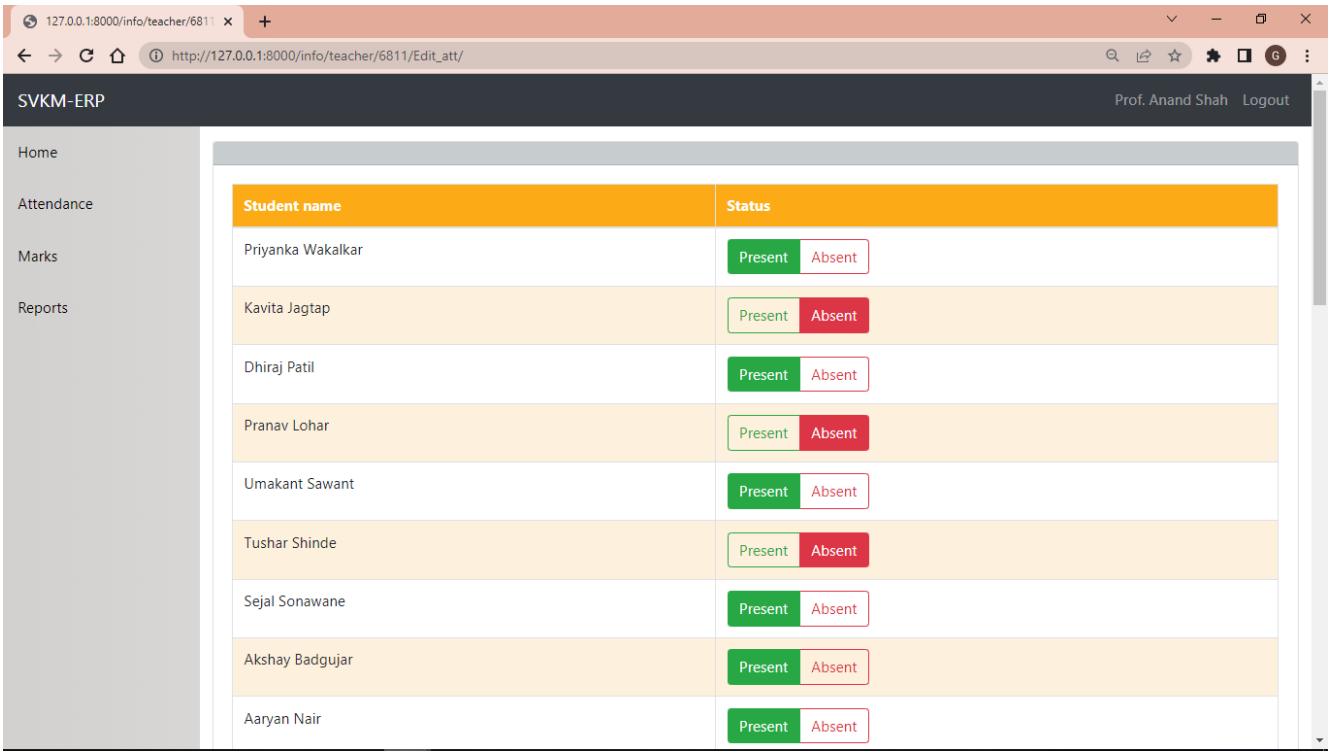

Figure 4.11: Edit attendance page

Extra class

The professor may indeed input the attendance for classes that were held at times other than those specified. The teacher only needs to input the date of the class and the attendance of each student when recording attendance. The additional class will show up in the list of completed classes after already being uploaded.

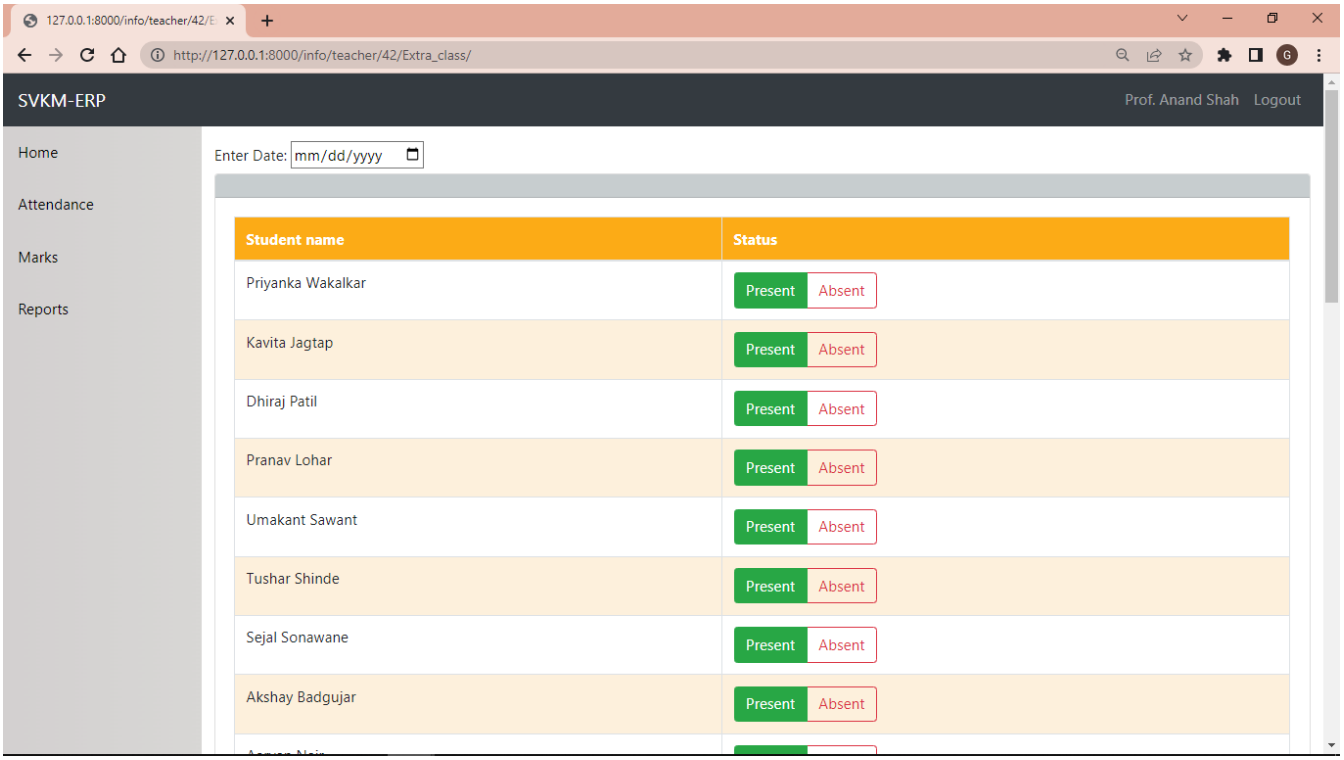

Figure 4.12: Extra class page

Student Attendance

For each class, there is an option next to each course view students. In this, As well as the courses attended and the overall number of classes taken by all pupils, the teacher can check the attendance percentage. The student attendance report is available for download by the teacher. Any student's attendance percentage that falls below 75% will be highlighted in red on the screen. As a result, the list of students who are not eligible to take the test is easily accessible to the professor.

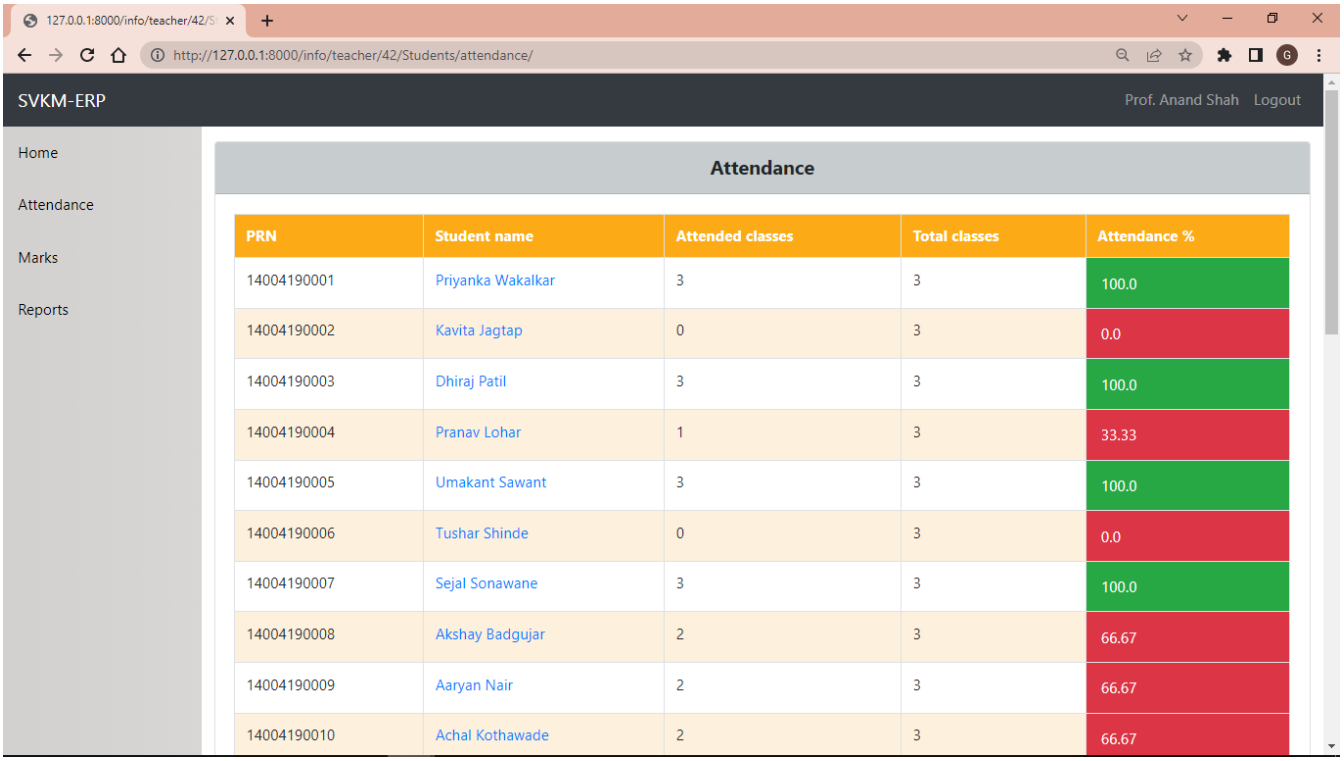

Figure 4.13: Student attendance page

4.2.4 Marks

The list of classes that the teacher is responsible for is shown on this page, along with two actions for each class. These are the actions:

Enter marks

The teacher can submit the results for three internal exams—one practical, one for the mini project, and one for the final exam—on this website. To indicate that the marks have not yet been inputted, they are all first highlighted in red. A test turns green once the results have been entered. Once the grades have been sent in, the students can see their individual marks.

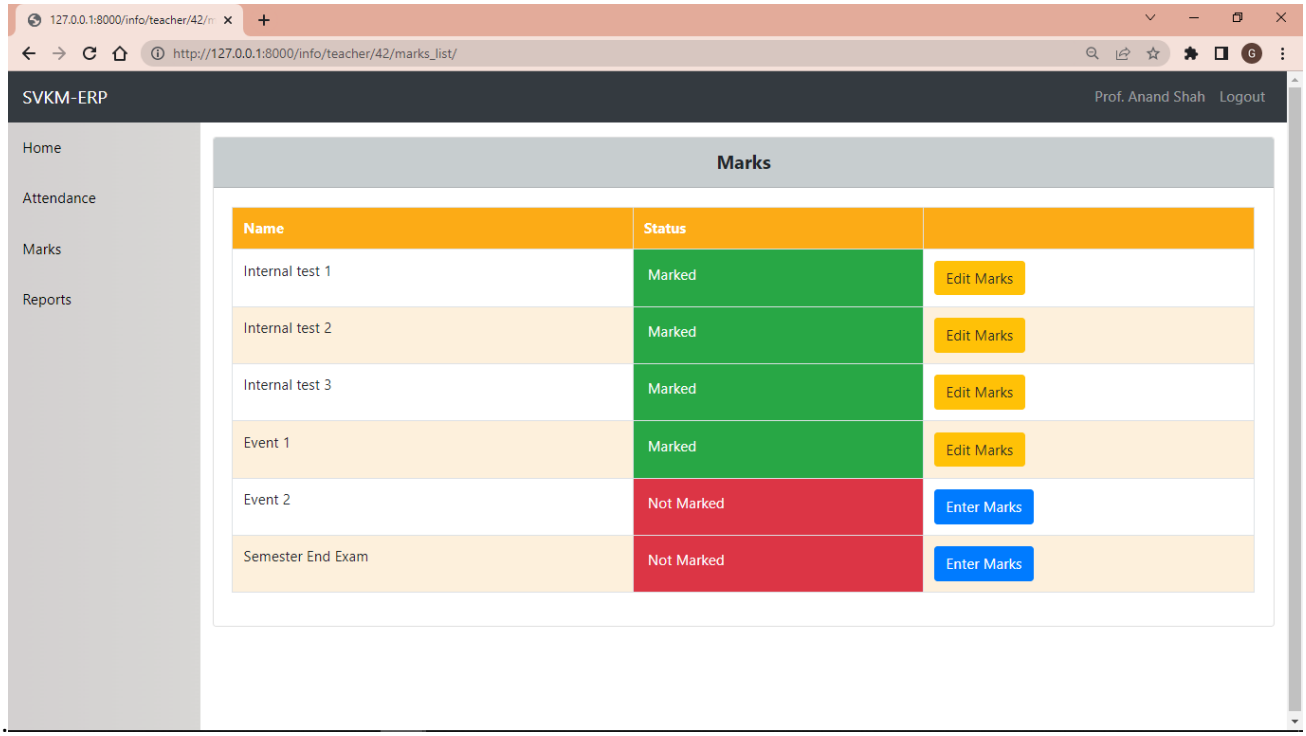

Figure 4.14: Enter marks page

Edit marks

The grade can be modified once they have been filled in. The listing of students in that class and the grades that have previously been entered are displayed while editing. The corrected marks can be modified and published. This improvement is instantly visible to the students.

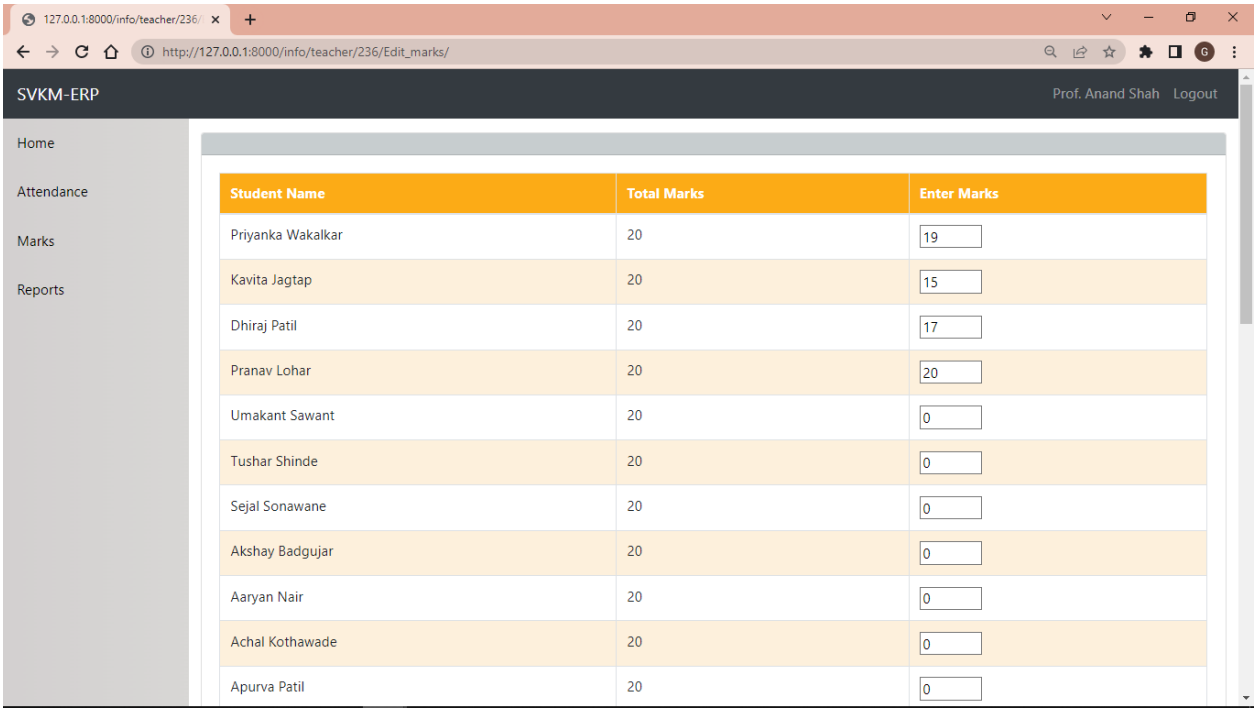

Figure 4.15: Edit marks page

Student marks

For each class in the marks section, there is an option next to each class i.e., view students. In this section, teachers can view the marks of students and teachers can download the report of the student's marks.

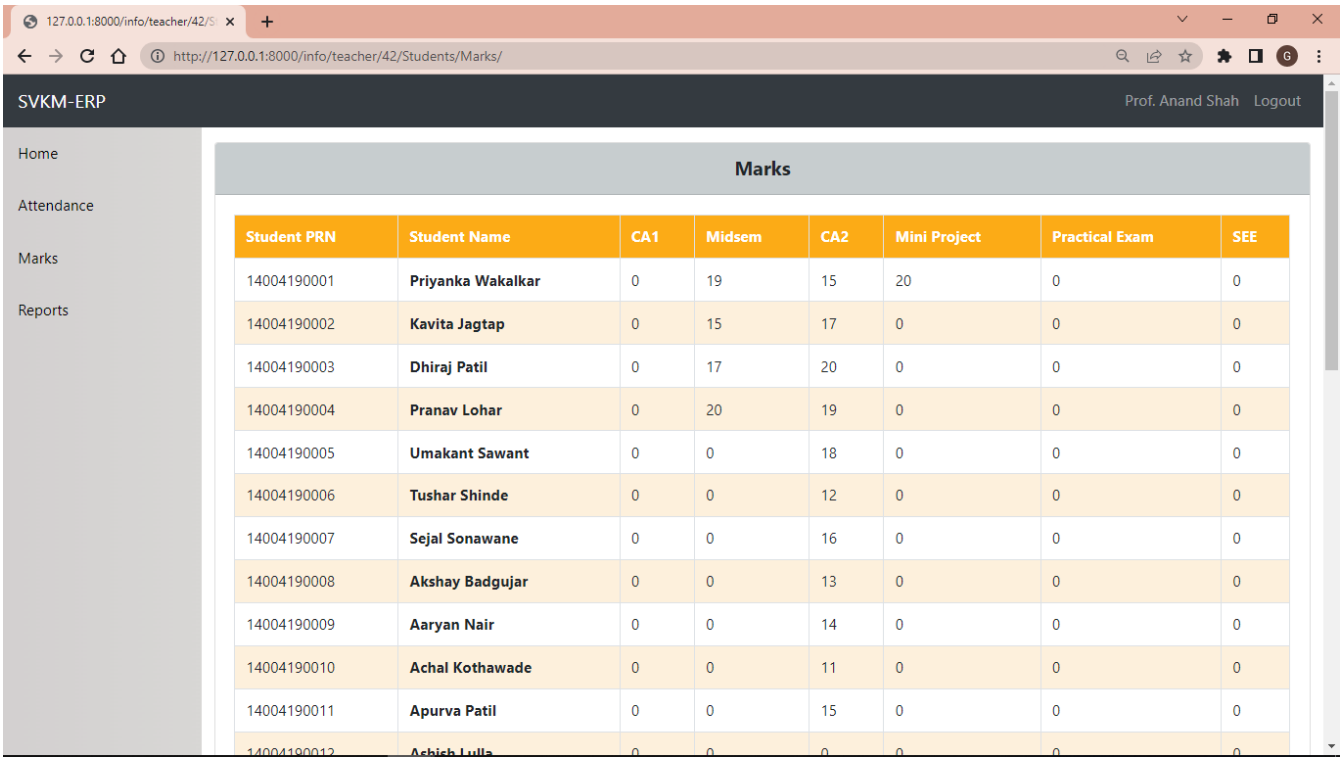

Figure 4.16: Student marks page

4.2.5 Reports

Reports are generated for each class using the teacher's final page. The report lists the students in that class along with their corresponding attendance percentage. Students having attendance percentage below 75% are highlighted in red.

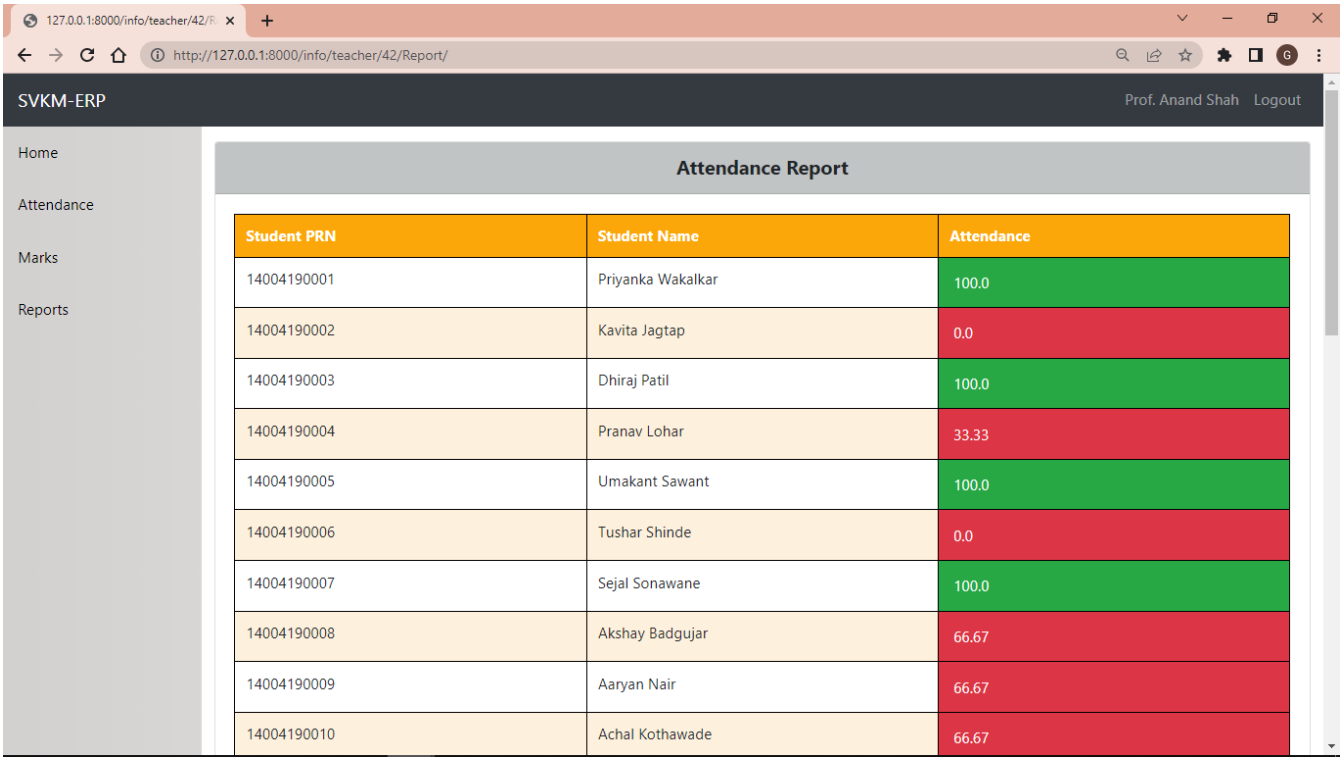

Figure 4.17: Generate report page

4.3 Administrator

It is up to the administration to add and remove departments, students, teachers, classes, and courses. The necessary tables in the database include all of this data. The admin is also in charge of adding to and changing the timings on the list of teachers who are allocated to classes with a particular course. The Assign table has this data. Additionally, the administrator will be able to see and modify each student's marks and attendance.

To ensure that the administrator can query the database quickly and effectively, certain features are in place. Each table, comprising student, instructor, and other tables, has a search function because the database has the potential to become quite vast. Utilizing the name or id, the search has located a specific record. The information can also be categorized depending on institution, class, and other factors.

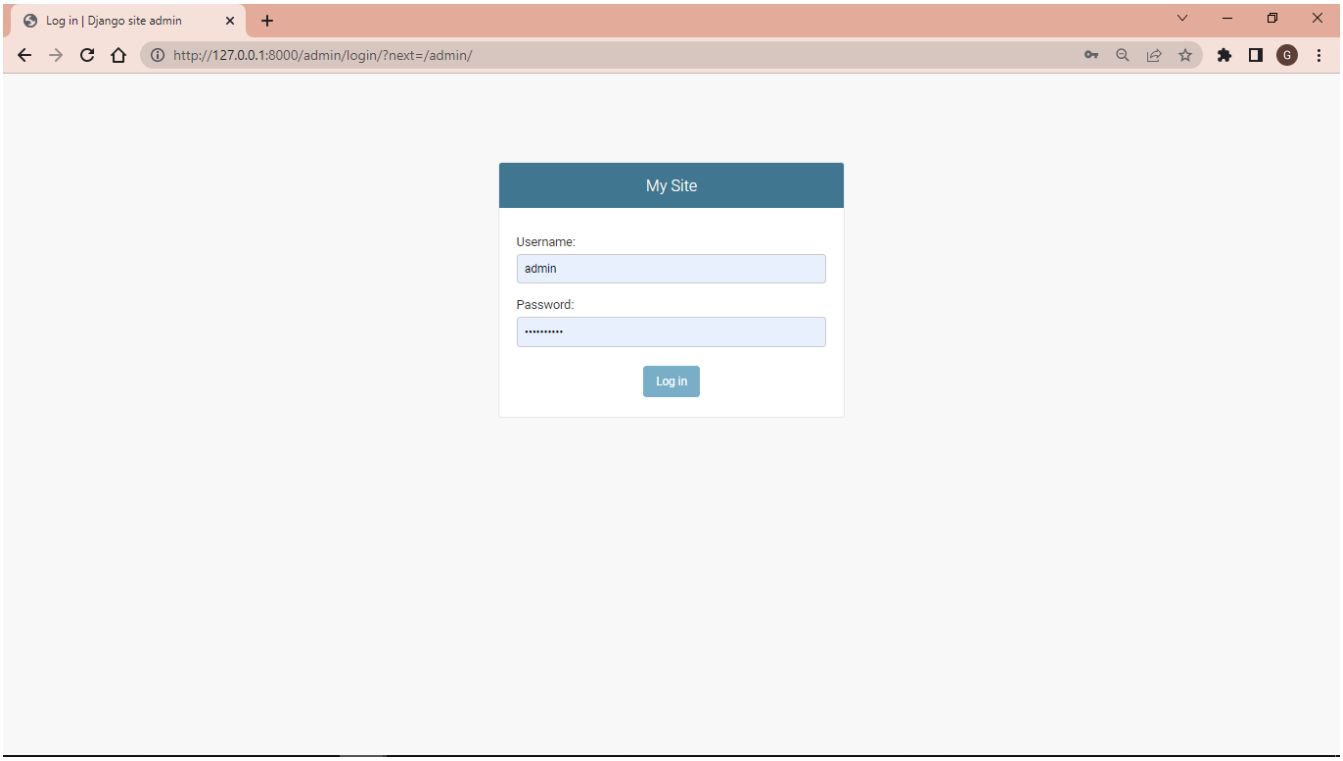

Figure 4.18: Admin login page

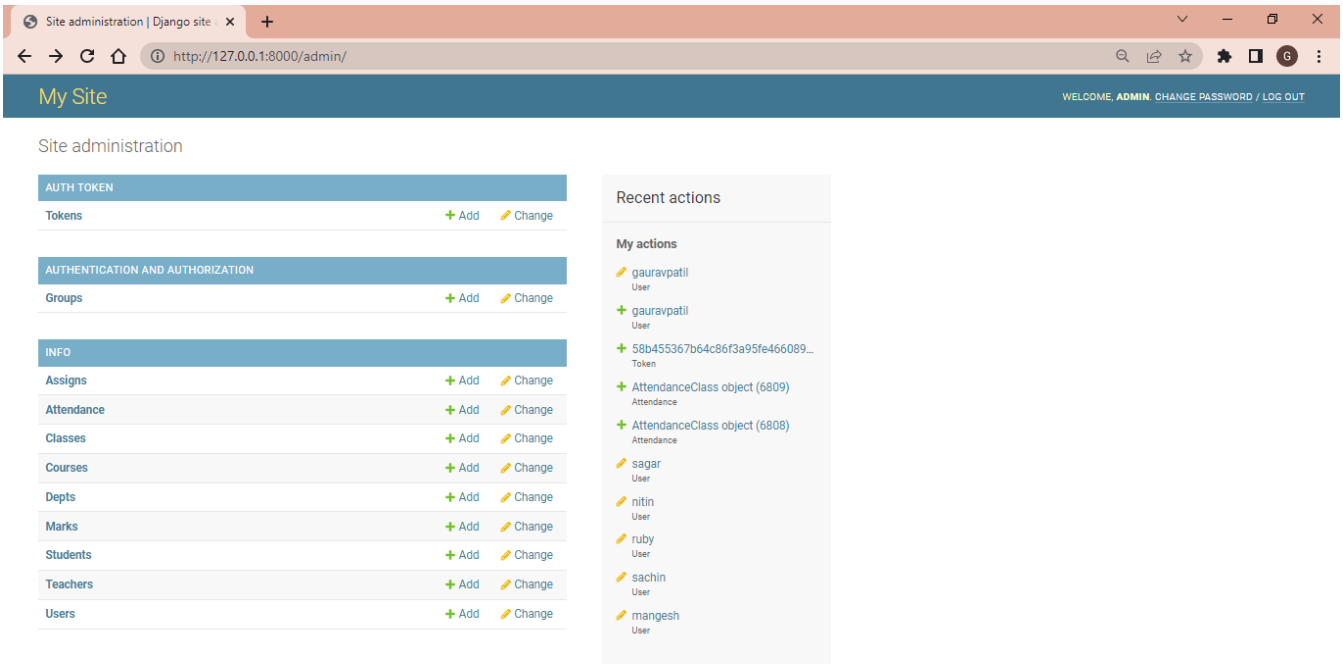

Figure 4.19: Admin Homepage

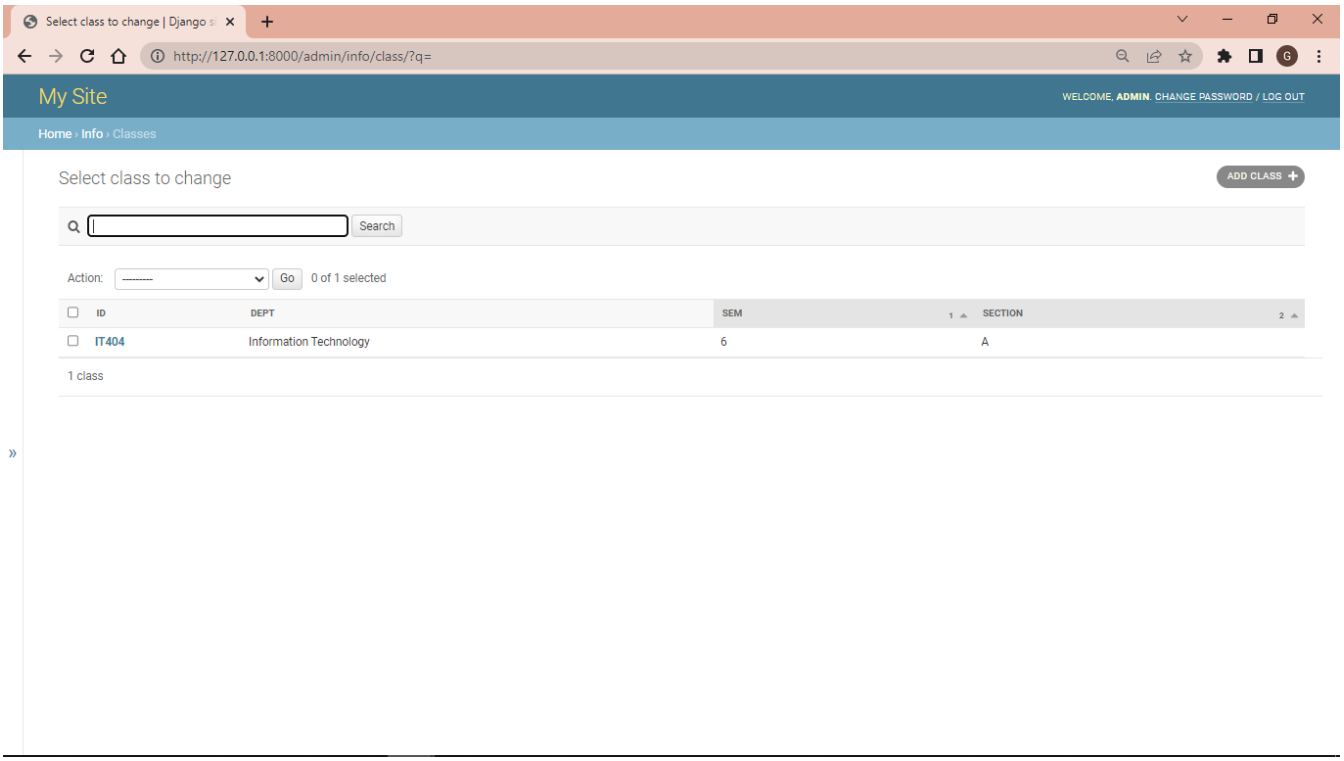

Figure 4.20: Admin classes page

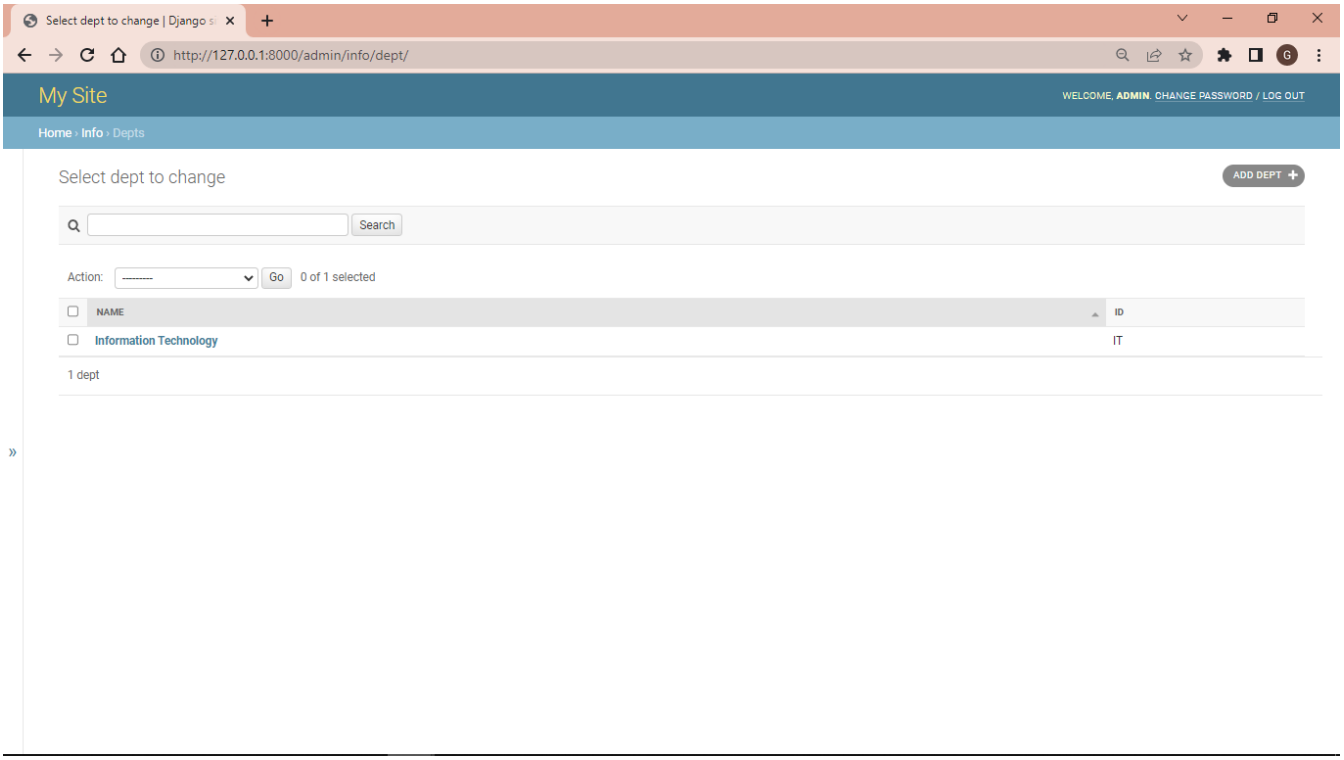

Figure 4.21: Admin department page

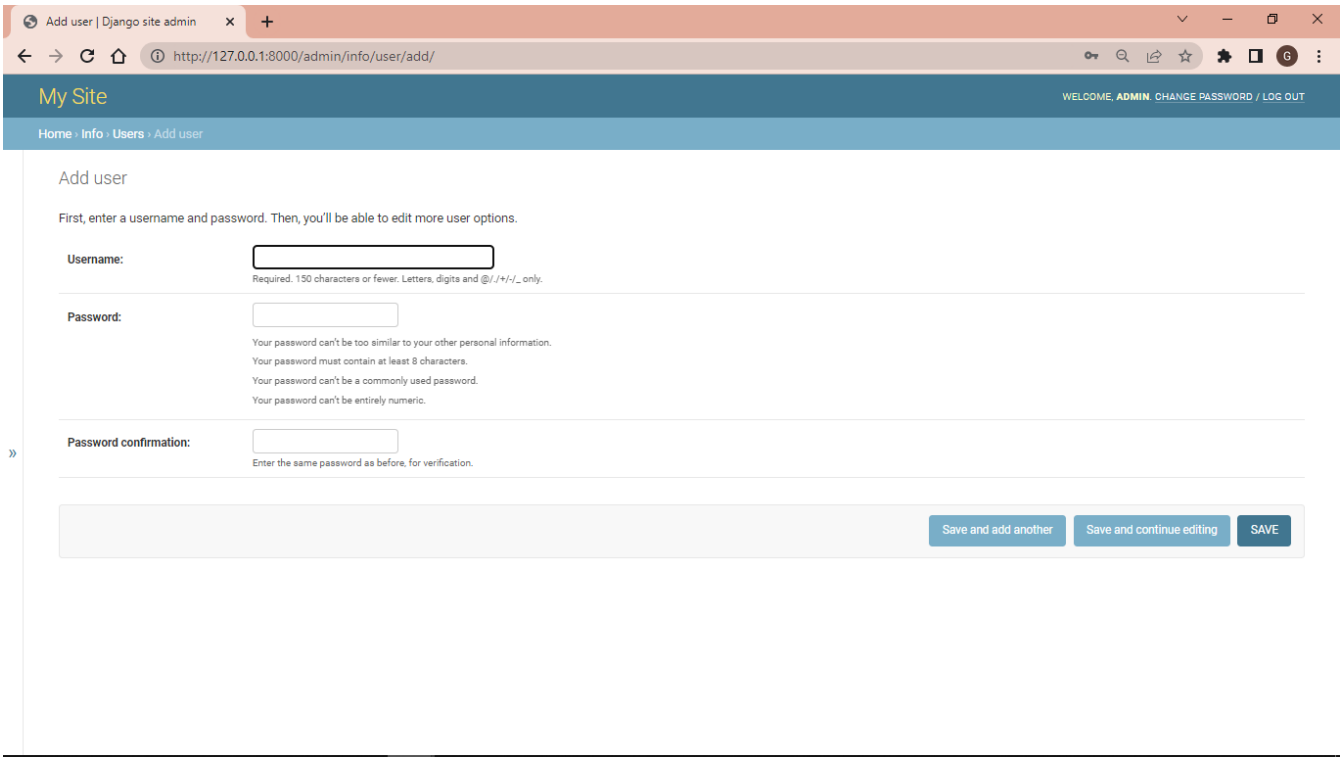

Figure 4.22: Add user page

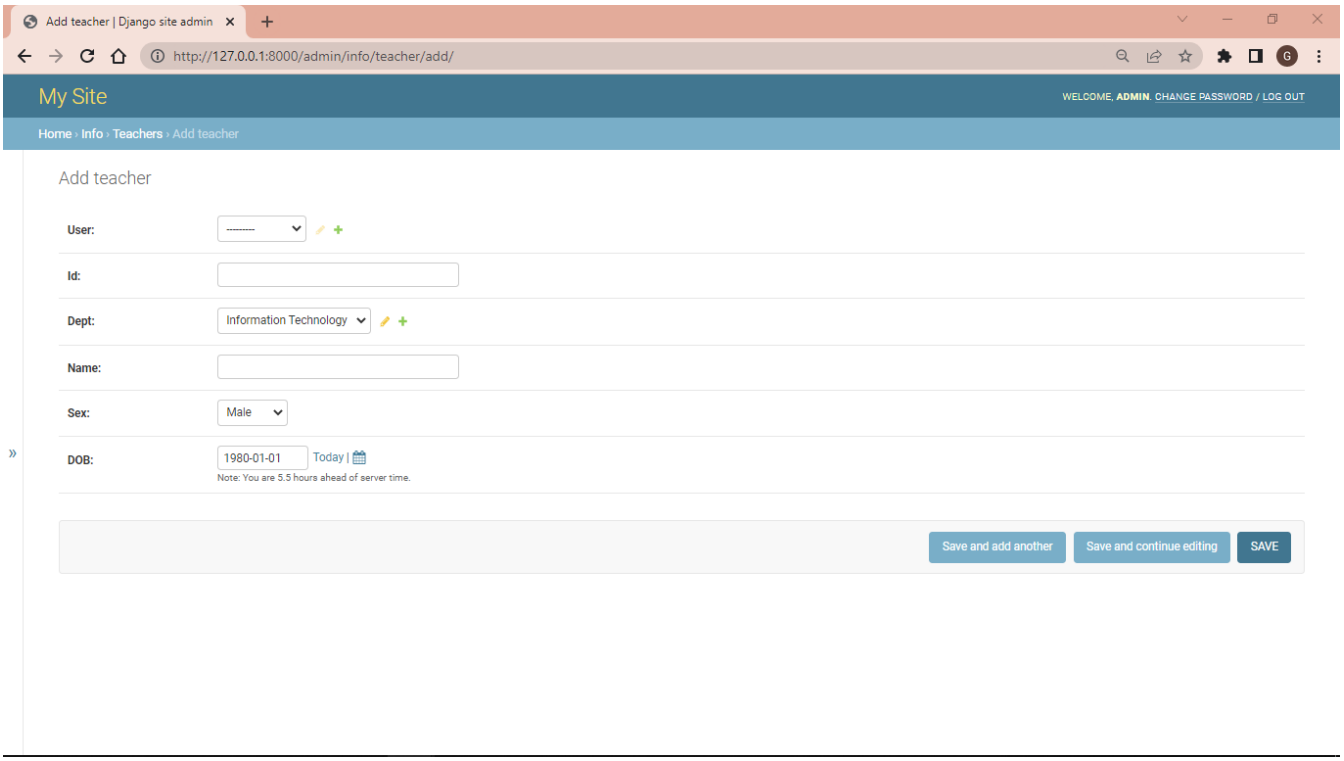

Figure 4.23: Add teacher page

5. Conclusion

The project's name, College Management System, refers to a system that handles problems specific to a given institution. The faculty and students both benefit greatly from the ease of access to information. The institute management system's features and modules have all been successfully integrated into this project following the requirements. because there is no quick or easy way to preserve staff and student records, and the current system makes it difficult to obtain information from files. The existing system is missing in automation as well. This System is designed to lighten the workload and significantly increase staff productivity. This system offers the ability to manage grades, attendance for all students, staff, departments, and other information, as well as providing report download options. This document helps to automate the manual system that is already in place. This work is electronic. Remote monitoring and control are both possible. It requires less effort overall. It consistently delivers accurate information. Information accumulated throughout the years can be preserved and retrieved at any time. The information kept in the repository benefits management in making wise decisions and producing reliable results. The storage space will make the operator's task easier As a result, the system developed will help the administrator by simplifying tasks and delivering reliable results. The operator's job will be easier because of the storage space. Organizations, including students, can quickly and easily obtain all the information they need by using the college ERP.

Future scope:

The "College ERP System" is a very adaptable system that is always open to change. Because of the characteristics of the GUI, this system is user-friendly. This approach makes it easier to maintain a lot of data. It is quite helpful that the member's information may be accessed quickly. It effectively cuts down on the user's time and effort.

There is always scope for future improvements to every software. The suggested system has a few improvements that are mentioned. These are what they are:

1. College Placement Team Component
2. Inventory management system, DIP, and operating system modules for software testing labs
3. Online Internal exam module that is integrated. e, g (CA1, CA2, Midsem)
4. online assignment, project submission
5. Student performance and grade analysis for placement drives
6. Feedback mechanism

Limitation Of project

1. It is expected that we have access to all the information required to create this software.
2. The operational risk could materialize. Likely, this system won't be able to be operated by

the organization where it will be installed. The risk will be addressed in user instructions.

3. Flexibility: Our data may expand to an extent that a database is unable to manage properly, and Big Data may eventually be merged.
4. An operating system malfunction could cause it to crash.

6. References

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