

A PROJECT REPORT ON

CERP

College ERP

SUBMITTED IN PARTIAL

FULFILLMENT OF

DIPLOMA IN ADVANCED COMPUTING (PG-DAC)



UNDER THE GUIDANCE OF

Mr. Jaydeep Apte

PRESENTED BY

220940120013	Adarsh Gupta
220940120035	Anupama Joshi
220940120066	Disha Murarka
220940120127	Nikita Tiwari
220940120153	Rakshit Jain
220940120121	Saud Mukhair

AT

CENTER FOR DEVELOPMENT OF ADVANCED

COMPUTING C-DAC, PUNE

ACKNOWLEDGMENT

The project “CERP” was a great learning experience for us and we are submitting this work to Advanced Computing Training School (C-DAC ACTS, Pune).

We are very glad to mention the name of Mr. Jaydeep Apte for his valuable guidance to work on this project.

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Our heartfelt thanks to Yogendra sir (Course Coordinator, PG-DAC) who gave us all the required support and kind coordination to provide all the necessities to complete the project and throughout the course up to the last day of the course.

From:

Adarsh Gupta
Anupama Joshi
Disha Murarka
Nikita Tiwari
Rakshit Jain
Saud Mukhair

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ABSTRACT

CDAC has been a major part on our career paths. As it inspired us to create this project which presents a college ERP(CERP) system that serves as a one-stop solution for students and administrators.

The ERP system includes functionalities such as student sign-up, login, profile viewing, timetable, and feedback provision for various modules. The administrator can log in, manage attendance, view feedback, generate, update, and delete schedules.

The system was developed using SPRINGBOOT and MySQL, with REACT and BOOTSTRAP for the user interface. The project's significance lies in providing a centralized system that streamlines administrative and academic processes, making them more efficient and accessible.

The system's future work could include adding more modules to cater to other academic requirements and expanding the user base.

INTRODUCTION

The purpose of this project is to develop a college ERP system that caters to the needs of students and administrators. As the number of students and courses offered by colleges/school or any educational institution increases, there is a need for a centralized system that can streamline administrative and academic processes.

Our college ERP system aims to achieve this by providing a single platform for all academic and administrative activities..

The system includes functionalities such as student sign-up, login, profile viewing, timetable, results, and feedback provision for various modules. The administrator can log in, manage attendance, view feedback, generate, update, and delete schedules. The system was developed using SPRINGBOOT and MySQL, with REACT and BOOTSTRAP for the user interface. Our project aims to provide an efficient and easy-to-use system that simplifies the process of managing academic and administrative activities.

In this report, we will discuss the various aspects of our college ERP system, including the development process, technical details, testing and evaluation, and the results of the system's implementation. We will also explore the potential applications of the system and the future work that could be done to improve it.

Overall, this project report aims to showcase the effectiveness of our college ERP system and its potential to transform administrative and academic processes in different educational institutions.

PROJECT OVERVIEW

AND

SUMMARY

3.1. PURPOSE

Our project, “CERP”, is a web-based online college management portal which aims to provide admin with functionalities to manage students efficiently. The purpose of this project is to develop a college ERP system that caters to the needs of students and administrators.

3.2. SCOPE

“CERP” aims to deliver a web-based portal that manages all the students where Course-Coordinator or class Teacher can be the Admin. Students can sign up and view their profile, get schedule, view their attendance in attractive graphical manner, get the results and also give their feedback for each modules.

Admins can login and add or update attendance for registered students, upload results, get feedback list, generate schedule and update them as well.

CERP is a portal for both students (for course related activities) and admins (for managing students).

3.3. OVERVIEW

A. TECHNOLOGIES USED

I. FRONT END

- HTML
- CSS
- Bootstrap
- React Js
- React-Redux
- JavaScript
- JQuery

II. BACK END

- Spring Boot
- Spring Data JPA
- Spring Security
- Spring Restful Services

III. DATABASE MANAGEMENT SYSTEM

- MySQL

B. FEATURES PROVIDED

I. FOR STUDENTS

- 1. Register:** Students can register themselves by adding general details about themselves.
- 2. Login:** Successfully registered candidates are now eligible to Login using the user ID and password they have set while signing up.
- 3. View Profile:** After successful login, students can view their profile.
- 4. Give Feedback:** Students can give feedback for each module based on provided criteria.
- 5. View Time-Table:** Students can view the schedule day wise / month-wise / Year wise or even on weekly basis.
- 6. View Attendance:** Students can view their overall attendance in different module in attractive graphical representation.
- 7. Logout** – After utilizing the portal, students can Logout of the portal.

II. FOR ADMINS

- 1. Login & Logout:** Similar to students, admins can login & logout to access their account.
- 2. Add Attendance :** For successfully registered students admin will be able to add their attendance. First admin needs to select the course for which students has enrolled. Then Admin need to choose the subject for which they wish to log the attendance. Now the whole list of students will appear on the screen and Admin can log the attendance for each student.
- 3. Update Attendance:** Admin can also update the previously logged attendance in similar manner as he added the attendance.
- 4. Generate Schedule:** Admin can generate the schedule for whole month. As soon as Admin click on this option , a calendar will appear on the screen wherein each cell represents a date and by clicking on that date , Admin will be given a form wherein he can edit enter the details like start date/time, end date/time and subject etc.
- 5. Update Schedule:** Admin can update the schedule as he added the event.
- 6. Delete Schedule:** Admin can also delete any event from the schedule.
- 7. View Feedback List:** Admin can view the feedback given by students for each module collectively.
- 8. Log out:** Admin can logout after using the portal.

3.4. FEASIBILITY STUDY

Feasibility is the determination of whether a project is worth undertaking or not. Before actually recommending the new system, it is important to investigate if it is feasible to develop it.

Before developing and implementing a system, we have to make sure that the system is feasible in the following ways:

- A. Technical Feasibility
- B. Operational Feasibility
- C. Economical Feasibility

A. TECHNICAL FEASIBILITY

In this type of feasibility study, the system analyst has to check whether it is possible or not to develop the requested system with the available manpower, software, hardware, etc.

This project makes use of cross-platform software and solutions like Java, and hence can run on any operating system. JavaScript, used in front-end, is swift and versatile framework when it comes to delivering the requested page. Also, as JavaScript is popular, it is easy to learn it and utilizing it as front end technology. The combination of Spring Boot, Spring Data JPA and Spring Security for backend make for a fast, easy to set-up and reliable system to interact with the database, as they are secure and transactional in nature. Since the sensitive data of customers and admins need to be stored in a robust and secure database, MySQL database management system was chosen as it is an industry standard.

B. OPERATIONAL FEASIBILITY

In this type of feasibility study, the operation of the system is considered. An analysis is performed on whether it is feasible for the user department to use the application. Thus, the proposed system is said to be operationally feasible only if clients are able to understand the system clearly and correctly, and can use it wIn the design of this project, we always kept user experience in mind. We made an effort to have a good user interface with consistent theme and alluring design to keep the users interested and engaged. In our project, the use of universally known icons and instructions that are easy to understand makes sure that the user will not need any special technical know-how to use the application. We made sure that the information available throughout the application is arranged in a logically coherent and consistent manner, guaranteeing that the users will have a smooth and effortless experience and even enjoy using the application.

C. ECONOMIC FEASIBILITY

In this type of feasibility study, the benefits of the system to the organization are considered by taking into consideration the cost-benefit analysis. Almost all the software and technologies used in our project is free, open-source, and widely available, with each of the technologies having an extensive community support. This makes “CERP” an economically feasible solution to the organizations that wish to implement it.

REQUIREMENTS-FULFILLED

4.1. FUNCTIONAL REQUIREMENTS

Following are the functional requirements fulfilled by our project:

- Students can register themselves if they have completed their admission formalities successfully.
- Further, they are asked to fill in their personal details and address details.
- Students can login using their user id and password they set while signing up.
- Students now can view their profile, check their attendance and schedule for the month/week/day.
- Students can also give feedback for different module after successful completion of each module.
- Admins can Add/Update/Delete time table.
- Admin can also view the feedback given by the students in collective manner.
- Admins can Add or Update the attendance for all the students of different courses.

4.2. NON-FUNCTIONAL REQUIREMENTS

Following are the non-functional requirements fulfilled by our project:

- Since the application uses lightweight and established software components that are also cross-platform, it shows remarkably good performance and has good support for every operating system.
- The use of JavaScript and JQuery for front end and Spring Boot, Spring Data JPA and Spring Security for back end delivers quick response times to admins and students.
- Card-style UI and well-known icons and symbols used throughout the application provides a consistent theme and user-friendly interface that anyone can grasp easily, even without a technical background.

PROJECT DESIGN

5.1. DATA MODEL

The following tables depict the database design used for “CERP” application:

A. Tables In CERP

```
mysql> use cerp;
Database changed
mysql> show tables;
+-----+
| Tables_in_cerp |
+-----+
| admin           |
| attendance      |
| course          |
| feedback        |
| schedule        |
| student         |
| subject         |
+-----+
7 rows in set (0.03 sec)

mysql> █
```

B. Student Table

```
mysql> select * from student;
```

id	address	email	first_name	gender	last_name	password	course_id
1	Pune	dishamurarka1117@gmail.com	Disha	Female	Murarka	Dish@111	1
2	Pune	rakshitjain@gmail.com	Rakshit	Male	Jain	Rakshit@111	1
3	Mumbai	saud@gmail.com	Saud	Male	Mukhair	Saud@789	1
4	Nashik	anu@gmail.com	Anu	Female	Joshi	Anu@789	1
5	Agra	mahak@gmail.com	Mahak	Female	Jain	Mahak@789	2
6	Nashik	sneha@gmail.com	Sneha	Female	Choudhari	Sneha@789	2
7	Gondia	paras@gmail.com	Paras	Male	Kesare	Paras@789	2
8	Amravati	jitendra@gmail.com	Jitendra	Male	Rajput	Jitendra@789	2
9	Delhi	nikhil@gmail.com	Nikhil	Male	Gupta	nikhil@789	2
10	Nimaj	ashi@gmail.com	Ashi	Female	Jain	Ashi@789	1
11	Surat	nipun@gmail.com	Nipun	Male	Taunk	Nipun@789	1
12	Gwalior	aman@gmail.com	Aman	Male	Bhadoriya	Aman@789	1
13	Allahabad	abhinav@gmail.com	Abhinav	Male	Shukla	Abhinav@789	1
14	Indore	yash@gmail.com	Yashvardhan	Male	Chauhan	Yash@789	1
15	Pune	pratik@gmail.com	Pratik	Male	Agrawal	Pratik@789	1
16	Allahabad	deepesh@gmail.com	Deepesh	Male	Kuwar	Deepesh@789	1
17	Nagpur	kajal@gmail.com	Kajal	Female	Khidalkar	Kajal@789	1
18	Delhi	divyangi@gmail.com	Divyangi	Female	Aggarwal	Divyangi@789	1
19	Pune	kajalk@gmail.com	Kajal	Female	Kesare	Kajalk@789	2
20	Pune	chaitrali@gmail.com	Chaitrali	Female	Shinde	Chaitrali@789	2
21	Ratnagiri	juilee@gmail.com	Juilee	Male	Bhave	Juilee@789	2
22	Dhule	harshada@gmail.com	Harshada	Female	Choudhari	Harshada@789	2
23	Islampur	aishwarya@gmail.com	Aishwarya	Female	Dabhole	Aishwarya@789	2
24	Amravati	madhav@gmail.com	Madhav	Male	Mundhada	Madhav@789	2
25	Amravati	utkarsh@gmail.com	Utkarsh	Female	Deshmukh	Utkarsh@789	2
26	Amravati	mrummyee@gmail.com	Mrummyee	Female	Chaudhari	Mrummyee@789	2
27	Nagpur	dnyanvi@gmail.com	Dnyanvi	Female	Bante	Dnyanvi@789	2
28	Pune	jayesh@gmail.com	Jayesh	Male	Jaiswal	Jayesh@789	2
29	Aurangabad	kanak@gmail.com	Kanak	Female	Murarka	Kanak@789	1
30	Aurangabad	tanmay@gmail.com	Tanmay	Male	Bagdiya	Tanmay@789	1

30 rows in set (0.00 sec)

C. Admin Table

```
mysql> select *from admin ;
```

id	email	password
1	admin@gmail.com	Admin@123
2	adarsh@gmail.com	Adarsh@789

2 rows in set (0.00 sec)

D. Course Table

```
mysql> select * from course;
+----+-----+
| id | course_name |
+----+-----+
| 1  | PG-DAC      |
| 2  | PG-DBDA     |
+----+-----+
2 rows in set (0.00 sec)
```

E. Subject Table

```
mysql> select * from subject ;
+----+-----+-----+
| id | subject_name      | course_id |
+----+-----+-----+
| 1  | Core Java         | 1         |
| 2  | DSA               | 1         |
| 3  | DBT               | 1         |
| 4  | WPT              | 1         |
| 5  | OS               | 1         |
| 6  | DOTNET           | 1         |
| 7  | J2EE             | 1         |
| 8  | SDM              | 1         |
| 9  | Linux Programming | 2         |
| 10 | DBMS             | 2         |
| 11 | Python           | 2         |
| 12 | OOP Java         | 2         |
| 13 | Big Data Technologies | 2         |
| 14 | Data Visualization | 2         |
| 15 | Statistics       | 2         |
| 16 | Machine Learning | 2         |
+----+-----+-----+
16 rows in set (0.00 sec)
```

F. Attendance Table

```
mysql> select * from attendance;
```

id	attendance	student_id	subject_id
1	80	1	1
2	90	1	2
3	85	1	3
4	70	1	4
5	100	1	5
6	80	1	6
7	75	1	7
8	60	1	8
9	60	2	1
10	75	2	2
11	85	2	3
12	70	2	4
13	99	2	5
14	80	2	6
15	76	2	7
16	95	2	8
17	70	3	1
18	70	3	2
19	85	3	3
20	60	3	4
21	76	3	5
22	81	3	6
23	77	3	7
24	97	3	8
25	90	4	1
26	100	4	2
27	90	4	3
28	99	4	4
29	87	4	5

G. Schedule Table

```
mysql> select * from schedule;
```

id	end_time	location	start_time	course_id	subject_id
1	2023-03-14 11:30:00.000000	Class 001	2023-03-14 08:00:00.000000	1	1
2	2023-03-14 16:00:00.000000	Class 001	2023-03-14 13:00:00.000000	1	8
3	2023-03-15 12:00:00.000000	Class 001	2023-03-15 09:00:00.000000	1	4
4	2023-03-15 21:30:00.000000	Class 001	2023-03-15 18:00:00.000000	1	2
5	2023-03-16 13:00:00.000000	Class 001	2023-03-16 10:00:00.000000	1	5
6	2023-03-16 18:00:00.000000	Class 001	2023-03-16 15:00:00.000000	1	7
7	2023-03-14 13:00:00.000000	Lab 102	2023-03-14 10:00:00.000000	2	11
8	2023-03-14 12:00:00.000000	Lab 102	2023-03-14 08:00:00.000000	2	12
9	2023-03-16 13:30:00.000000	Lab 102	2023-03-16 09:30:00.000000	2	9
10	2023-03-16 16:00:00.000000	Lab 102	2023-03-16 13:00:00.000000	2	15
11	2023-03-17 20:00:00.000000	Lab 102	2023-03-17 18:00:00.000000	2	12

```
11 rows in set (0.00 sec)
```

H. Feedback Table

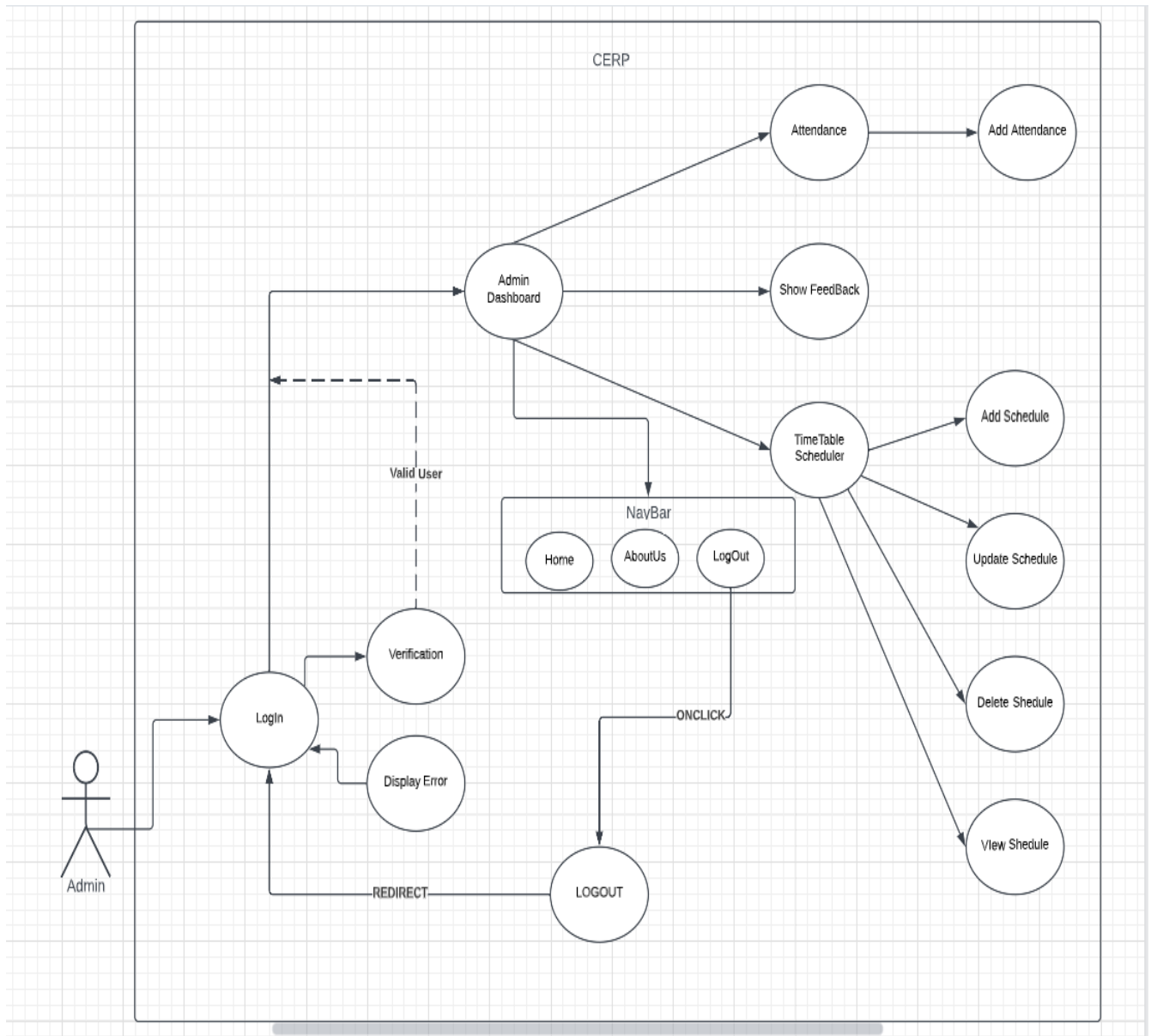
```
mysql> desc feedback;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
communication	int	NO		NULL	
guidance	int	NO		NULL	
knowledge	int	NO		NULL	
punctuality	int	NO		NULL	
suggestion	varchar(255)	YES		NULL	
teaching	int	NO		NULL	
student_id	bigint	YES	MUL	NULL	
subject_id	bigint	YES	MUL	NULL	

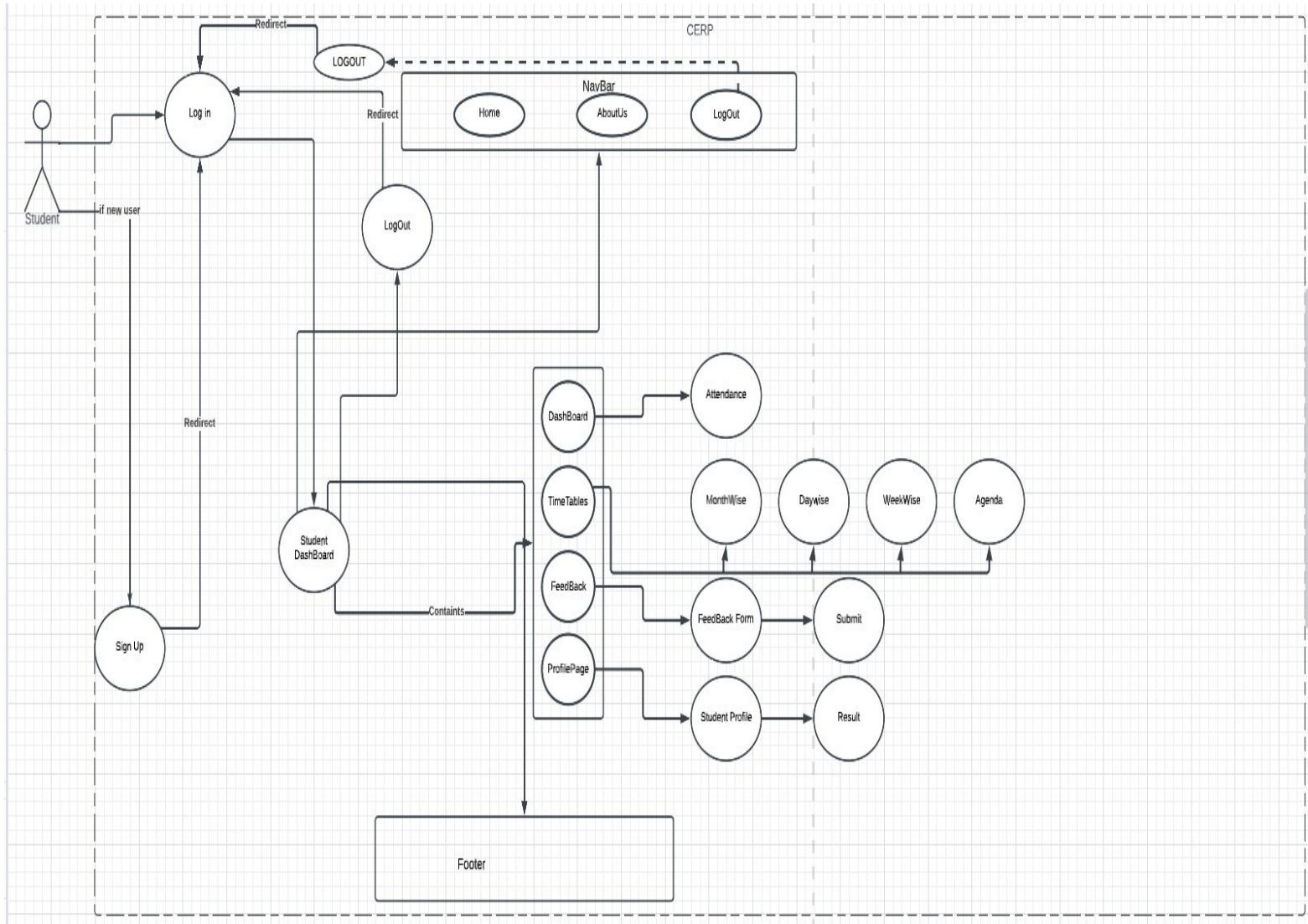
```
9 rows in set (1.83 sec)
```


5.2. USE CASE DIAGRAM

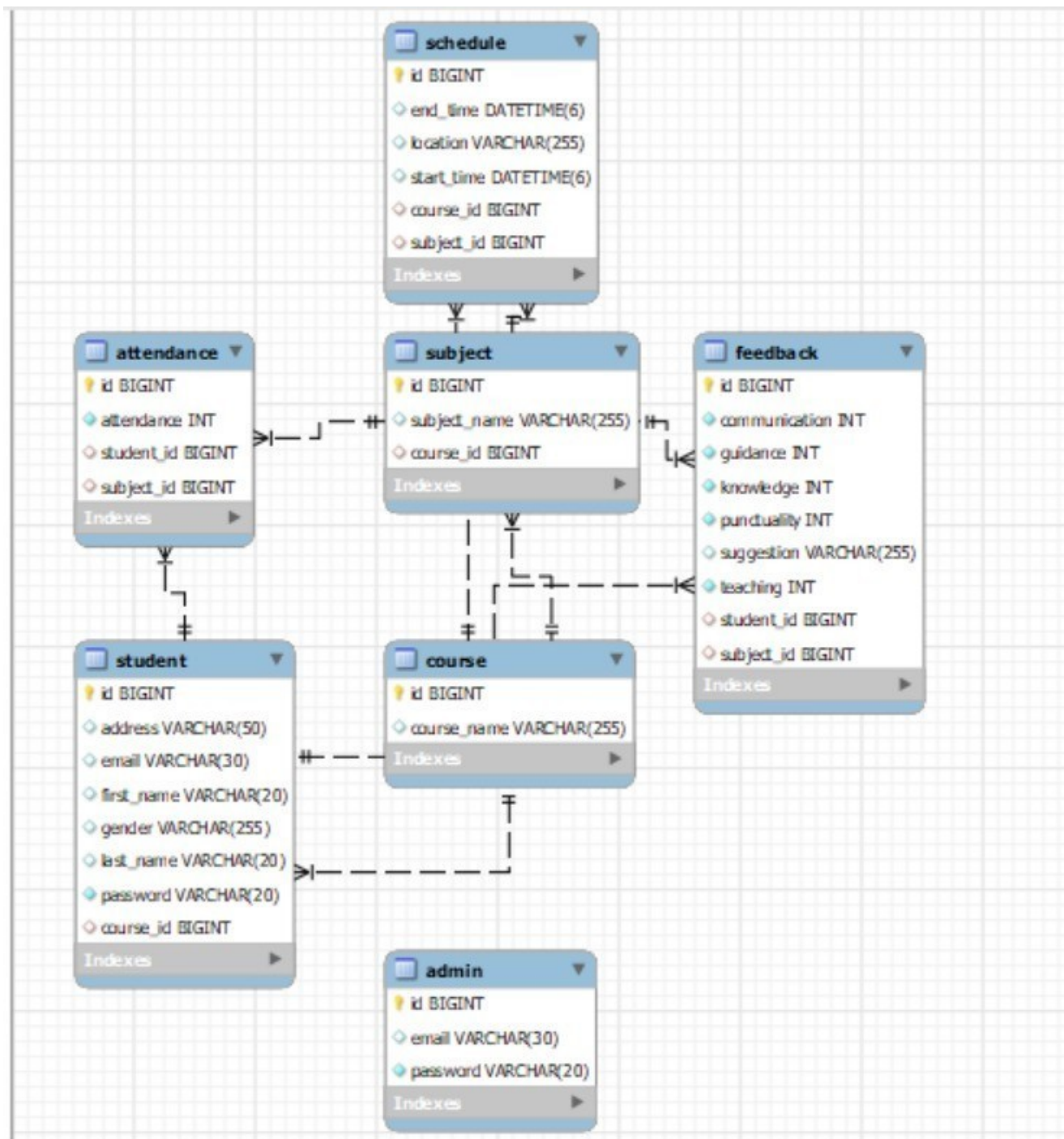
A. ADMIN



B. Student



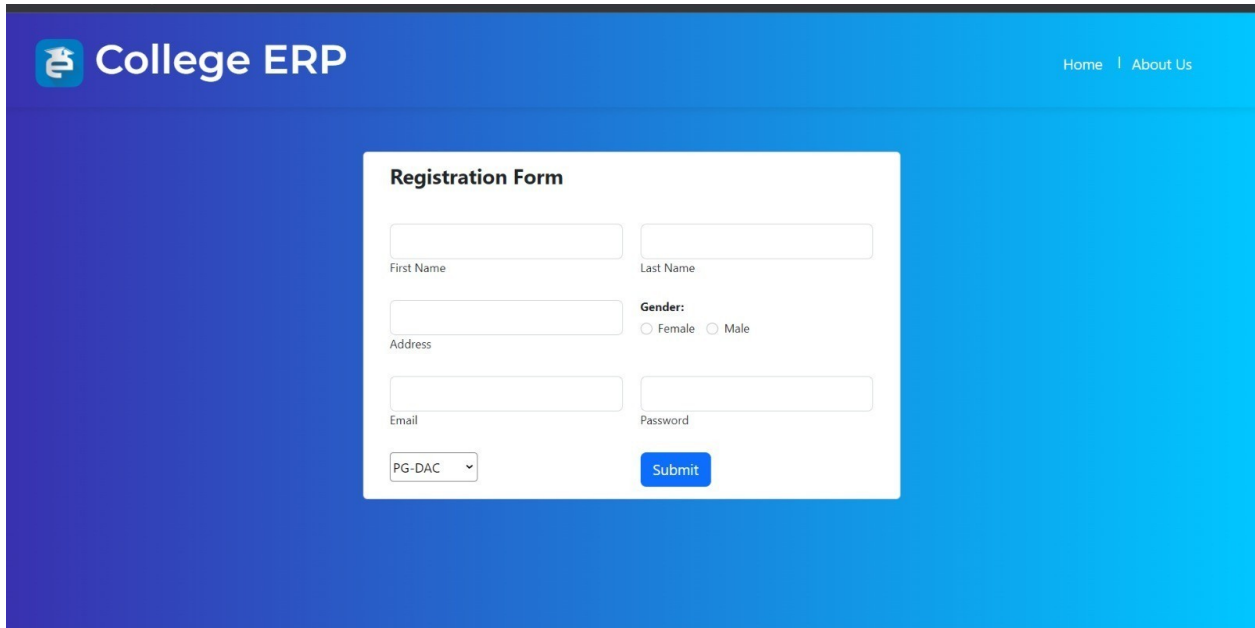
5.3. ER-DIAGRAM



PROJECT SCREENSHOTS

6.1. STUDENT

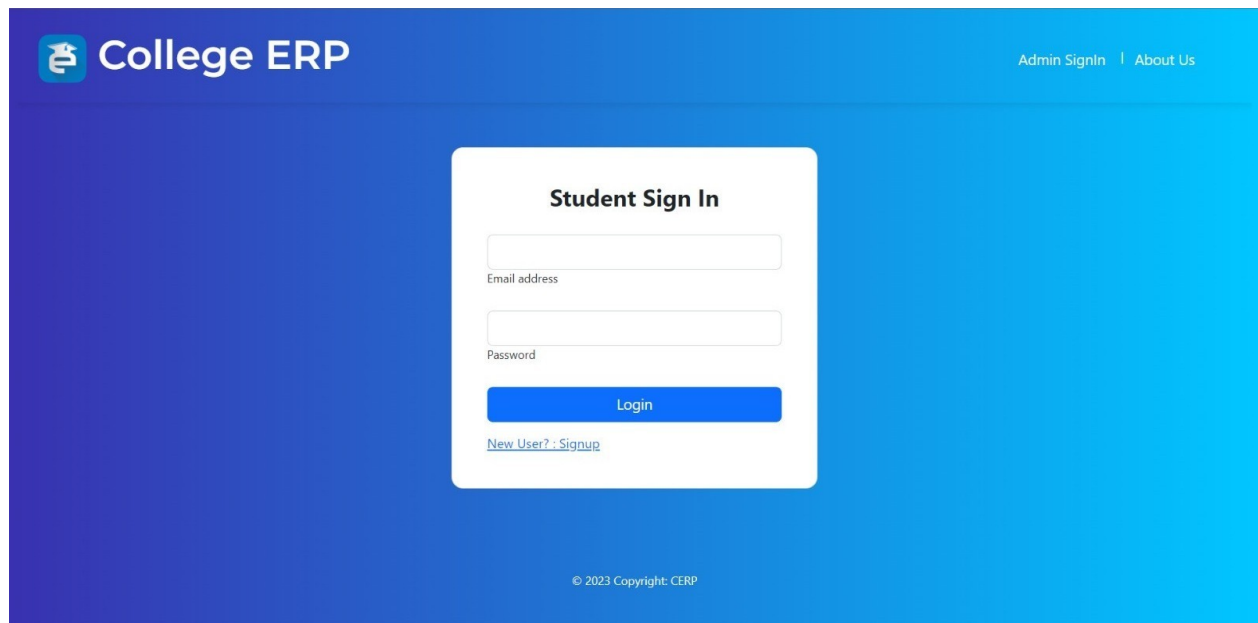
Register



The screenshot shows a web application titled "College ERP" with a blue header. In the top right corner, there are links for "Home" and "About Us". The main content area features a white "Registration Form" box. The form includes input fields for "First Name", "Last Name", "Address", "Email", and "Password". There are also radio buttons for "Gender" (Female and Male) and a dropdown menu for "PG-DAC". A blue "Submit" button is located at the bottom right of the form.

- Here they are asked to fill their personal details.
- Once the user has signed up then he won't be able to sign up again with the same email address.
- Email address should be a valid email address eg xyz@abc.com
- Password should be of minimum 6 characters.
- Password should consist at least one special character and one numeric character.

-After filling personal details , student sign up is completed and now Student can LOGIN via correct credentials.



The screenshot shows the 'Student Sign In' page of the College ERP system. The page has a blue gradient background. At the top left is the 'College ERP' logo. At the top right are links for 'Admin Signin' and 'About Us'. In the center is a white card titled 'Student Sign In' containing two input fields for 'Email address' and 'Password', a blue 'Login' button, and a link for 'New User? : Signup'. The footer contains the copyright notice '© 2023 Copyright: CERP'.

College ERP

Admin Signin | About Us

Student Sign In

Email address

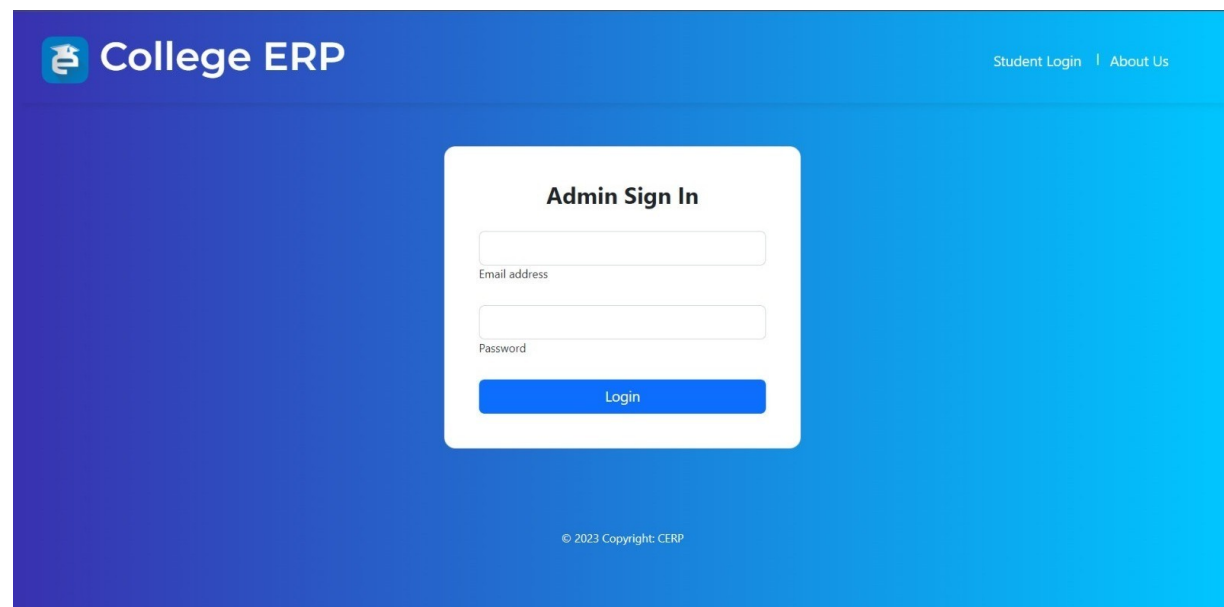
Password

Login

[New User? : Signup](#)

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-Admin can also sign in using correct credentials.



The screenshot shows the 'Admin Sign In' page of the College ERP system. The page has a blue gradient background. At the top left is the 'College ERP' logo. At the top right are links for 'Student Login' and 'About Us'. In the center is a white card titled 'Admin Sign In' containing two input fields for 'Email address' and 'Password', and a blue 'Login' button. The footer contains the copyright notice '© 2023 Copyright: CERP'.

College ERP

Student Login | About Us

Admin Sign In

Email address

Password

Login

© 2023 Copyright: CERP

On successful login, student enters into Dashboard



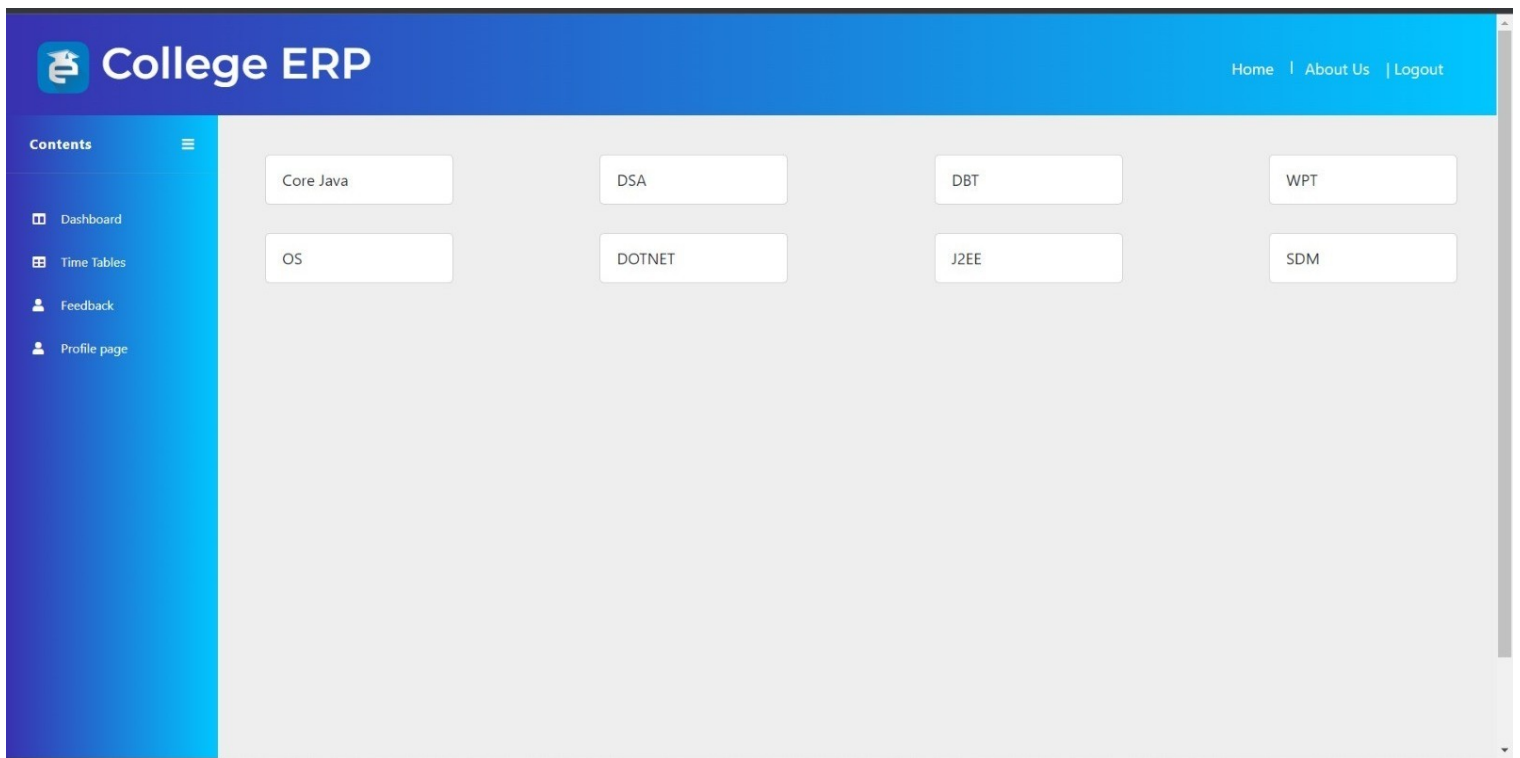
- Here the student can see his/her attendance till date in different modules in percentage.
- Green color shows the percentage of classes attended.
- Red color shows the percentage of classes didn't attend by the student.

The profile page displays the user's information and project results. On the left, there is a profile card for SaudMukhair, a male student in the PG-DAC course from Mumbai. Below the card are social media links for LinkedIn and Twitter. On the right, there is a form with personal details and a section for project results.

Field	Value
First Name	Saud
Last Name	Mukhair
Email	saud@gmail.com
Gender	Male
Course	PG-DAC
Address	Mumbai

Project	Result (%)
Web Design	75
Website Markup	70
One Page	85
Mobile Template	65
Backend API	70

- On navigating to “Profile Page” , Student can view the details he/she has filled during sign up.
- Based on the gender selected Automatic profile animation will appear.



- On navigating to Feedback page.
- Student can select the module for which they want to give feedback.

The screenshot shows the 'Feedback Form' interface. At the top, it has the 'College ERP' header and navigation links. Below the header, there are two input fields: 'Student Id' with the value '2' and 'Subject Name' with the value 'Core Java'. Below these fields is a table with 5 rows and 3 columns: '#', 'Fields', and 'Ratings'. The table contains the following data:

#	Fields	Ratings
1	Knowledge	★★★★☆
2	Communication	★★★★☆
3	Punctuality	★★★★☆
4	Teaching	★★★★☆
5	Guidance	★★★★☆

Below the table is a text area labeled 'Suggestions...' and a blue 'Submit' button.


- On navigating to “Time – Table” , student will be able to see the calendar of the entire month and the classes schedule on them.
- Student can change this view to “Week-wise” , “Day-Wise” or even for the entire year.
- By default it will be MONTH wise.

College ERP							Home About Us Logout	
< > March 2023 ▾							TODAY DAY WEEK WORK WEEK MONTH AGENDA	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
26	27	28	Mar 1	2	3	4		
5	6	7	8	9	10	11		
12	13	14	15	16	17	18		
		8:00 AM Core Java; Class 001	9:00 AM WPT; Class 001	10:00 AM OS; Class 001				
		8:00 AM Core Java; Class 001	9:00 AM WPT; Class 001	10:00 AM OS; Class 001				
		1:00 PM SDM; Class 001	6:00 PM DSA; Class 001	3:00 PM J2EE; Class 001				
		1:00 PM SDM; Class 001	6:00 PM DSA; Class 001	3:00 PM J2EE; Class 001				
19	20	21	22	23	24	25		
26	27	28	29	30	31	Apr 1		

-WEEK wise

College ERP							Home About Us Logout	
< > March 12 - 18, 2023 ▾							TODAY DAY WEEK WORK WEEK MONTH AGENDA	
	Sun 12	Mon 13	Tue 14	Wed 15	Thu 16	Fri 17	Sat 18	
9:00 AM				WPT 9:00 AM - 12:00 PM Class 001				
10:00 AM				WPT 9:00 AM - 12:00 PM Class 001	OS 10:00 AM - 1:00 PM Class 001	OS 10:00 AM - 1:00 PM Class 001		
11:00 AM								
12:00 PM								
1:00 PM			SDM 1:00 PM - 4:00 PM Class 001	SDM 1:00 PM - 4:00 PM Class 001				
2:00 PM								
3:00 PM					J2EE 3:00 PM - 6:00 PM Class 001	J2EE 3:00 PM - 6:00 PM Class 001		
4:00 PM								
4:48 PM								
5:00 PM								
6:00 PM				DSA 6:00 PM - 9:30 PM Class 001	DSA 6:00 PM - 9:30 PM Class 001			

-DAY wise

 College ERP

Home | About Us | Logout

< > March 12 - 18, 2023 ▾

TODAY | DAY | WEEK | WORK WEEK | MONTH | AGENDA

14
Tue

Core Java, Class 001
8:00 AM - 11:30 AM

Core Java, Class 001
8:00 AM - 11:30 AM

SDM, Class 001
1:00 PM - 4:00 PM

SDM, Class 001
1:00 PM - 4:00 PM

15
Wed

WPT, Class 001
9:00 AM - 12:00 PM

WPT, Class 001
9:00 AM - 12:00 PM

DSA, Class 001
6:00 PM - 9:30 PM

DSA, Class 001
6:00 PM - 9:30 PM

16
Thu


OS, Class 001
10:00 AM - 1:00 PM

OS, Class 001
10:00 AM - 1:00 PM

JZEE, Class 001
3:00 PM - 6:00 PM

JZEE, Class 001
3:00 PM - 6:00 PM

-Apart from these , Student can also navigate to “About” page which contains the information about the Institution.

 **College ERP**

Home | About Us

About Us

XYZ Institute of Technology The XYZ institute of technology is the oldest collage in town. As an internationally renowned centre for teaching and research, XYZ attracts students and scholars from across the globe, with almost a quarter of our students are from outside. More than 130 nationalities are represented among a student population of over 18,000. XYZ is a collegiate university, with 39 self-governing colleges related to the University in a type of federal system. There are also seven Permanent Private Halls, founded by different Hindu denominations. Thirty colleges and all halls admit students for both undergraduate and graduate degrees. Seven other colleges are for graduate students only; one has Fellows only, and one specializes in part-time and continuing education.

OUR ETHOS

Our foremost objective is to provide a happy and safe environment for the students which will foster learning and development. We work to ensure a strong foundation in academics as well as social, emotional and physical development of the students. Care, tolerance, hard work, honesty, self discipline are used as pillars for the foundation of students community, thereby enabling them to become moral, spiritual and responsible citizens. In XYZ we beleive in continioius growth of the student acadmically and with 50+ extra curriculom activity. We are an institution where excellence is a tradition and we believe that each student is special and has the potential to excel in many different spheres. The extracurricular activities emphasize at forging friendship and team spirit. These help to develop mental and physical strengths. We maintain a balance that matches the student's maturity, skill and his / her interests by breaking the monotony of routine student life. Thus, at this impressionable age the student will learn values such as discipline, responsibility, accountability, confidence and sacrifice thereby ensuring their positive role in the societ In conformity to our motto, we aim to provide quality education in Humanities, Commerce and Science. Through carefully crafted interaction and activities both within and outside the classrooms, we provide experiences that help the student to discover innate capabilities, set life long goals and proactively work towards their fulfillment. The College has as its backbone excellent infrastructure, updated teaching laboratories, large number of playgrounds and ample facilities for the students in the hostel and classrooms.

Contact Us

For more information , you can contact us to our toll free number 1800-1800-18 Or write to us at Enquiry@xyz.org.com

Features

Boarding Facilities XYZ Boarding House, is a beautiful state of the art boarding house which is the students second home where everyone is incredibly friendly and caring.

Hospital Facilities The college has fully equipped 30 bedded hospital with a medical officer and trained nurses living in the campus. Specialist doctors on call and on college retainer.

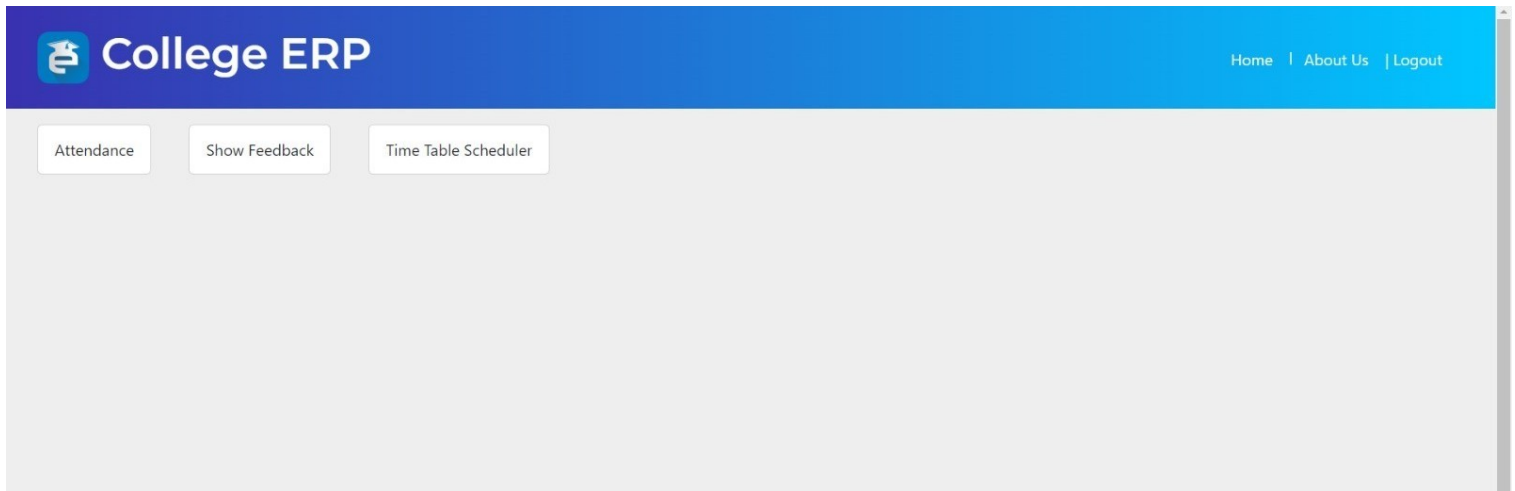
Mess Facilities The college has a big Dining Hall namely, Sarangarh Dining Hall which was inaugurated by Dr. Rajendra Prasad, the then President of India, where over 600 students can be served meals at a time. The boarders have their meals in the mess together. It provides both vegetarian and non-vegetarian food, cooked in separate kitchens.

Educational Facilities The educational facilities are a combination of classroom as well as sports facilities. The role they play in influencing the education, academic achievements and child health and well-being are all taken into account.

ADMIN

-When Admin Login, It will take him/her to Admin DashBoard.

Admin Dashboard



-Admin can add Attendance for each student for particular Subject of different module.

The screenshot shows the Admin Dashboard for College ERP with the Attendance module selected. The header is blue with the College ERP logo and navigation links: Home, About Us, and Logout. Below the header, there is a button labeled "Add Attendance". The main content area displays a table with student attendance records.

Student Id	First Name	Last Name	Attendance	Update Attendance
1	Disha	Murarka	80	Mark Disha Murarka
2	Rakshit	Jain	60	Mark Rakshit Jain
3	Saud	Mukhair	70	Mark Saud Mukhair
4	Anu	Joshi	90	Mark Anu Joshi
10	Ashi	Jain	78	Mark Ashi Jain
11	Nipun	Taunk	88	Mark Nipun Taunk
12	Aman	Bhadoriya	89	Mark Aman Bhadoriya
13	Abhinav	Shukla	81	Mark Abhinav Shukla
14	Yashvardhan	Chauhan	80	Mark Yashvardhan Chauhan
15	Pratik	Agrawal	92	Mark Pratik Agrawal
16	Deepesh	Kuwar	98	Mark Deepesh Kuwar
17	Kajal	Khidalkar	99	Mark Kajal Khidalkar
18	Divyangi	Aggarwal	97	Mark Divyangi Aggarwal

-Admin Can Also Add, Delete , Create and View the Schedules.

College ERP

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TODAY DAY WEEK WORK WEEK MONTH AGENDA

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28	Mar 1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23		
26	27	28	29	30	31	Apr 1

OS

March 16, 2023 (10:00 AM - 1:00 PM)

Class 001

College ERP

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28	Mar 1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	Apr 1

College ERP

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< > March 2023

TODAY DAY WEEK WORK WEEK MONTH AGENDA

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28	Mar 1	2	3	4
5	6	7			10	11
12	13	14			17	18
		8:00 AM Core Java; Class 001 8:00 AM Core Java; Class 001 1:00 PM SDM; Class 001 1:00 PM SDM; Class 001				
19	20	21	22	23	24	25
26	27	28	29	30	31	Apr 1

New Event

Title

WPT

Location

Room 001

Start

3/17/23 9:00 AM

End

3/17/23 9:30 AM

7:30 AM

8:00 AM

8:30 AM

9:00 AM

9:30 AM

10:00 AM

10:30 AM

SAVE

CANCEL

College ERP

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March 2023

TODAY DAY WEEK WORK WEEK MONTH AGENDA

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28	Mar 1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
		8:00 AM Core Java; Class 001 8:00 AM Core Java; Class 001 1:00 PM SDM; Class 001 1:00 PM SDM; Class 001	9:00 AM WPT; Class 001 9:00 AM WPT; Class 001 6:00 PM DSA; Class 001 6:00 PM DSA; Class 001	10:00 AM OS; Class 001 10:00 AM OS; Class 001 3:00 PM J2EE; Class 001 3:00 PM J2EE; Class 001	10:00 AM WPT; Room 001	
19	20	21	22	23	24	25
26	27	28	29	30	31	Apr 1

7. TESTING

One of the main purposes of testing is to validate and verify that the system works as intended. No program or system design is perfect. However, if we implement the system without proper testing, then it may cause problems and lead to a bad user experience.

Testing and checking outcomes of each test gives us the best chance to detect and correct errors before the system is implemented in a production environment.

In the course of our project, we made an effort to manually test each component. In all cases, we obtained the desired results as demonstrated below.

A. STUDENT FEATURES TEST

#	Description	Outcome	Result
1.	Sign up	Student will be giving some personal details and will be able to sign up. Student entry made successfully in database.	Passed
2.	Login as Student	User Id of students are fetched from database, otherwise login failure message will be printed accordingly.	Passed
3.	View Profile	All the Detail entered by student during sign Up viewd.	Passed
4.	Give feedback	Student was Able to give feedback	Passed
5.	View Time-Table	Student was Able to see timetable	Passed
6.	View Attendance	On the dashboard itself it was visible per subject.	Passed
7.	Get Schedule	Current Day Schedule is displayed on the dashboard.	Passed
8.	Log Out	Student was able to log out successfully and came to LOGIN page.	Passed

B. ADMIN FEATURES TEST

1.	Login as Admin	Fetches authenticated user details saved in database.	Passed
2.	Add attendance	Attendance added to the database .	Passed
3.	Update attendance	Attendance updates to the Database.	Passed
4.	View Feedback-List	Feedback for different subjects were visible	Passed
5.	Generate Schedule	Admin could successfully add the Event. Updated into the database as well.	Passed
6.	Update Schedule	Admin could update it as well. Changes reflected into database.	Passed
7.	Delete Schedule	Admin could delete well. Changes reflected into database.	Passed
8.	View Schedule	Admin can view the schedule.	Passed
9.	Log Out	Successfully logged out.	Passed

8. CONCLUSION

“CERP”, an online student management portal, developed by our project team to provide a platform for students belong to various school, college and educational institutes, to simplify the Admin work. We tried using the latest technologies that are cross-platform and robust. Almost all the software we used was open-source in nature, which keeps the cost of production at a minimum.

We were also meticulous about the user experience aspect of our application so that navigating our website is an easy and seamless experience.

In conclusion, “CERP” as a portal would definitely be beneficial for various colleges, schools or educational institutes for managing their students in Online Mode efficiently. We are confident that the numerous features and visually appealing look of the portal will definitely make this portal effective for all the students and admins. This portal can be scaled on higher side to add more features to it.

9. FUTURE SCOPE

Using whatever we have learn over the duration of this course, we tried to make our project as user-friendly and gave it as many features as possible in the limited time allotted for the project work. That said, there are certainly more features that can be added to our application. Some of those are mentioned below:

1. Admin functionalities can be improved for larger scale.
2. More number of courses can be added in the app.
3. If a user forgets password, OTP can be sent to his/her registered mobile number and registered Email Id to reset password.
4. Students can also view their results and will be able to access the course repository wherein they will have all the necessary study material required.
5. Students will be able to submit their assignments and give online tests on the portal itself.
6. We can also add feature like 'community center' for all the students of the institution.
7. ALUMNI section can also be introduced on the main page.
8. CAPTCHA can be added to login page.
9. Overall portal can be built on a higher scale so that all functionalities of student management for all courses offered in institution work inside this one portal only.

10. REFERENCES

Following is the list of websites we referred during the course of our project:

1. <https://getbootstrap.com/docs/5.1/getting-started/introduction/>
2. <https://www.baeldung.com/>
3. <https://www.w3schools.com/>
4. <https://docs.spring.io/spring-data/jpa/docs/current/reference>
5. <https://javaee.github.io/javaee-spec/javadocs/>
6. <https://javadoc.io/doc/org.springframework.data/spring-data-jpa/latest/index.html>