Government Polytechnic, Washim

Maharashtra State Board of Technical Education, Mumbai.

Academic Year 2022-2023

A
Project Report
On

"Student College Smart Card Using RFID"

Submitted By

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DEPARTMENT OF INFORMATION TECHNOLOGY

Government Polytechnic, Washim

CERTIFICATE

This is to Certify that the project report entitled "Student Smart Card Using RFID" Was successfully completed by Student of sixth semester Diploma in (Information Technology).

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In partial fulfilment of the requirements for the award of the Diploma in Information Technology and submitted to the Department of Information Technology of Government Polytechnic, Washim work carried out during a period for the academic year 2022-23 as per curriculum.

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DEPARTMENT OF INFORMATION TECHNOLOGY

Sponsorship Certificate

This is to certify that following students of Third Year, Information Technology has assigned the project for **INDIA'S FOUNDATION SCHOOL (MANGRULPIR)** for Students The project is assigned on date 01-02-2023 and is permitted to take required information required for the project only as granted permission. The Title of the project is **Student Smart Card Using RFID** This project is technically sponsored by INDIA'S FOUNDATION SCHOOL (MANGRULPIR) and will be used after successful completion and deployment. Students need to demonstrate the project before handing over to institute.

Name Of The Students

1.Parag Umale

2.Leena Kale

3.Vidhi Wakode

4.Gauri Chiddarwar

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We are also thankful to all other staff members of our department who haveprovided helping hand to reach the pinnacle of the success.

We sincerely thank those all who helped us to complete design of the project.

Name Of The Students

1.Parag Umale

2.Leena Kale

3.Vidhi Wakode

4.Gauri Chiddarwar

ABSTRACT

In this project that Student College Smart Card Using RFID we have tried to show how the data or information in smart card. This is just an overview of student smart card. In existing system in which observations are made on the running system for troubleshooting. System analysis can occur in either the developmental stage of a system or it can be conducted on an existing system. Proposed system is designed for resolving the problem of existing system. In this capstone project report, introduction, literature survey and proposed methodology.

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Chapter 1

Introduction & Background

This project report is prepared for capstone project planning of 5th semester capstone planning is designed for Student College Smart Card With Bonafide.

This Chapter consist of following section . Section 1.1 discussed about section 1.1 Introduction. Background is describe in section 1.2. Section 1.3 describe Organization of project.

1.1 Introduction:-

Capstone project planning report each prepared for documentation of Student College Smart Card With Bonafide. This College Smart Card using java , php , css , java -script html languages etc…

STUDENT SMART ID CARD

Student smart card application helps students as well as staff to manage official documents management, canteen bill payments, library management in college, schools and educational institutes. It is based on INTRANET. It is also helps students to pay their canteen bills just by using their smart card number which can be recharged through admin and can also be used in Library for book management and fine payment by stude

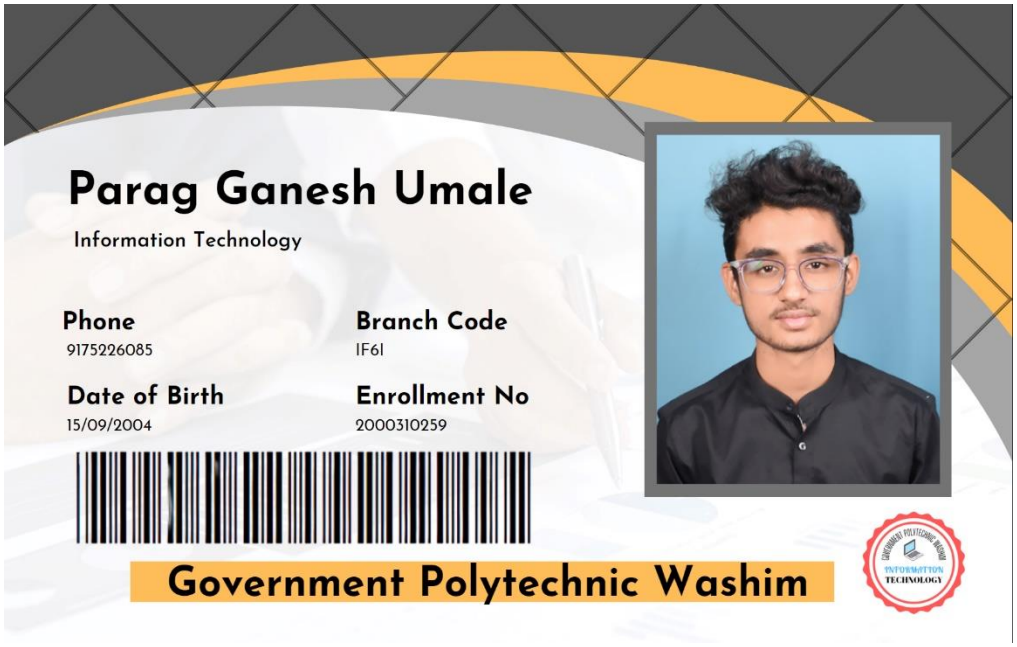


FIGURE 1.1.1:- SMART ID CARD DESIGN

BONAFIDE CERTIFICATE GENERATOR

Bonafide certificate generator is a web portal app that generates students bonafide certificates. You should only fill the important information about student then submit the button your bonafide of student will ready for print and save as PDF.

1.2 Background

Take a look in your wallet and what do you find? Notes, coins, a driver's license, credit cards, an identification card, automatic teller machine cards (ATM card), a library card and other more cards. These cards have become a very important part of your life. Soon all these documents will be replaced by just one or two smart cards

Smart cards are being used in a number of ways around the world, replacing a wallet's content bit by bit By adopting smart card technology one card can be used for all This many organizations including educational institutes such as universities currently use bar coded cards as their means for identification and it is not used for any other purpose.

The new student card system will give the benefit to students as well as the university and institutes. By using smart card technology, the student card will be more powerful, more versatile, and more reliable. As it's unique bar code will be used at every places like for college server. Fig. 1, illustrates some uses of smart cards in an educational institute, as seen below it will have some functionalities.

1.2 **Organization of the Project**:-

Why Smart ID is The Smart Choice

FIGURE 1.2.1 :- SMART ID IS THE SMART CHOICE

The most forward-thinking colleges and universities are now embracing smart ID cards that add an extra level of security and efficiency to any campus. Scholarship's smart card allows a student to provide identification, make purchases, allow secure door access, pay for classes, disburse monies to student accounts, and let administrators know which students are in which classroom, hall, or building, in real time. This data provides a host of reports that can increase campus safety, help students succeed, and improve administrative efficiencies.

This capstone planning project report includes following Chapters-
Chapter-1 Describes Introduction and background. Literature survey is discussed in Chapter-2. Chapter-3 Elaborates Proposed Methodology with actionplan.

Conclusion of the report is discuss in Chapter-4. The report end with references and bibliography.

Summary

In this Chapter Introduction and Background is discussed. In the next Chapter literature survey we will discussed.

Chapter-2

Literature Survey

Literature survey provide information system it also capture about the literature of existing.
This Chapter consists of following section. Section 2.1 discussed about section 2.1 Working of Existing System. Problem definition is described in section 2.2. Section 2.3 describe Requirements Gathering.

2.1 Working of Existing System

This process helps you to know the ins and outs of a system. In which observations are made on the running system for troubleshooting. System analysis can occur in either the developmental stage of a system or it can be conducted on an existing system

2.2 Problem Definition

A smart card is a physical card that has an embedded integrated chip that acts as a security token.

Smart cards are typically the same size as driver's license or credit card and can be made out of metal or plastic.

They connect to a reader either by direct physical contact -- also known as chip and dip.OR Through a short-range wireless connectivity standard such as radio-frequency identification (RFID) or near-field communication

When we spend money for library, canteen and stationery activities that time one should keep record of that and provide a receipt to us.

We proposed the student college smart card application in the form of website. As a part of our analysis, I came to know what the problems of students were. A lot of manual work and the data needs up gradation.

The Staff and the head of their branch were interviewed to find what features were exactly needed in application.

2.3 Requirement Gathering

General requirements

Construction project of campus Smart Card of colleges and universities should be based on systems of shared library, unified identification platform to construct " Smart Card" system centralized platform, which includes general management platform, identification platform, student's fingerprint registration and other subsystems. With the advantage of college net resources, the campus card could identify student's card, employee's card, library card, medical card, computer card, breast card and etc. With the wallet function of campus card, the carrier could consume at various comprehensive consumption sites, for example, dining at the dining hall, purchasing in the supermarket, bathing in the bathroom, self-help washing, surfing on the net, paying fines of overdue books, self-help purchasing water and electricity. Thus the campus smart card with comprehensive consumption could be realized. Through the connection with the financial and bank systems, the campus card could realize the functions of deposit and transference, auto accounting, withholding remitting on campus, as well as consumption inquiry. Thus the campus card with financial service could be realized.

2.3.1 Hardware

- Minimum core i9 or any other processor with similar content :-
  Use for fast performance

- 16 GB RAM :-
  Use for fast performance

- 1TB SSD :-
  For store the data on pc

- RFID Reader/Writer :-
  To Read the data on the machine
  To Write the data on RFID smart card

- Barcode Reader :-
  To Read the barcode on their student smart ID card

- Barcode Printer :-
  To Print the barcode on the card.

- Other devices must be in working conditions.

2.3.2 Software

- Arduino etc

  Arduino is an open hardware development board that can be used by tinkerers, hobbyists, and makers to design and build devices that interact with the real world. And we use for NODEMCU & ARDUNIO coding.

- MySQl

  To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. To add on data on website for student bonafide, library management canteen etc….

- PHP My Admin

- To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. Support The Server.

- MS-Excel

  To Store the data on attendance of students.

  To Write the data for barcode.

- ETC

Summary

In this Chapter Literature Survey is discussed. In the next Chapter Proposed Detailed Methodology we will discussed.

Chapter-3

Proposed Detailed Methodology

Proposed Detailed Methodology
This Chapter consist of following section. Section 3.1 discussed about section 3.1 Introduction. Background is describe in section 3.2. Section 3.3 describe Organization of project.

3.1 Feasibility Study

The main of this project to provide a system that automatically records student data in attendance and in library systems which makes it easy to handle, errorless and systematic. Also, there is a provision of avoiding proxy that is usually encountered in educational institutions. To properly define the scope of the project, it was necessary for us to know and learn about product design and development and its stages.

3.1.1 Economically Feasibility

Yes this project is Economically feasible or cost effective Because:-

When system is installed and implemented then how many hours are required to put in and cost of the development also be considered most common known as cost/benefit analysis. It is the measure of cost-effectiveness of a project or the application developed.

The proposed application is economically feasible as there are no changes to be made in the configuration.

As the application is user friendly and does not require any professional knowledge, no cost is incurred for a professional person to work on the system.

Technically Feasibility: -

All the team members having the skill of handling the Python, Java, MySQL Etc…

Considering the time value for delivering the application to users, needed to select a programming language and a database which will help in fast development and provides required features as well. Keeping these 2 points in mind ASP .NET C# and MS SQL SERVER 2008 were finalized for the development purpose as they were satisfying both the criteria's.

3.2 Pie Chart

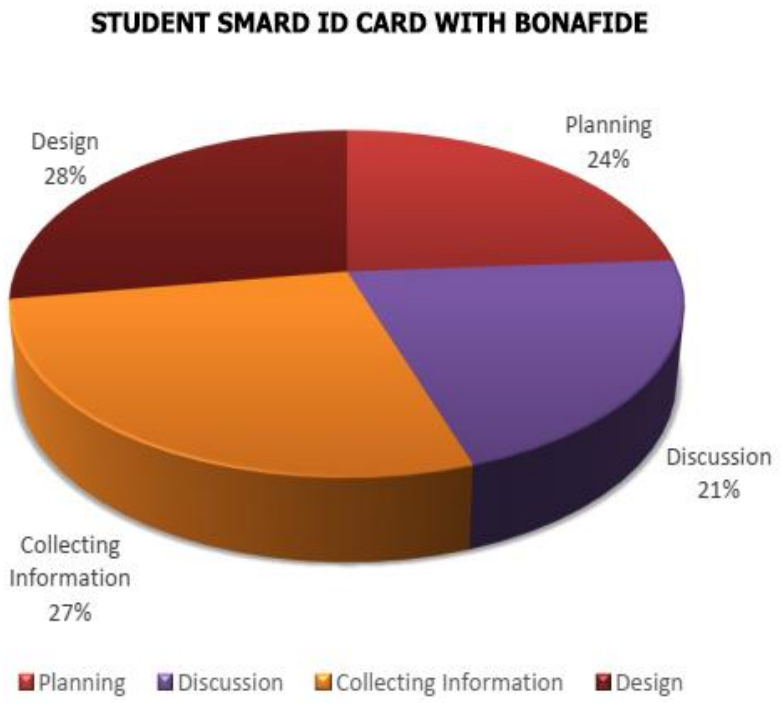


FIGURE 3.2.1 :- PIE CHART

The pie chart of total 16 weeks where in

First 4 week : -

- Fisrt of all we search the topic the for the project and discuss about it with mentor
- We planned what we have to do what feature we require we need the project .
- Over all planning done in this week

Second 4 week : -

- In this week discuss about n which language we have built the project
- Also the database all things related to the project were and discussed with mentor
- The mentor suggested us many important things

Third 4 week : -

- All the information and data related to the project is collected

Last 4 week : -

- In this last week we worked on the design and interface want want to design in the app
- And features and how it will work in the background

3.3 Design of Proposed System

Proposed Solution Strategy

In this project we aim that it is developed to ease the work of student's, involves a card containing a barcode which is nothing but a unique card that is given to each student. The smart card can be used at many places like office, library and canteen. The amount (balance) in the card can always be refilled with the help of admin. The unique id is stored in the barcode when the barcode is scanned the balance is deducted from the students account that is associated with the unique id. The unique id is scanned with the help of barcode scanner It can also be used to store important documents. This is done by scanning the unique id stored in the card which in turn is been sent to the server where the student's documents stored Thus the user doesn't have to carry its documents always with him. The student can use this card in office to pay fine and the amount will be calculated depending on the information stored in database which is retrieved by scanning the unique id on the card. It can also be used in stationary shop and canteen. Thus this makes very easy for a student he just needs to carry a portable card which will be very secure.

Working of proposed system

The system is divided into 1 Central module, 3 modules and 5 sub modules Proposed system is divided in some main modules they are as follows:

Attendance:

This module records attendance of student with the help of barcode printed on smart card of student and stores it into the database. The data recorded by the module is entered directly into the database hence overcoming the manual efforts that take places in
current scenario. The data can be further used to to manipulate or carry out operations on it.

Canteen:

This module will be operated by the staff members, the module handler will take care of recharging the students monetary balance in the card and also the bill payment in the canteen will be carried out using this card.

Library:

In library the book keeper can assign book to a particular student on the unique ID that would be generated by the smart card, it will also keep track of late returning of book and will automatically levy fine upon the particular student.

Architecture

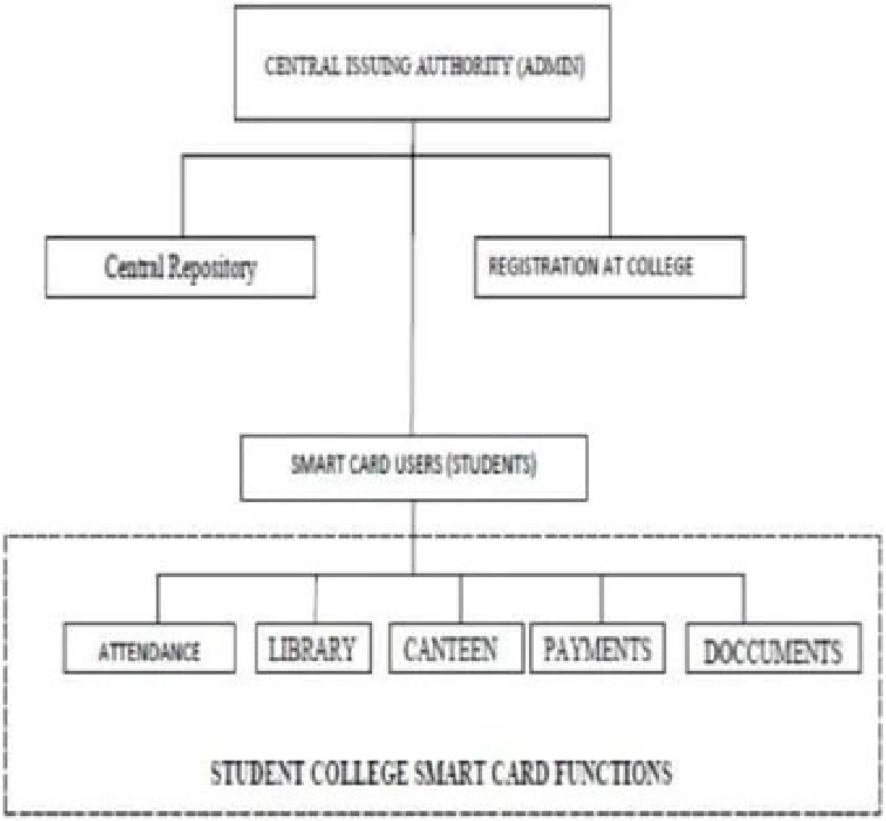


FIGURE 3.3.1 :- BASIC ARCHITECTURE OF THE SYSTEM

The Flow of Proposed System Of Student Smart ID Card

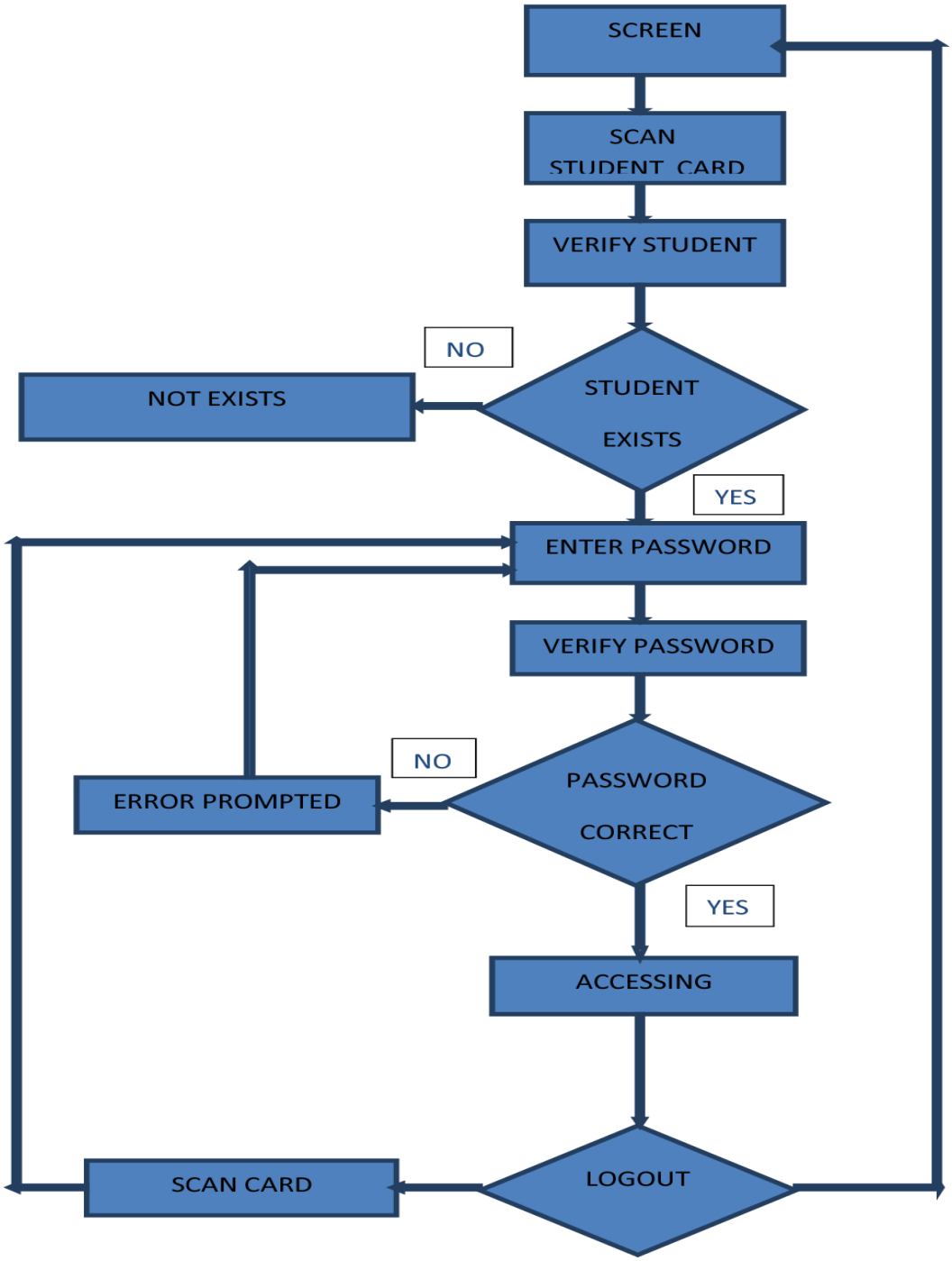
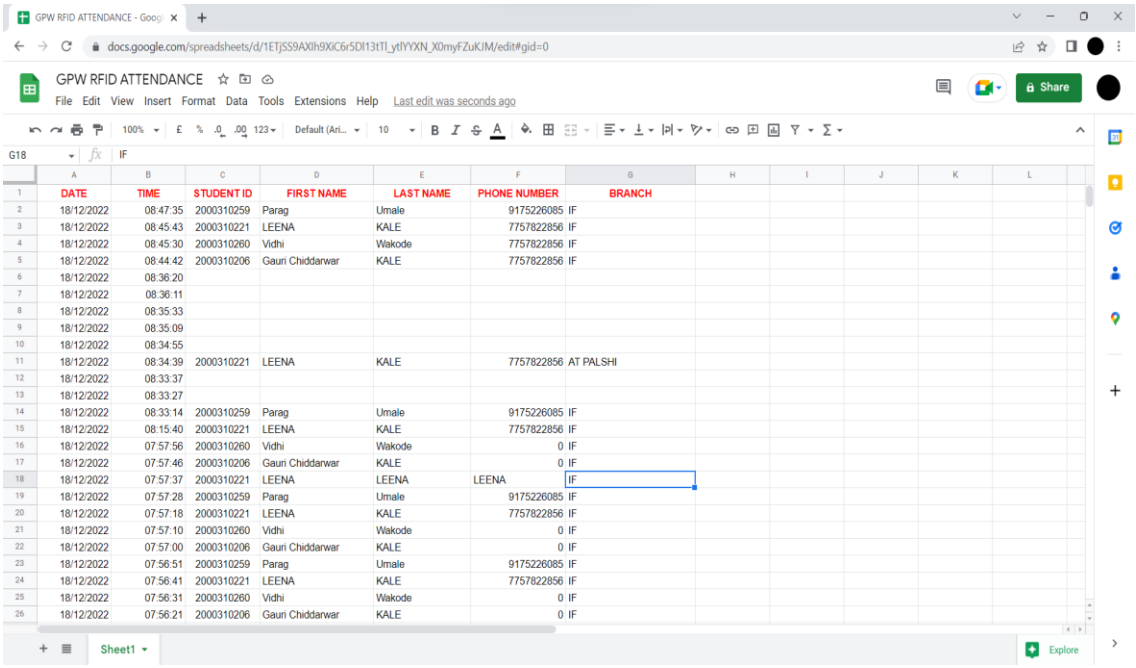


FIGURE 3.3.2 :-FLOW CHART OF PROPOSED OF STUDENT SMART ID CARD

The main of this project to provide a system that automatically records student data in attendance and in library systems which makes it easy to handle, errorless and systematic. Also, there is a provision of avoiding proxy that is usually encountered in educational institutions. To properly define the scope of the project, it was necessary for us to know and learn about product design and development and its stages.

FIGURE 3.3.3 ATTENDANCE SYSTEM

FIGURE 3.3.4 THE RFID READER



DATE	TIME	STUDENT ID	FIRST NAME	LAST NAME	PHONE NUMBER	BRANCH
18/12/2022	08:47:35	2000310259	Parag	Umale	9175226085	IF
18/12/2022	08:45:43	2000310221	LEENA	KALE	7757822856	IF
18/12/2022	08:45:30	2000310260	Vidhi	Wakode	7757822856	IF
18/12/2022	08:44:42	2000310206	Gauri Chiddarwar	KALE	7757822856	IF
18/12/2022	08:36:20					
18/12/2022	08:36:11					
18/12/2022	08:35:33					
18/12/2022	08:35:09					
18/12/2022	08:34:55					
18/12/2022	08:34:39	2000310221	LEENA	KALE	7757822856	AT PALSHI
18/12/2022	08:33:37					
18/12/2022	08:33:27					
18/12/2022	08:33:14	2000310259	Parag	Umale	9175226085	IF
18/12/2022	08:15:40	2000310221	LEENA	KALE	7757822856	IF
18/12/2022	07:57:56	2000310260	Vidhi	Wakode	0	IF
18/12/2022	07:57:46	2000310206	Gauri Chiddarwar	KALE	0	IF
18/12/2022	07:57:37	2000310221	LEENA	LEENA	LEENA	IF
18/12/2022	07:57:28	2000310259	Parag	Umale	9175226085	IF
18/12/2022	07:57:18	2000310221	LEENA	KALE	7757822856	IF
18/12/2022	07:57:10	2000310260	Vidhi	Wakode	0	IF
18/12/2022	07:57:00	2000310206	Gauri Chiddarwar	KALE	0	IF
18/12/2022	07:56:51	2000310259	Parag	Umale	9175226085	IF
18/12/2022	07:56:41	2000310221	LEENA	KALE	7757822856	IF
18/12/2022	07:56:31	2000310260	Vidhi	Wakode	0	IF
18/12/2022	07:56:21	2000310206	Gauri Chiddarwar	KALE	0	IF

FIGURE 3.3.5 :- ATTENDANCE STORE IN SHEET

A. Central module (Central issuing module) or (ADMIN):
Working of Admin is to scan, verify and generate the smart cards for students. It is the central module or the module with the highest authority in the system. The work of Admin is to observe and maintain every other module.

B. Central repository:
Central Repository is the central Database in which data and documents for every student is stored.

C. Registration at college:
It is the stage when the students are just admitted in the college. At this module student is register for the first time in college. Administrators scans the documents of the student and saves in the central database. At this password for payment in canteen and library also generated.

D. Smart card users (students)

E. Attendance:
This module records the attendance of every student with the help of RFID tag present in their ID card. The attendance taken using card entered directly into the Central Repository or central database. It reduced the human intervention during the manual attendance present current system. The data stored in the database can be further used for operations.

F. Library:
In this module the book keeper can assign the book to a student using their smart card using the Unique ID that would be generated during the book assign process. This module will track time period for which the book is rented and automatically generate the fine upon the particular student.

G. Canteen:
This module will be operated by the members of canteen. This module will take order from the student and take care of the payment using card. In this module students can also be recharge their card.

H. Payment:
This module handles the payment of the student using point based system which can be recharged in canteen, library, and admin office. It has the character of non-contact reading and faster reading speed. It could run offline. When the tolling POS runs offline, it could automatically judge whether there is balance in the card, whether the card is reported for loss or whether it has been written off without relying on the database of the host computer, i.e. it could verify the validity and legality of the card efficiently.

Identifying platform of campus Smart Card is mainly responsible for the summary and comprehensive settlement of the identified information in it.

Identity authentication application: Identity authentication system, RFID attendance system, access control system, attendance system, personnel supervision, door access system, barrier-free access system.

Identity authentication. Smart card access control and lock management system are mainly to safely and efficiently control access to the passage. Access control system is mainly divided into: entrance-exit inspection control, electronic lock access control, lock and channel director control.

Attendance management system could realize the function of checking on work attendance, offering multiuser monitoring and sound alarming. The function of checking on work attendance refers that it could make statistics of the card reading information when the employees going to and from work, and ultimately it could give the attendance information, absence information, and information of asking for leave and information of working overtime. This product could monitor at the same time the card reading information of many people and through the user terminal the personal's information could be read. If there were someone who uses the card illegally, the system will send audible alarm.

Barrier-free access system could realize 24-hour uninterrupted video monitoring and linkage channel control. When the holder enters or exits the channel and has his card read actively, the system could judge his validity quickly and correctly. The illegal identity or those with no cards would be screened and meanwhile it could start the sound light alarm and takes photos. So that it could avoid the low efficiency of traditional channel in checking personnel's identity and the crowd Ness thus caused. It could also prevent tailers and sneakers. In emergent cases it could also evacuate the personnel quickly.

The Proposed System Of Student Smart ID Card (Include Libray Management)

FIGURE 3.3.6 :- THE STUDENT SMART ID CARD (INCLUDE LIBRAY MANAGEMENT)

How a Student Smart Card Makes the Librarian's Job Simple

For effortless productivity, smart cards are used in almost every department of educational institutions.

More and more educational centres are installing a smart card system to reduce costs and improve the productivity of their staff.

Among all the other departments, **library management** is one of the most appreciated uses of smart cards. Smart cards allow students to access books easily. At the same time, those smart cards benefit the librarians as well.

Easy Management of Shelved Books

With smart cards and **RFID systems**, a librarian doesn't have to invest too much time managing the shelved books. The digital system provides a whole database of books in the shelves along with its order.

The librarian just has to give a quick digital check to see the shelved books. He or she can easily find out the location of every book in the library along with the number of books and other relevant information.

Reduction of Circulation Duties

Circulation duties involve tagging the books when issuing, collecting the necessary information about the students and doing it one by one for every student in the library. Student smart cards resolve a librarian from such duties.

The card reader can read multiple cards and complete the tagging process at one time, which is why librarians can focus more on providing face-to-face assistance and keep their circulation services fast and simple.

Easier Inventory Management

Book inventory check-up takes no time with a smart card system. With RFID technology intact, a librarian can keep an eye on the inventory all the time. The number of books in the inventory, its location, and the sorting process becomes way easier with the help of an integrated database system.

The quality management of inventory also allows students to easily check the books' availability using their smart card, which saves a librarian from answering a thousand questions regarding books' availability.

Security from Thefts

The detection rates of smart cards are 100%. These modern technologies reduce the stress of a librarian regarding the potential thefts. Card readers can read accurately all the items and register the identities of every student taking the books.

With this advanced accuracy, the machine becomes the best friend of a librarian in managing the circulation smoothly. No item can go out of the library without getting tagged. As a result, librarians have to invest less effort in the security of books.

Due Date Reminders

One of the most challenging jobs for librarians is to manage the due dates. Every time a student forgets to submit the issued book on-time, it increases the job of a librarian.

Daily evaluation of issued books and their due dates take a huge time of the day.
Then, the librarian has to call students to remind them about the book submission. All this is an unnecessary increased amount of work.

With **smart cards**, students get reminders about the due dates, which decreases the chances of overdue. At the same time, librarians get to maintain an automated collection of due dates for issued books.

This way, a librarian simply needs to act as per the reminders without taking any excess stress.
Most students start returning their books on time, so librarians get to save a lot of time from the unnecessary task of calling to remind students. The smart card does the job of a librarian

Smart Card Overdue Fine Collection

Even with the notification of due dates, some students can fail to return the issued books due to several reasons. In that case, they are required to pay a fine for late return.

Generally, a librarian has to collect the book along with the fine. Then, he or she has to make an entry including the name of the student along with other information regarding the book and the given fine.

Moreover, the librarian has to keep the collected money safe and stress about the security of that money until it reaches the higher authorities.

With smart cards, the whole process of fine collection becomes a simple, stress-free formality for the librarian. A simple read of the smart card collects all the information regarding the student.

At the same time, students pay their fine using their smart card, which sends the money directly to the official institution accounts So, the librarian doesn't have to worry about the collection of fine or keeping the actual cash safe in his/her possession.

Easy Access to Student Records

From time to time, librarians require student records to library management. Manual records make this process too hectic, as it requires searching from page to page to find the desired profiles.

Smart cards provide a digitized database, including all the records regarding every student who has ever entered the library. So, a librarian can simply make a single search to find the records of students.

This search can include various filters such as names, dates, class, book type and others, depending on the manufacturer you choose for smart cards.

Improved Library Attendance Management

For schools and colleges, **student attendance** matters in libraries as well. Authorities desire a complete record of where and when students go within the premises of the institution.

Hence, librarians are asked to maintain an attendance record of all the students who visit the library. This attendance record usually includes the name, class and other necessary information about a student along with the time of entering and exiting the library.

Smart cards make this complicated task effortless for librarians. Students simply use their smart cards to enter and exit the library, which allows the system to collect all the attendance related information automatically. The librarian doesn't have to do anything.

With all the job benefits of smart cards, this technology reduces the stress level for librarians. At the same time, the productivity of librarians improves to a whole new level.

FIGURE 3.3.7 :- LIBRAY RFID MANAGEMENT SYSTEM

FIGURE 3.3.8 :- DIGITAL LIBRARY MANAGEMENT SYSTEM

RFID Library Management Systems ease the management of libraries and book inventory. UHF RFID can reduce manpower on efforts of check in/out books, preventing theft and tagging books. JA Security can deploy simple RFID based solution for offices which has a library for its employees.

How does the borrowing or return of book process work?

Library in-charge scans **Staff ID of borrower** on the RFID Desktop Reader.

Library in-charge scans Book on the RFID Desktop Reader.

Software records that the book is borrowed or returned, with timestamp. Data captured in Library Management CMS.

Library Management system sends email alerts upon borrowing and return, as well as email reminders as due date of return nears.

Users Of Library Management

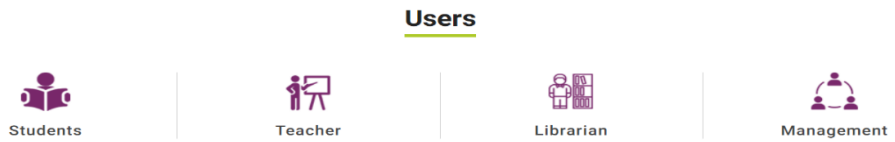


FIGURE 3.3.9 :- USERS OF LIBRARY

For Users (Students/Teachers)

- Can borrow & return books easily
- Extend due date
- Users can easily check in/check out
- Request new books
- Extend due date

For Librarian

- Librarians can track the issue and return date of books
- Details of the book taken
- Number of books issued
- Automatic fine calculation for late returns

Backend System Architecture

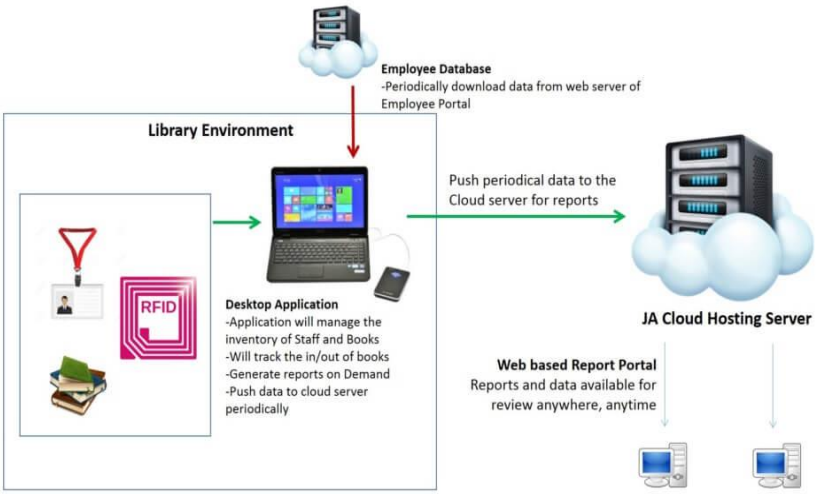


FIGURE 3.3.10 :- BACKEND SYSTEM ARCHITECTURE

Features of Library:-

Admin Login-The admin can login and can refill the balance of the student's card.

Student Login-The Student can login and view balance and last five transactions which will help him to be aware of his card balance and accordingly refill it whenever required.

Account maintenance-The admin is responsible for maintaining the accounts of the students holding the card.

ID scanning- The card is being scanned to deduct cash amount from the user's account or get the student's important documents.

Payment of fine-This ID on the card can be scanned to pay fine for the library books.

Payment for stationary items-The card can also be used to pay for stationary items.

Document Carrier-The card's unique ID can be used to retrieve the important documents(results,) of the student stored on the server. Thus the student doesn't have to carry the hardcopy of the documents always.

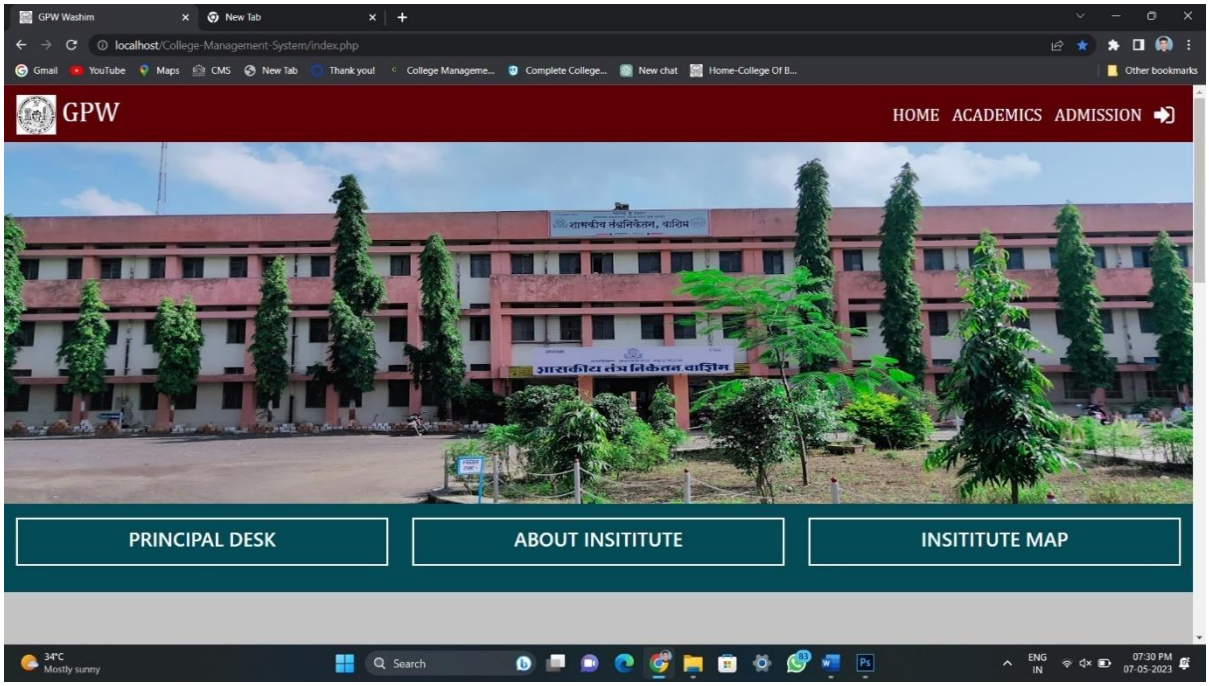
Summary

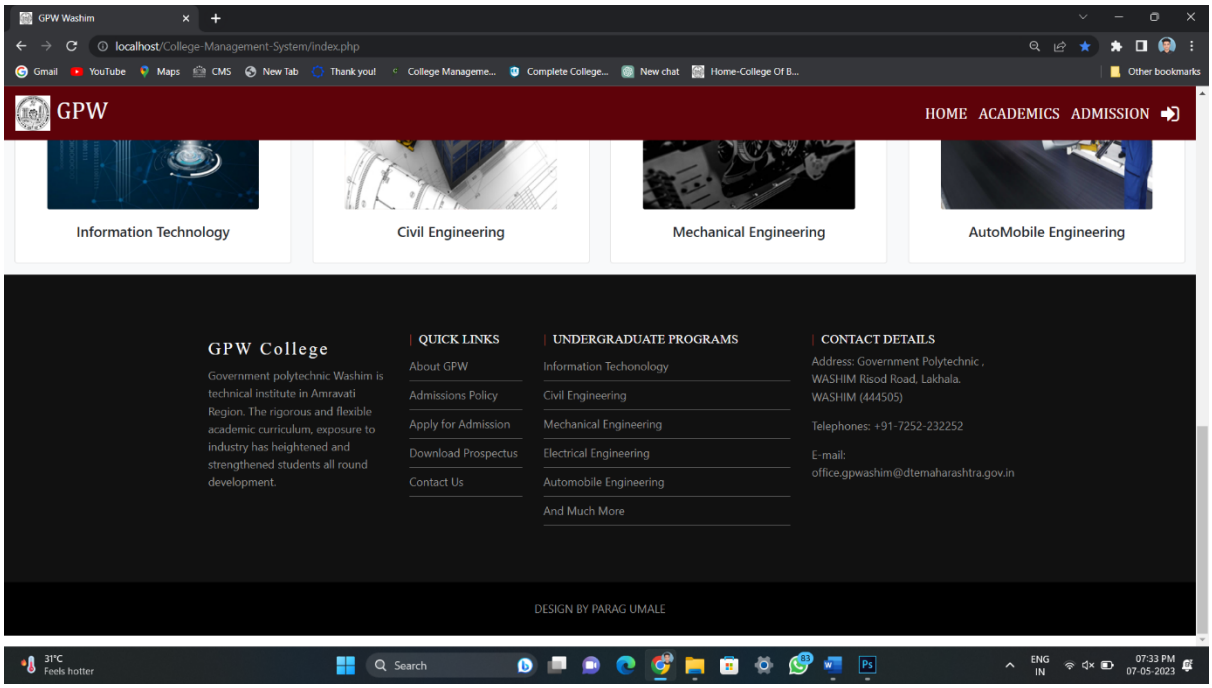
In this Chapter Proposed Detailed Methodology is discussed. In the next Chapter Conclusion and Reference, we will discussed.

Chapter 4

“Working & Processes”

HOME PAGE





HOME:

Navigation Menu:

A navigation menu should be included at the top of the home page to help users navigate the system. It should include links to various sections such as student information, faculty information, academic records, course management, etc.

Login:

A login button or form should be included on the home page to allow users to log in to the system. Depending on the user's role (student, faculty, administrator), they may have different levels of access to the system.

Announcements:

The home page should display important announcements such as upcoming events, exam schedules, registration dates, etc. It can also include news articles related to the college or university.

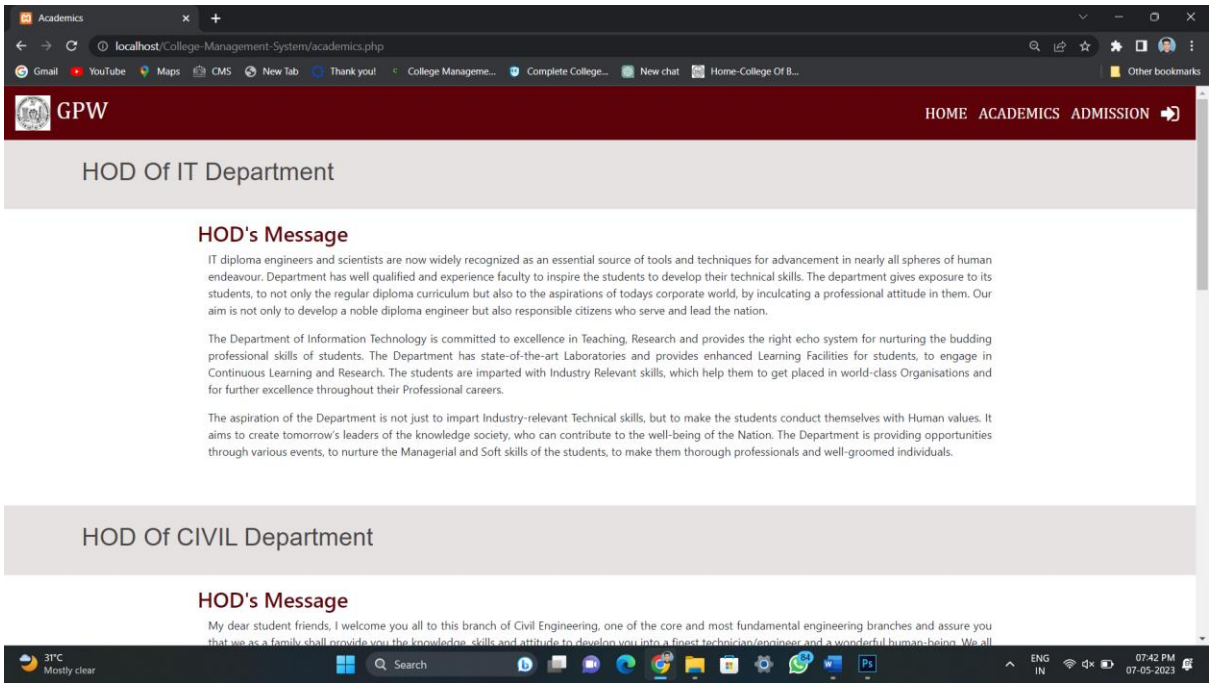
Quick Links:

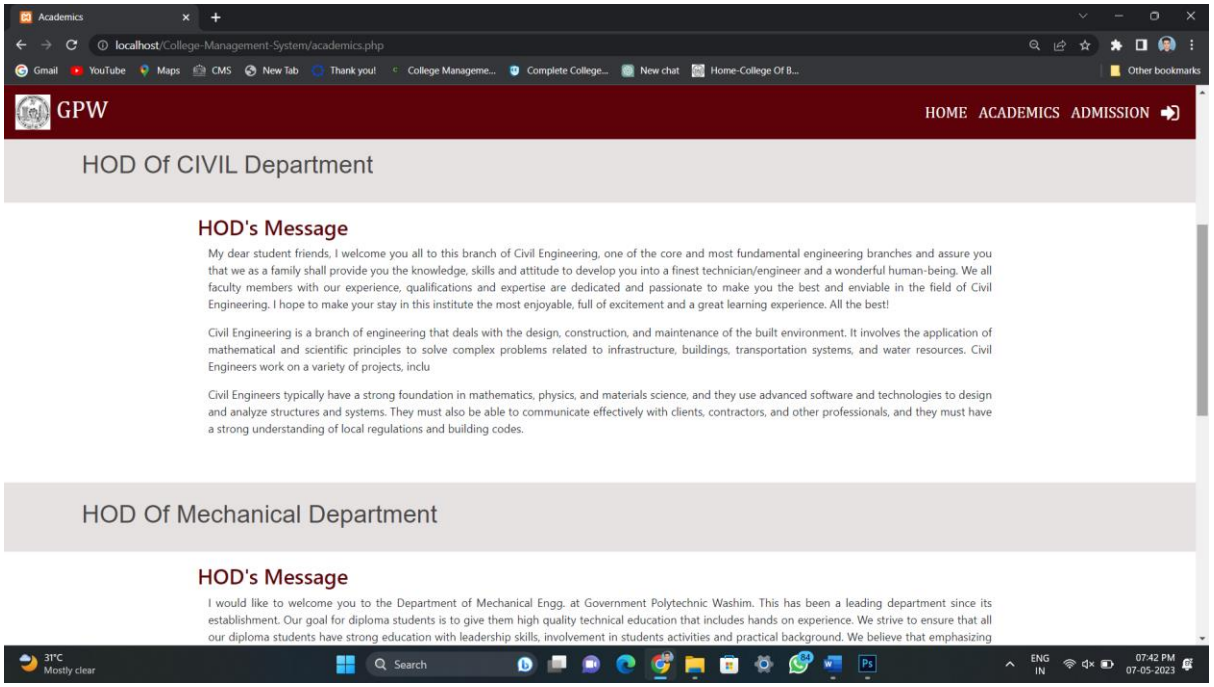
Quick links to frequently accessed pages such as student profiles, faculty profiles, academic records, course schedules, etc., should be displayed prominently on the home page.

Contact Information:

Contact information such as the college's address, phone number, email, etc., should be included on the home page so that users can quickly get in touch with the administration.

ACADEMICS


Academics
localhost/College-Management-System/academics.php
GPW
HOME ACADEMICS ADMISSION
HOD Of IT Department
HOD's Message
IT diploma engineers and scientists are now widely recognized as an essential source of tools and techniques for advancement in nearly all spheres of human endeavour. Department has well qualified and experience faculty to inspire the students to develop their technical skills. The department gives exposure to its students, to not only the regular diploma curriculum but also to the aspirations of todays corporate world, by inculcating a professional attitude in them. Our aim is not only to develop a noble diploma engineer but also responsible citizens who serve and lead the nation.
The Department of Information Technology is committed to excellence in Teaching, Research and provides the right echo system for nurturing the budding professional skills of students. The Department has state-of-the-art Laboratories and provides enhanced Learning Facilities for students, to engage in Continuous Learning and Research. The students are imparted with Industry Relevant skills, which help them to get placed in world-class Organisations and for further excellence throughout their Professional careers.
The aspiration of the Department is not just to impart Industry-relevant Technical skills, but to make the students conduct themselves with Human values. It aims to create tomorrow's leaders of the knowledge society, who can contribute to the well-being of the Nation. The Department is providing opportunities through various events, to nurture the Managerial and Soft skills of the students, to make them thorough professionals and well-groomed individuals.
HOD Of CIVIL Department
HOD's Message
My dear student friends, I welcome you all to this branch of Civil Engineering, one of the core and most fundamental engineering branches and assure you


Academics
localhost/College-Management-System/academics.php
GPW
HOME ACADEMICS ADMISSION
HOD Of CIVIL Department
HOD's Message
My dear student friends, I welcome you all to this branch of Civil Engineering, one of the core and most fundamental engineering branches and assure you that we as a family shall provide you the knowledge, skills and attitude to develop you into a finest technician/engineer and a wonderful human-being. We all faculty members with our experience, qualifications and expertise are dedicated and passionate to make you the best and enviable in the field of Civil Engineering. I hope to make your stay in this institute the most enjoyable, full of excitement and a great learning experience. All the best!
Civil Engineering is a branch of engineering that deals with the design, construction, and maintenance of the built environment. It involves the application of mathematical and scientific principles to solve complex problems related to infrastructure, buildings, transportation systems, and water resources. Civil Engineers work on a variety of projects, inclu
Civil Engineers typically have a strong foundation in mathematics, physics, and materials science, and they use advanced software and technologies to design and analyze structures and systems. They must also be able to communicate effectively with clients, contractors, and other professionals, and they must have a strong understanding of local regulations and building codes.
HOD Of Mechanical Department
HOD's Message
I would like to welcome you to the Department of Mechanical Engg. at Government Polytechnic Washim. This has been a leading department since its establishment. Our goal for diploma students is to give them high quality technical education that includes hands on experience. We strive to ensure that all our diploma students have strong education with leadership skills, involvement in students activities and practical background. We believe that emphasizing

ACADEMIC:

Course Management:

This feature allows the college administration to manage courses offered by the institution. It includes adding new courses, modifying course details, and deleting outdated courses.

Student Attendance:

This feature helps track student attendance for each course. Faculty members can record attendance for each student in their class, and the system can generate reports for students who are frequently absent.

Grading System:

This feature helps manage student grades for each course. Faculty members can enter grades for assignments, exams, and other assessments, and the system can calculate final grades based on the course's grading criteria.

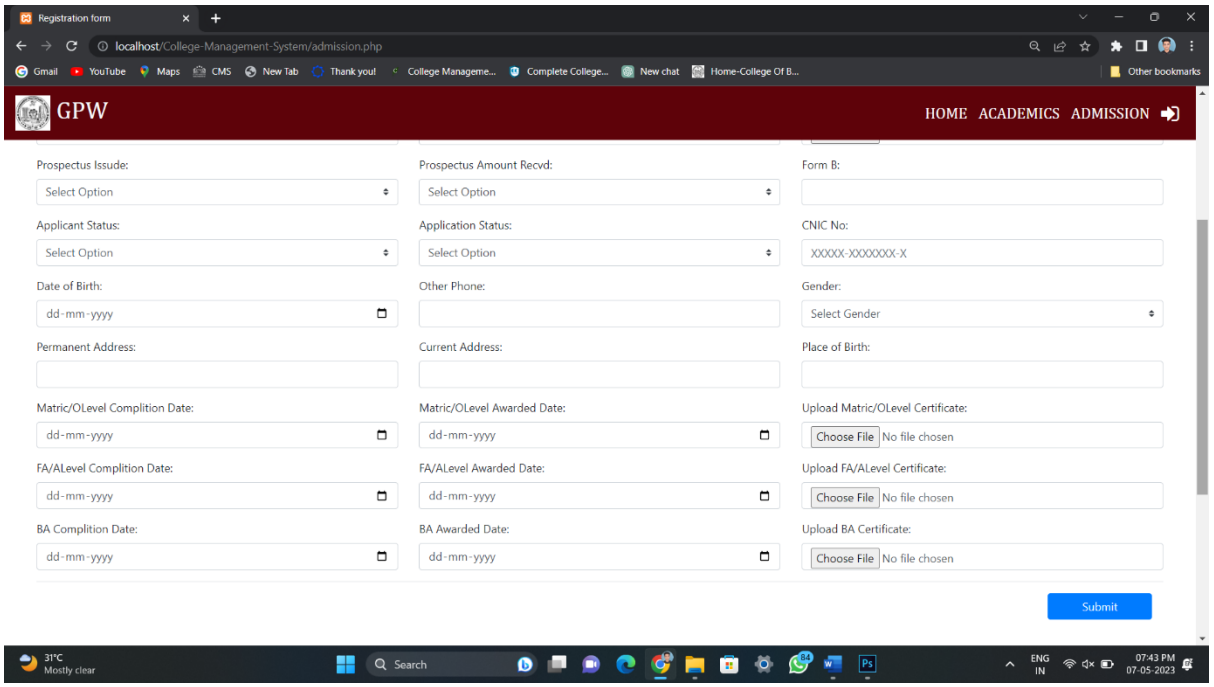
Class Scheduling:

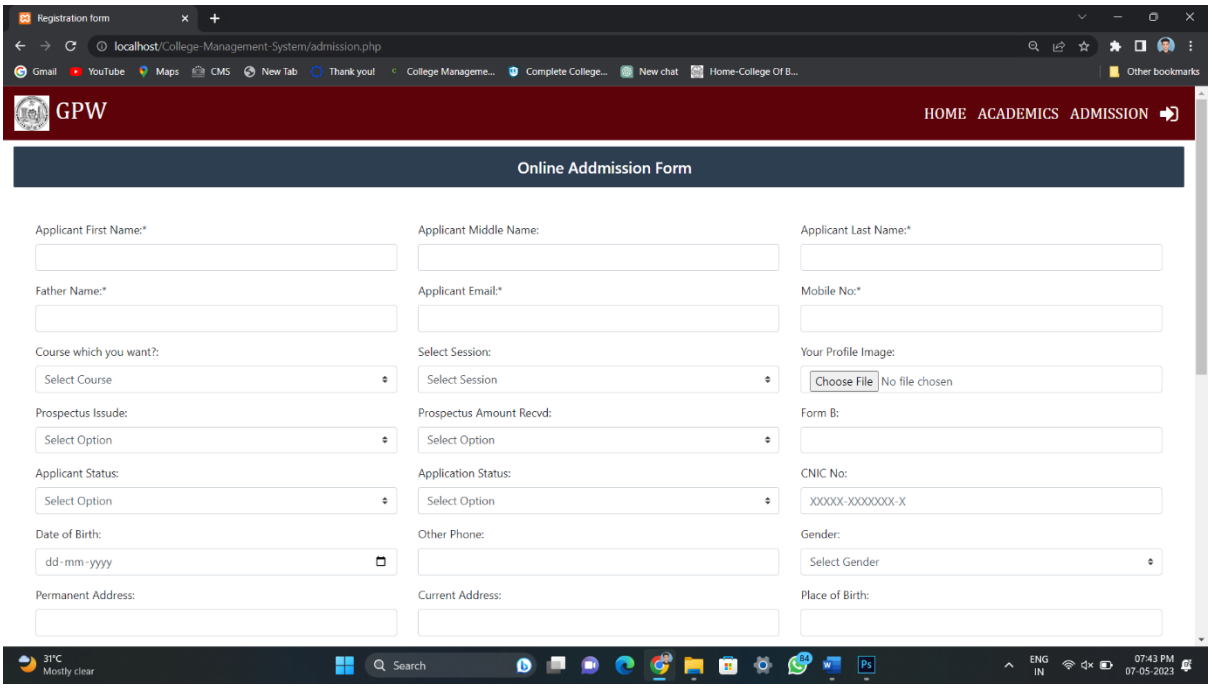
This feature helps schedule classes for each course. Faculty members can create schedules for each course, and students can view their class schedules in the system.

Faculty Information:

This feature allows the college administration to manage faculty information, including their personal details, contact information, qualifications, and teaching experience.

ADMISSION


Registration form
localhost/College-Management-System/admission.php
GPW
HOME ACADEMICS ADMISSION
Prospectus Issude:
Select Option
Prospectus Amount Recvd:
Select Option
Form B:
Applicant Status:
Select Option
Application Status:
Select Option
CNIC No:
XXXXX-XXXXXXX-X
Date of Birth:
dd-mm-yyyy
Other Phone:
Gender:
Select Gender
Permanent Address:
Current Address:
Place of Birth:
Matric/OLevel Complition Date:
dd-mm-yyyy
Matric/OLevel Awarded Date:
dd-mm-yyyy
Upload Matric/OLevel Certificate:
Choose File No file chosen
FA/ALevel Complition Date:
dd-mm-yyyy
FA/ALevel Awarded Date:
dd-mm-yyyy
Upload FA/ALevel Certificate:
Choose File No file chosen
BA Complition Date:
dd-mm-yyyy
BA Awarded Date:
dd-mm-yyyy
Upload BA Certificate:
Choose File No file chosen
Submit


Registration form
localhost/College-Management-System/admission.php
GPW
HOME ACADEMICS ADMISSION
Online Addmission Form
Applicant First Name:*
Applicant Middle Name:
Applicant Last Name:*
Father Name:*
Applicant Email:*
Mobile No:*
Course which you want?:
Select Course
Select Session:
Select Session
Your Profile Image:
Choose File No file chosen
Prospectus Issude:
Select Option
Prospectus Amount Recvd:
Select Option
Form B:
Applicant Status:
Select Option
Application Status:
Select Option
CNIC No:
XXXXX-XXXXXXX-X
Date of Birth:
dd-mm-yyyy
Other Phone:
Gender:
Select Gender
Permanent Address:
Current Address:
Place of Birth:

Admission:

Personal Information:

This section will include fields such as Name, Date of Birth, Gender, Nationality, Contact Details (email, phone number, address), etc.

Educational Background:

This section will ask for details on the applicant's educational background such as High School name, Board of Education, Year of Passing, Percentage or GPA obtained, etc. Additionally, applicants may also be asked to provide information on any relevant certifications or extra-curricular activities.

Program Details:

In this section, applicants can select the program they are applying for, such as the course, the duration, the degree, or diploma, etc. Applicants may also be required to provide additional information related to the program, such as their preferred stream, specialization, etc.

Payment Information:

Applicants may be required to pay a fee to complete their application. This section will include information on the fee, payment methods, and any necessary instructions.

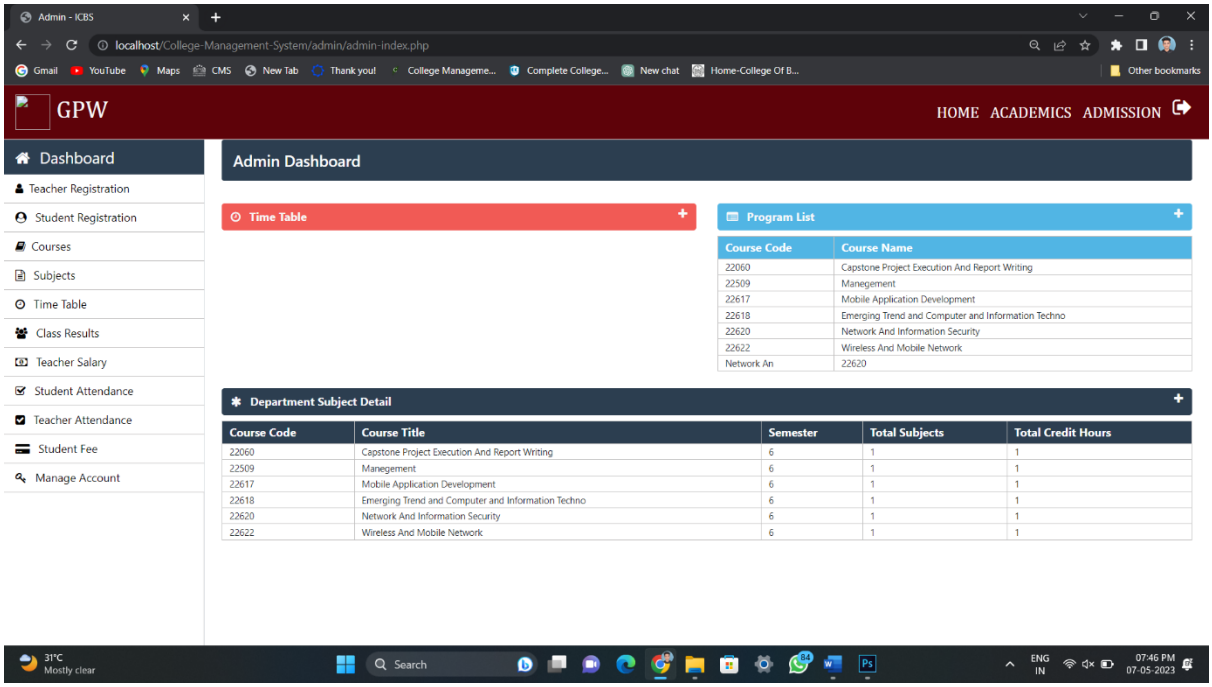
Supporting Documents:

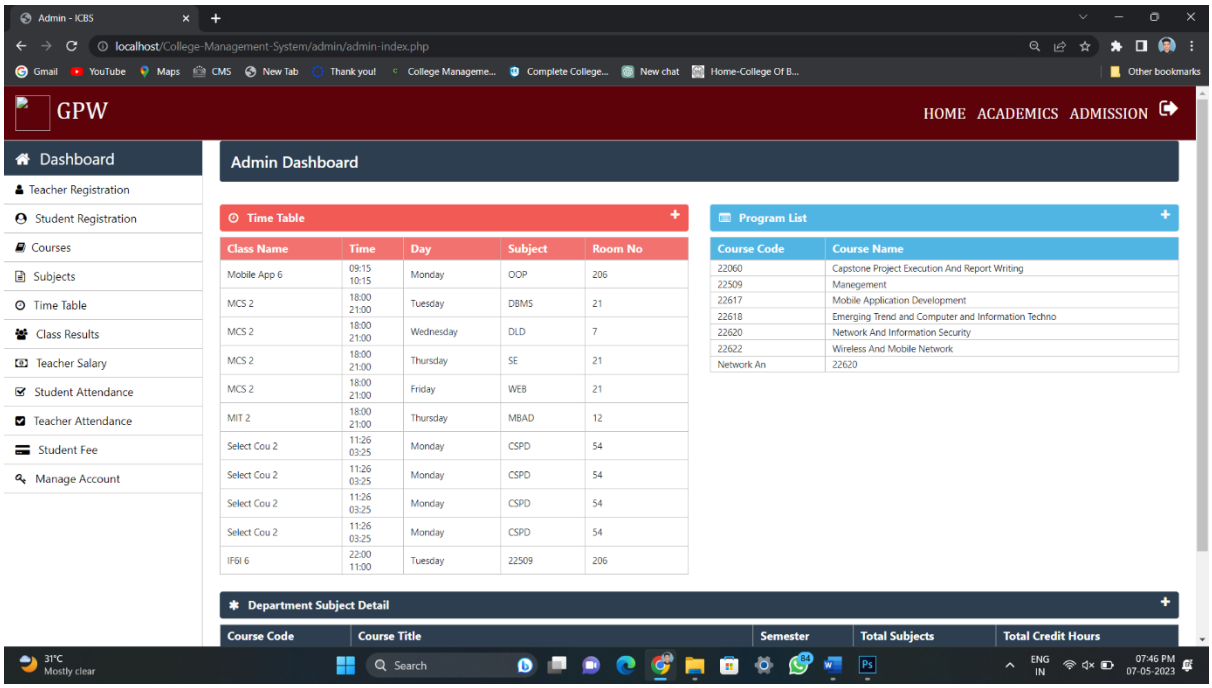
Applicants may be required to upload scanned copies of their documents, such as ID proof, mark sheets, certificates, etc.

CHAPTER 5

RESULT

DASHBOARD





Dashboard:

Student management:

This module would allow administrators to view student details, such as their contact information, academic performance, attendance records, and disciplinary history.

Faculty management:

This module would enable administrators to view faculty details, such as their contact information, teaching assignments, research activities, and performance evaluations.

Course management:

This module would allow administrators to view course details, such as course schedules, enrolment numbers, and course outcomes.

Financial management:

This module would enable administrators to view financial data, such as revenue and expenses, budget allocations, and fundraising efforts.

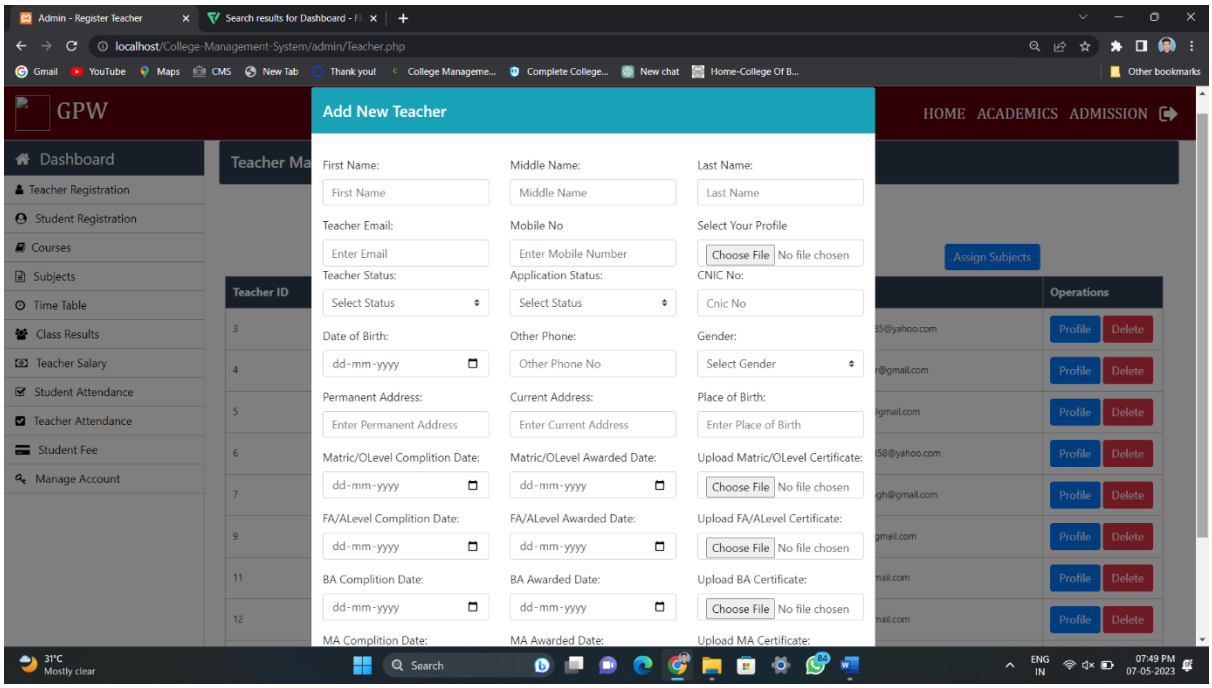
Facilities management:

This module would allow administrators to view facilities-related information, such as maintenance schedules, equipment inventory, and safety protocols.

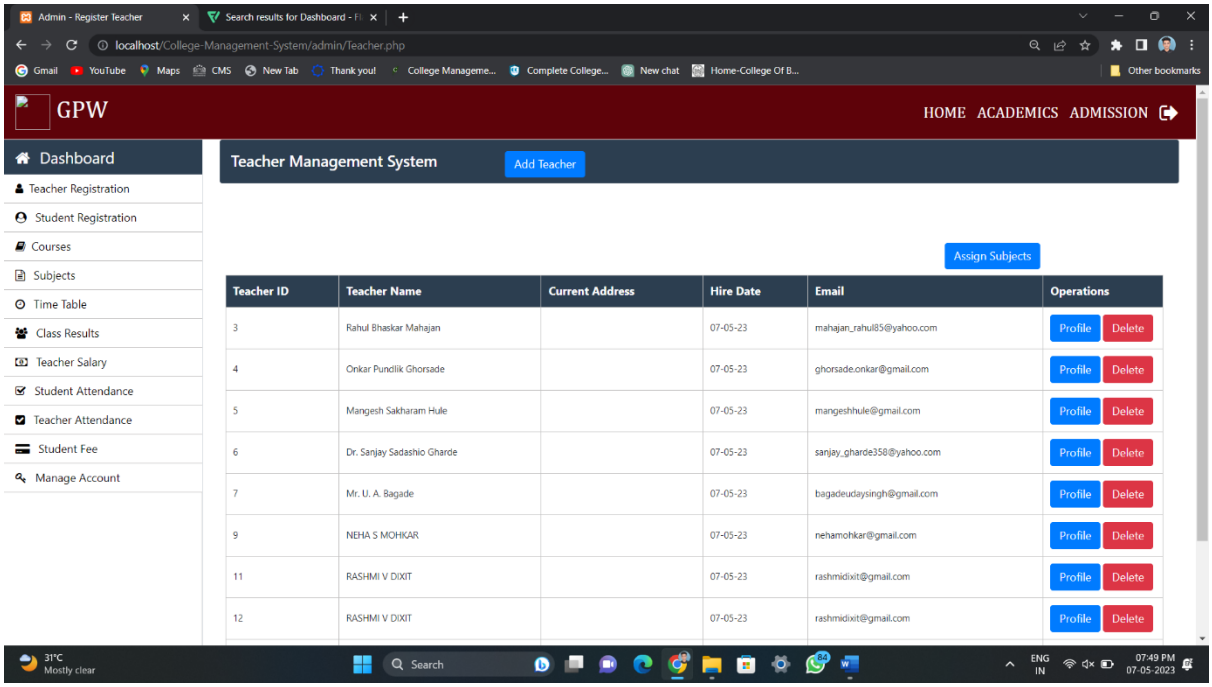
Analytics and reporting:

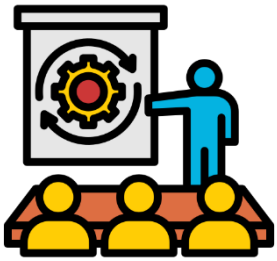
This module would provide administrators with data analytics tools to analyse key performance indicators and generate reports on various aspects of the college's operations.

ADD NEW TEACHER



TEACHER MANAGEMENT





Teacher Registration:

Create a teacher registration form:

The first step in teacher registration is to create a registration form that collects the necessary information from the teachers. This form should include fields for the teacher's personal information, contact details, academic qualifications, teaching experience, and other relevant details.

Submit the registration form:

Once the registration form is complete, the teacher can submit it through the college management system. This may involve creating an account on the system if they haven't already done so.

Verify the teacher's credentials:

The college management system may verify the teacher's academic qualifications and teaching experience before approving their registration. This may involve contacting the teacher's previous employers or educational institutions to verify their credentials.

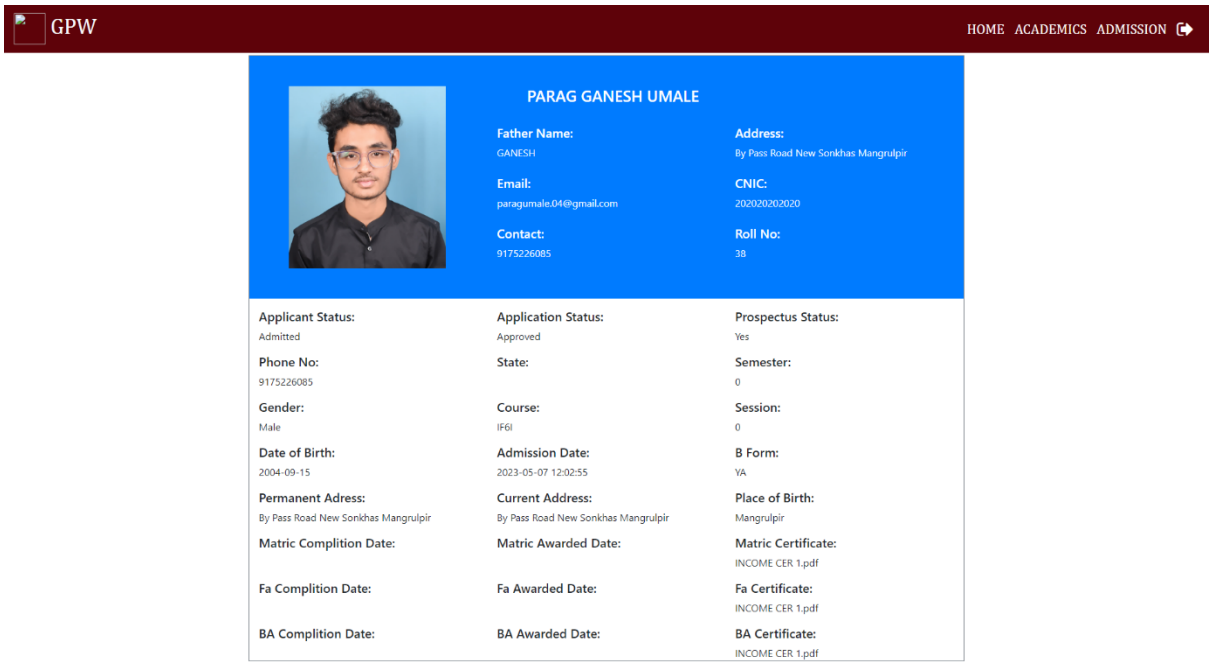
Approve the registration:

Once the teacher's credentials are verified, the college management system can approve their registration. This will give the teacher access to the system's features and allow them to manage their teaching assignments, course materials, and other relevant tasks.

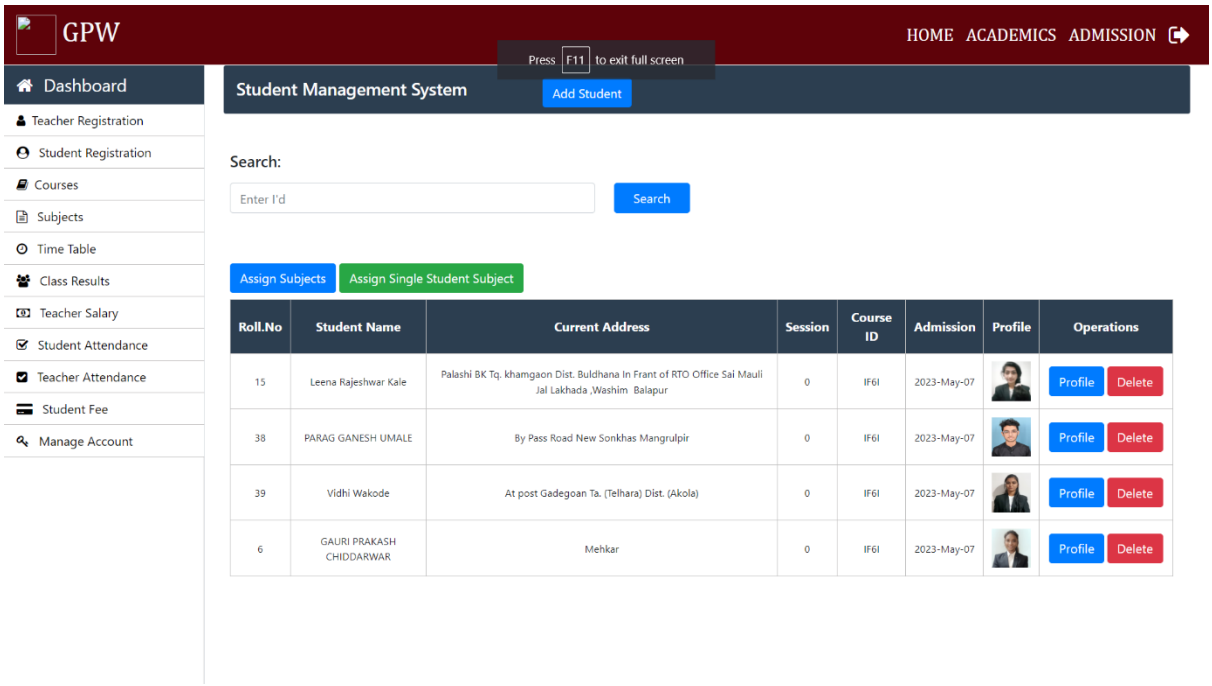
Provide training:

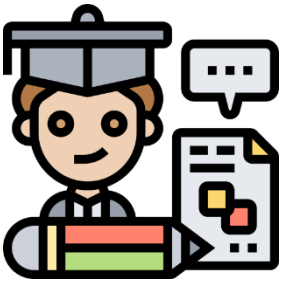
The college management system may provide training to the newly registered teachers to help them learn how to use the system effectively. This training may cover topics such as how to create

*STUDENT REGISTRACTION *



*STUDENT REGISTRACTION LIST *





Student Registration:

Create a student registration form:

The first step in student registration is to create a registration form that collects the necessary information from the students. This form should include fields for the student's personal information, contact details, academic qualifications, and other relevant details.

Submit the registration form:

Once the registration form is complete, the student can submit it through the college management system. This may involve creating an account on the system if they haven't already done so.

Verify the student's credentials:

The college management system may verify the student's academic qualifications and other credentials before approving their registration. This may involve contacting the student's previous schools or educational institutions to verify their credentials.

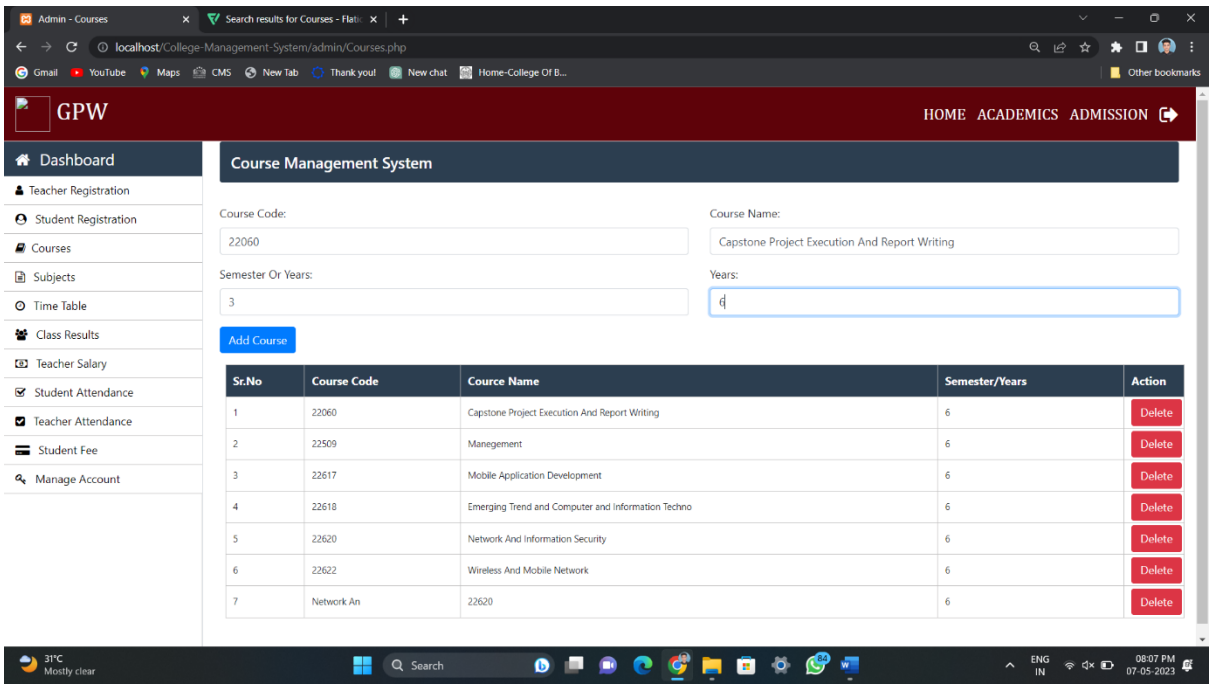
Approve the registration:

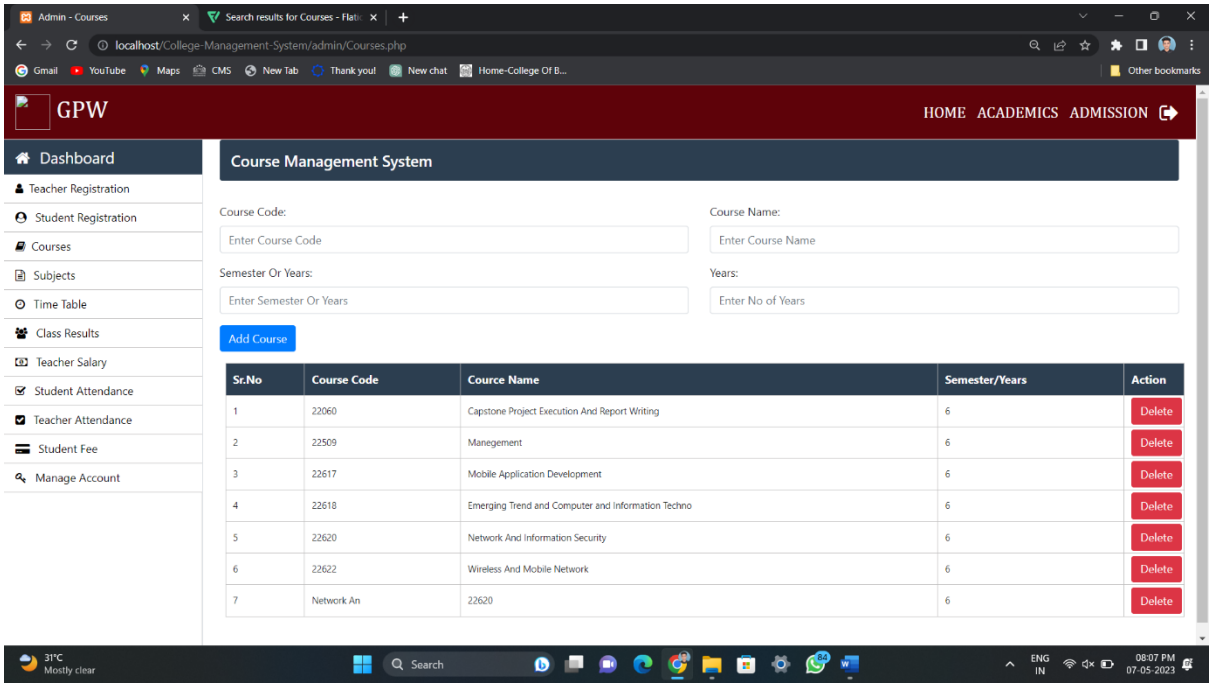
Once the student's credentials are verified, the college management system can approve their registration. This will give the student access to the system's features and allow them to manage their courses, assignments, and other relevant tasks.

Provide orientation:

The college management system may provide orientation to the newly registered students to help them learn how to use the system effectively. This orientation may cover topics such as how to register for courses, how to access course materials and grades, and how to communicate with teachers and classmates.

COURSE


Admin - Courses
Search results for Courses - Flat
localhost/College-Management-System/admin/Courses.php
GPW
HOME ACADEMICS ADMISSION
Dashboard
Teacher Registration
Student Registration
Courses
Subjects
Time Table
Class Results
Teacher Salary
Student Attendance
Teacher Attendance
Student Fee
Manage Account
Course Management System
Course Code:
22060
Course Name:
Capstone Project Execution And Report Writing
Semester Or Years:
3
Years:
6
Add Course
Sr.No | Course Code | Cource Name | Semester/Years | Action
1 | 22060 | Capstone Project Execution And Report Writing | 6 | Delete
2 | 22509 | Manegement | 6 | Delete
3 | 22617 | Mobile Application Development | 6 | Delete
4 | 22618 | Emerging Trend and Computer and Information Techno | 6 | Delete
5 | 22620 | Network And Information Security | 6 | Delete
6 | 22622 | Wireless And Mobile Network | 6 | Delete
7 | Network An | 22620 | 6 | Delete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Search results for Courses - Flat
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Dashboard
Teacher Registration
Student Registration
Courses
Subjects
Time Table
Class Results
Teacher Salary
Student Attendance
Teacher Attendance
Student Fee
Manage Account
Course Management System
Course Code:
Enter Course Code
Course Name:
Enter Course Name
Semester Or Years:
Enter Semester Or Years
Years:
Enter No of Years
Add Course
Sr.No | Course Code | Cource Name | Semester/Years | Action
1 | 22060 | Capstone Project Execution And Report Writing | 6 | Delete
2 | 22509 | Manegement | 6 | Delete
3 | 22617 | Mobile Application Development | 6 | Delete
4 | 22618 | Emerging Trend and Computer and Information Techno | 6 | Delete
5 | 22620 | Network And Information Security | 6 | Delete
6 | 22622 | Wireless And Mobile Network | 6 | Delete
7 | Network An | 22620 | 6 | Delete

Courses:

Course management:

This course would cover the basics of managing courses within the college management system, including creating and editing course details, managing enrolment, and tracking attendance and grades.

Student management:

This course would cover how to manage student records within the college management system, including creating and editing student profiles, tracking academic progress, and managing disciplinary records.

Faculty management:

This course would cover how to manage faculty records within the college management system, including creating and editing faculty profiles, tracking teaching assignments and research activities, and managing performance evaluations.

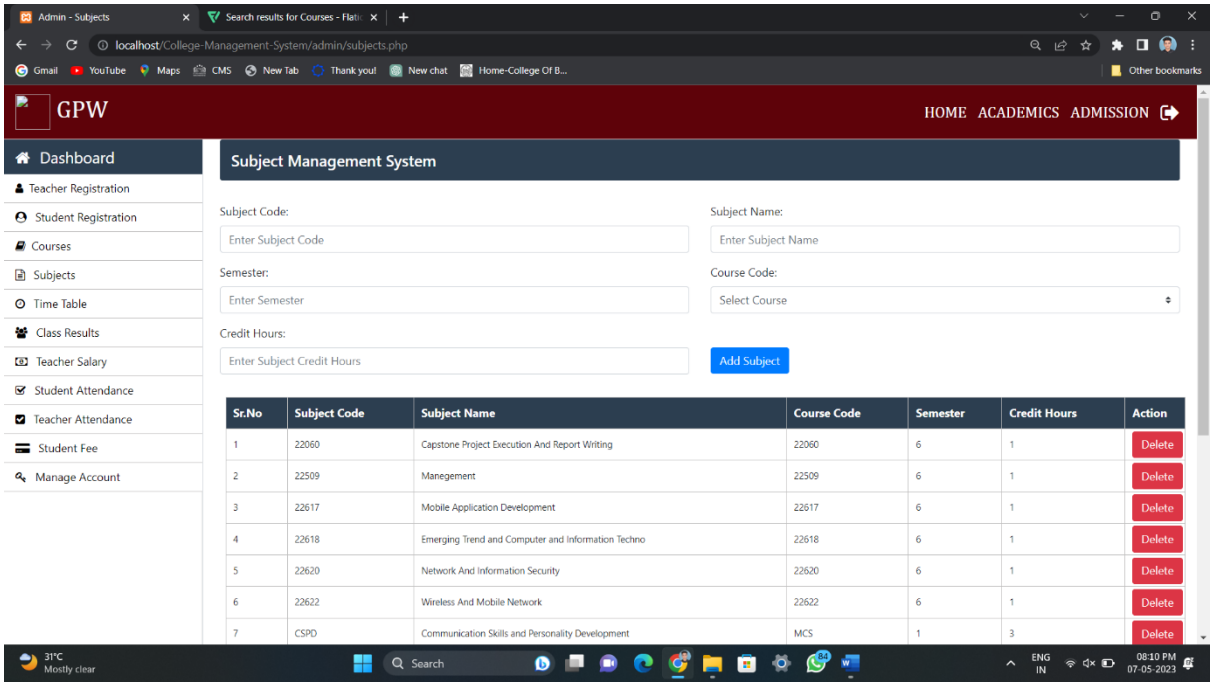
Financial management:

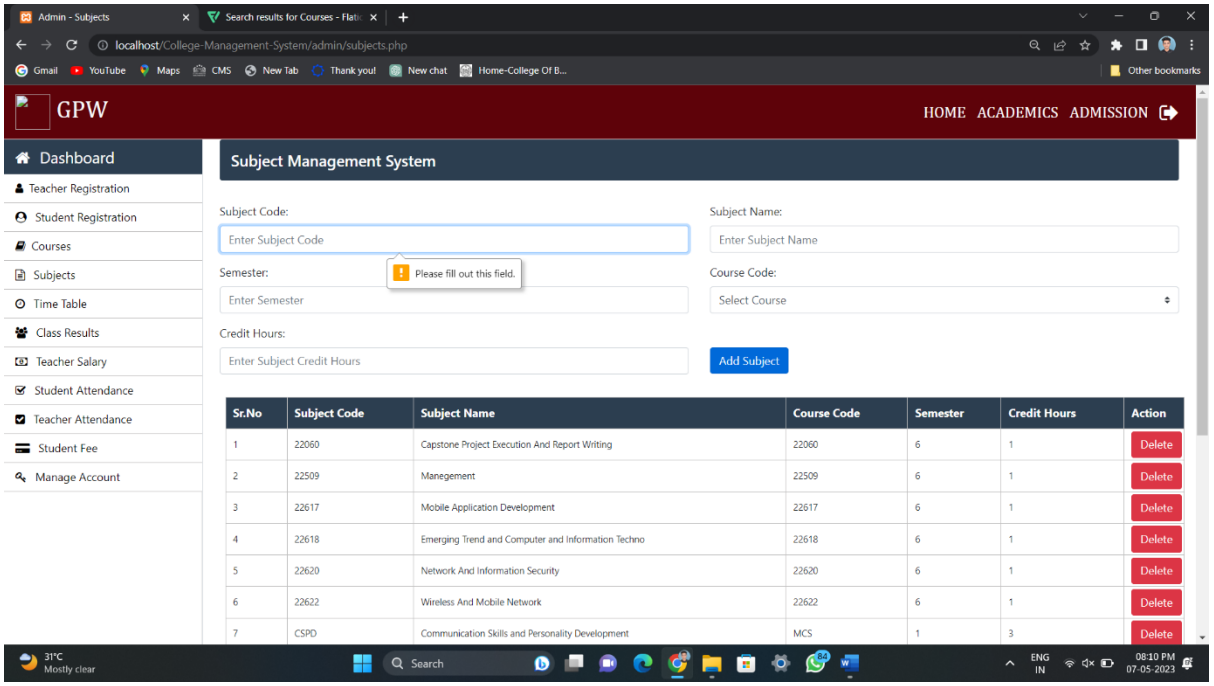
This course would cover how to manage financial data within the college management system, including tracking revenue and expenses, creating budgets, and managing fundraising activities.

Facilities management:

This course would cover how to manage facilities-related information within the college management system, including maintaining equipment inventory, scheduling maintenance activities, and ensuring safety and security protocols are in place.

SUBJECT


Admin - Subjects
Search results for Courses - Flat
localhost/College-Management-System/admin/subjects.php
GPW
HOME ACADEMICS ADMISSION
Dashboard
Teacher Registration
Student Registration
Courses
Subjects
Time Table
Class Results
Teacher Salary
Student Attendance
Teacher Attendance
Student Fee
Manage Account
Subject Management System
Subject Code:
Enter Subject Code
Subject Name:
Enter Subject Name
Semester:
Enter Semester
Course Code:
Select Course
Credit Hours:
Enter Subject Credit Hours
Add Subject
Sr.No | Subject Code | Subject Name | Course Code | Semester | Credit Hours | Action
1 | 22060 | Capstone Project Execution And Report Writing | 22060 | 6 | 1 | Delete
2 | 22509 | Manegement | 22509 | 6 | 1 | Delete
3 | 22617 | Mobile Application Development | 22617 | 6 | 1 | Delete
4 | 22618 | Emerging Trend and Computer and Information Techno | 22618 | 6 | 1 | Delete
5 | 22620 | Network And Information Security | 22620 | 6 | 1 | Delete
6 | 22622 | Wireless And Mobile Network | 22622 | 6 | 1 | Delete
7 | CSPD | Communication Skills and Personality Development | MCS | 1 | 3 | Delete


Admin - Subjects
Search results for Courses - Flat
localhost/College-Management-System/admin/subjects.php
GPW
HOME ACADEMICS ADMISSION
Dashboard
Teacher Registration
Student Registration
Courses
Subjects
Time Table
Class Results
Teacher Salary
Student Attendance
Teacher Attendance
Student Fee
Manage Account
Subject Management System
Subject Code:
Enter Subject Code
Please fill out this field.
Subject Name:
Enter Subject Name
Semester:
Enter Semester
Course Code:
Select Course
Credit Hours:
Enter Subject Credit Hours
Add Subject
Sr.No | Subject Code | Subject Name | Course Code | Semester | Credit Hours | Action
1 | 22060 | Capstone Project Execution And Report Writing | 22060 | 6 | 1 | Delete
2 | 22509 | Manegement | 22509 | 6 | 1 | Delete
3 | 22617 | Mobile Application Development | 22617 | 6 | 1 | Delete
4 | 22618 | Emerging Trend and Computer and Information Techno | 22618 | 6 | 1 | Delete
5 | 22620 | Network And Information Security | 22620 | 6 | 1 | Delete
6 | 22622 | Wireless And Mobile Network | 22622 | 6 | 1 | Delete
7 | CSPD | Communication Skills and Personality Development | MCS | 1 | 3 | Delete

Subjects:

Student information management:

This subject would cover how to manage student information within the college management system, including admission, registration, attendance, and academic performance tracking.

Faculty information management:

This subject would cover how to manage faculty information within the college management system, including hiring, onboarding, teaching assignments, and research activities.

Course management:

This subject would cover how to manage course information within the college management system, including course creation, scheduling, enrolment, and grading.

Finance management:

This subject would cover how to manage financial information within the college management system, including budgeting, billing, and fundraising.

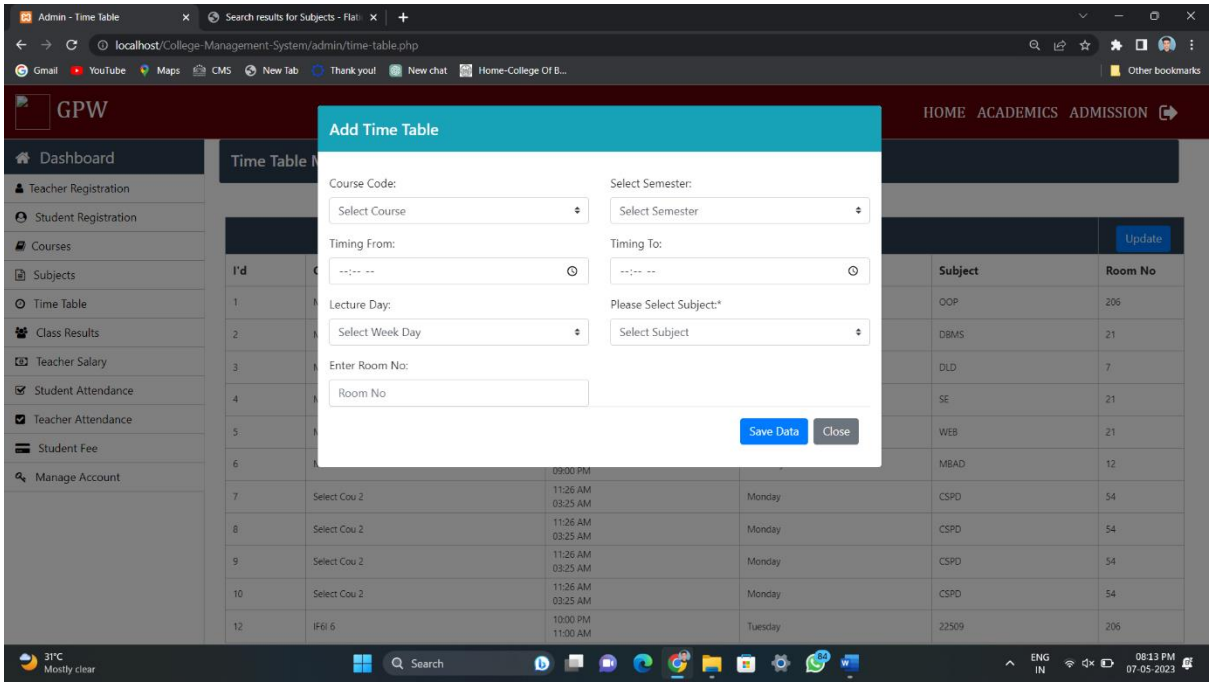
Library management:

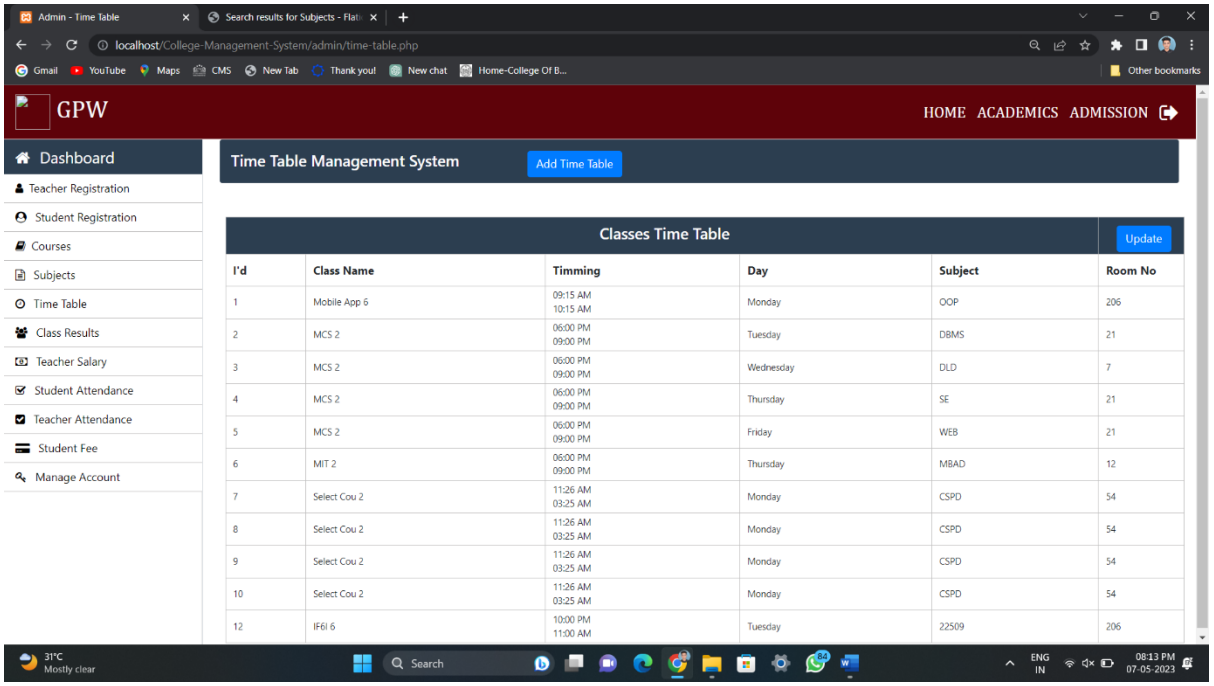
This subject would cover how to manage library information within the college management system, including cataloguing, circulation, and managing online resources.

Facilities management:

This subject would cover how to manage facilities-related information within the college management system, including maintenance scheduling, room reservations, and campus security.

TIME TABLE





I'd	Class Name	Timming	Day	Subject	Room No
1	Mobile App 6	09:15 AM 10:15 AM	Monday	OOP	206
2	MCS 2	06:00 PM 09:00 PM	Tuesday	DBMS	21
3	MCS 2	06:00 PM 09:00 PM	Wednesday	DLD	7
4	MCS 2	06:00 PM 09:00 PM	Thursday	SE	21
5	MCS 2	06:00 PM 09:00 PM	Friday	WEB	21
6	MIT 2	06:00 PM 09:00 PM	Thursday	MBAD	12
7	Select Cou 2	11:26 AM 03:25 AM	Monday	CSPD	54
8	Select Cou 2	11:26 AM 03:25 AM	Monday	CSPD	54
9	Select Cou 2	11:26 AM 03:25 AM	Monday	CSPD	54
10	Select Cou 2	11:26 AM 03:25 AM	Monday	CSPD	54
12	IF6I 6	10:00 PM 11:00 AM	Tuesday	22509	206

Time Table:

Course scheduling:

The time table module should allow administrators to schedule classes for each course based on available resources, faculty availability, and student preferences.

Faculty scheduling:

The module should also allow administrators to schedule teaching assignments for each faculty member based on their expertise and availability.

Room scheduling:

The module should include a feature for reserving classrooms, labs, and other facilities for each class based on their size and equipment needs.

Time slot management:

The module should allow administrators to define the length of each time slot, and to manage the number of time slots available for each course.

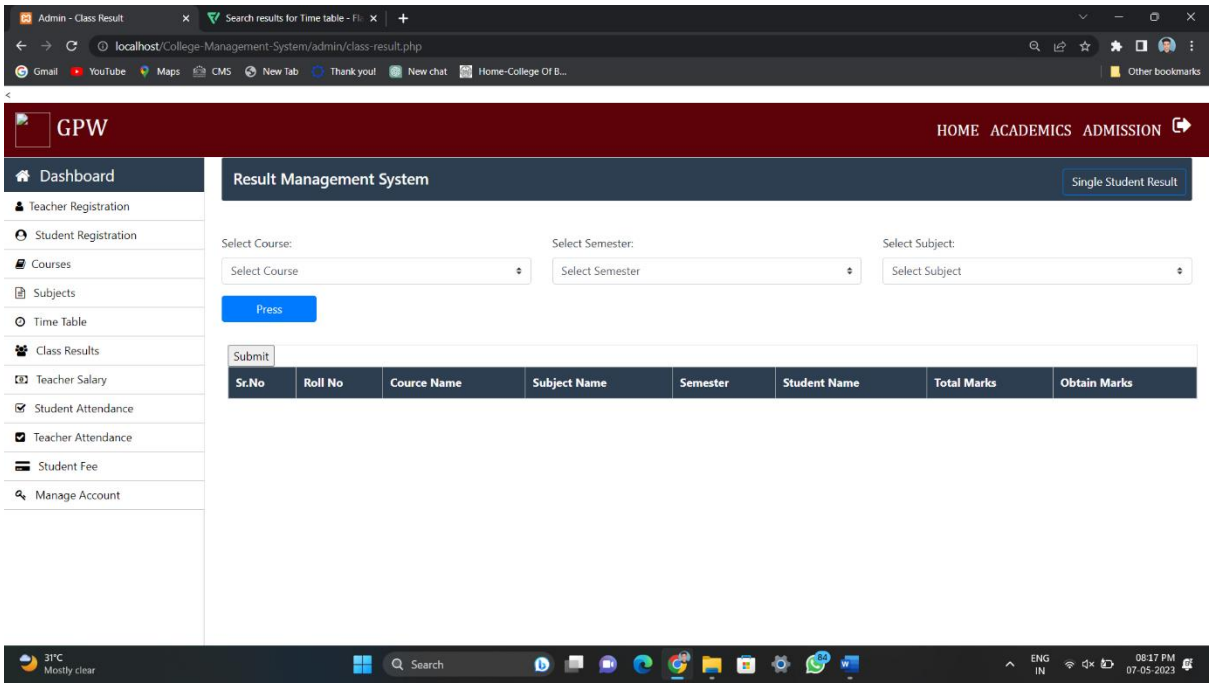
Conflict resolution:

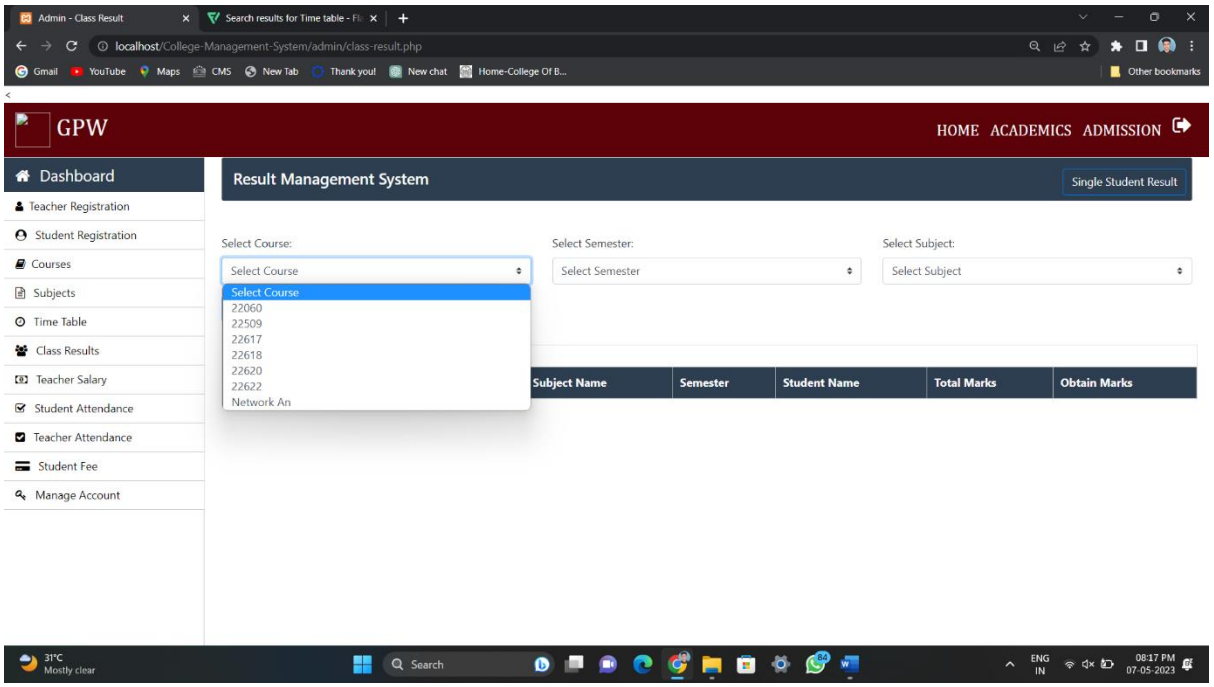
The module should include a conflict resolution feature to ensure that no two courses are scheduled in the same room or time slot, and to avoid scheduling conflicts for faculty and students.

Automated scheduling:

The module may also include an automated scheduling feature that generates a time table based on predefined rules and preferences.

CLASS RESULT





Class Results:

Grading system:

The module should allow administrators and faculty members to define and configure the grading system used by the college, including the number of grading scales, grade points, and grading methods.

Grade entry:

The module should allow faculty members to enter grades for each student, based on the assignments, exams, and other assessments.

Grade calculation:

The module should calculate the overall grade for each student based on the grading system used, and take into account any weights or scaling applied to individual assessments.

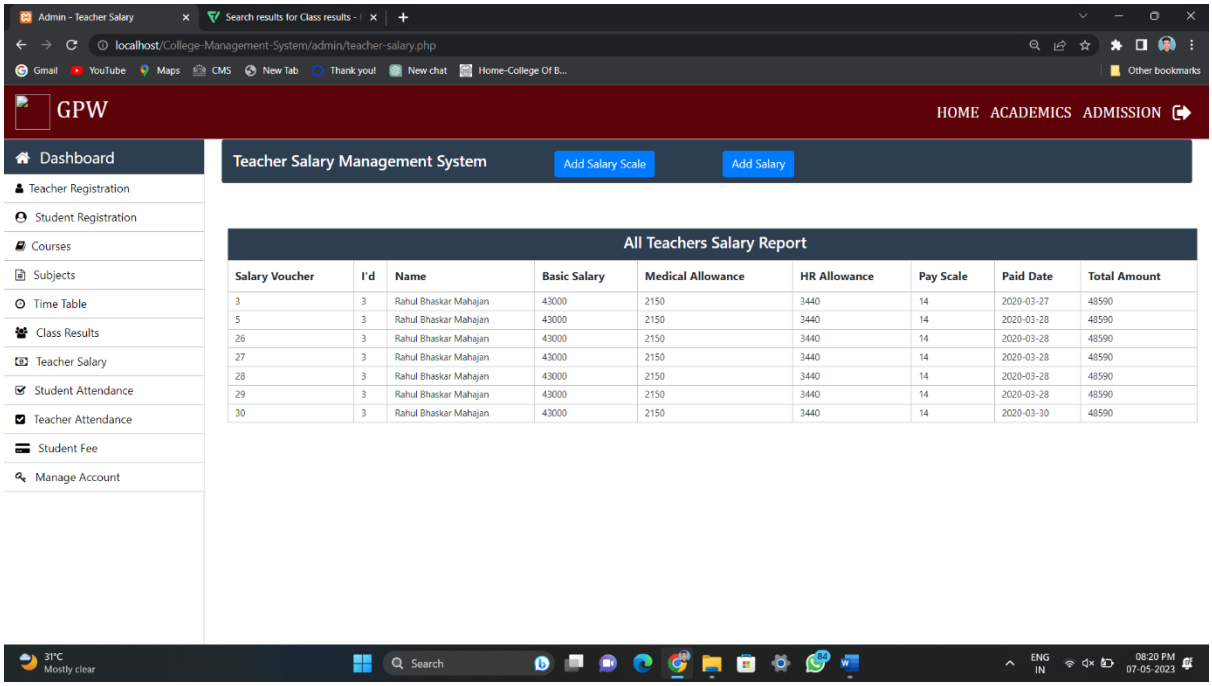
Grade reports:

The module should allow administrators and faculty members to generate various reports on student performance, such as class-wise reports, subject-wise reports, and student-wise reports.

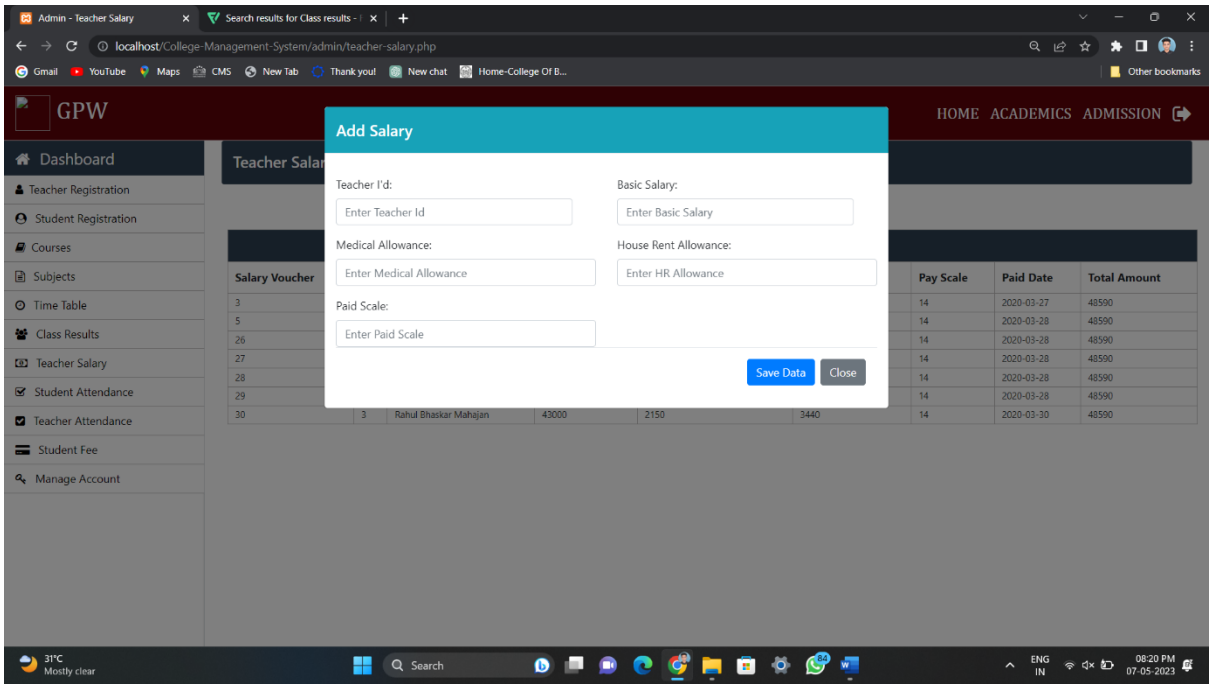
Result publishing:

The module should allow administrators to publish the results to the students, and to make them available for parents or guardians, if required.

TEACHER SALARY



Salary Voucher	I'd	Name	Basic Salary	Medical Allowance	HR Allowance	Pay Scale	Paid Date	Total Amount
3	3	Rahul Bhaskar Mahajan	43000	2150	3440	14	2020-03-27	48590
5	3	Rahul Bhaskar Mahajan	43000	2150	3440	14	2020-03-28	48590
26	3	Rahul Bhaskar Mahajan	43000	2150	3440	14	2020-03-28	48590
27	3	Rahul Bhaskar Mahajan	43000	2150	3440	14	2020-03-28	48590
28	3	Rahul Bhaskar Mahajan	43000	2150	3440	14	2020-03-28	48590
29	3	Rahul Bhaskar Mahajan	43000	2150	3440	14	2020-03-28	48590
30	3	Rahul Bhaskar Mahajan	43000	2150	3440	14	2020-03-30	48590



Teacher Salary:

Salary configuration:

The module should allow administrators to define and configure the salary structure for faculty members, including base salary, allowances, and bonuses.

Salary calculation:

The module should calculate the total salary for each faculty member based on their grade, experience, and performance.

Deductions and taxes:

The module should deduct taxes, insurance premiums, and other deductions from the faculty member's salary, as required by law.

Benefits management:

The module should allow administrators to manage benefits for faculty members, such as health insurance, retirement plans, and paid time off.

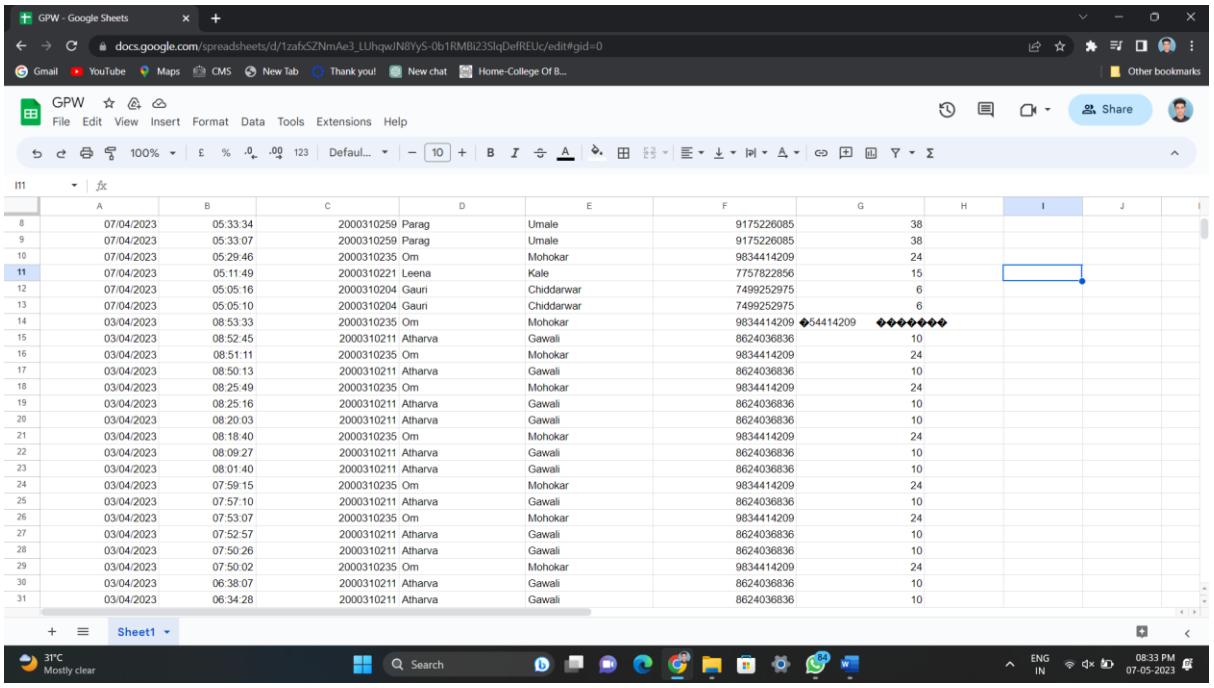
Salary reports:

The module should allow administrators to generate various reports on salary and benefits, such as payroll reports, tax reports, and benefit reports.

Automated payments:

The module should allow administrators to automatically process payments to faculty members, based on their salary and benefits.

STUDENT ATTENDANCE



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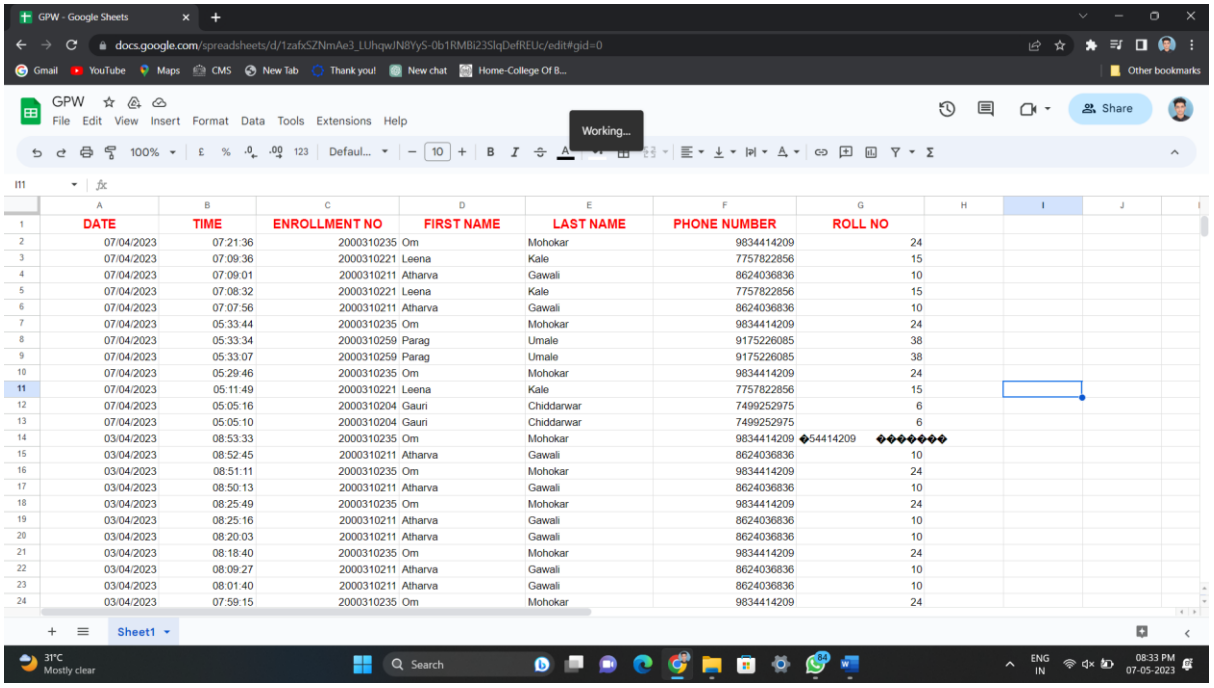

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20	03/04/2023	08:20:03	2000310211	Atharva	Gawali	8624036836	10
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22	03/04/2023	08:09:27	2000310211	Atharva	Gawali	8624036836	10
23	03/04/2023	08:01:40	2000310211	Atharva	Gawali	8624036836	10
24	03/04/2023	07:59:15	2000310235	Om	Mohokar	9834414209	24

Student Attendance (RFID):

RFID-enabled ID cards:

Each student would be provided with an RFID-enabled ID card that they would need to scan to record their attendance in each class.

RFID reader:

Each classroom would be equipped with an RFID reader, which would be used to read the ID cards of the students as they enter the classroom.

Real-time attendance:

The RFID student attendance module should provide real-time attendance updates to the faculty member, who would be able to view the attendance of all students in the class.

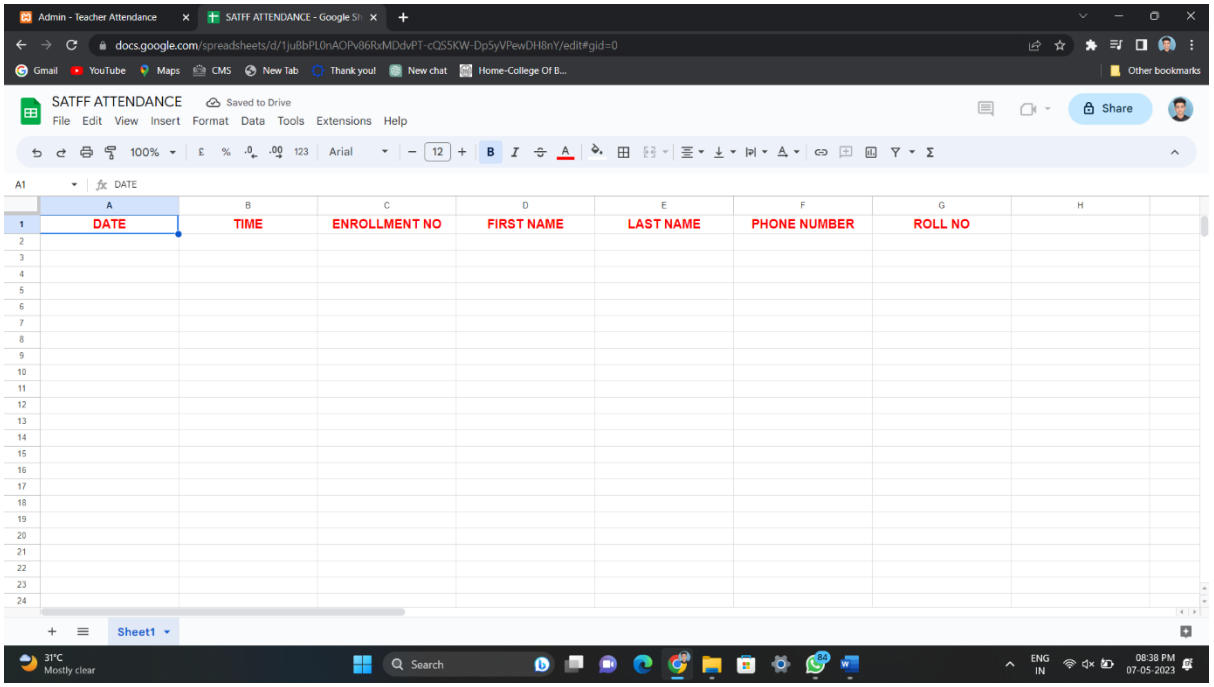
Automated attendance reports:

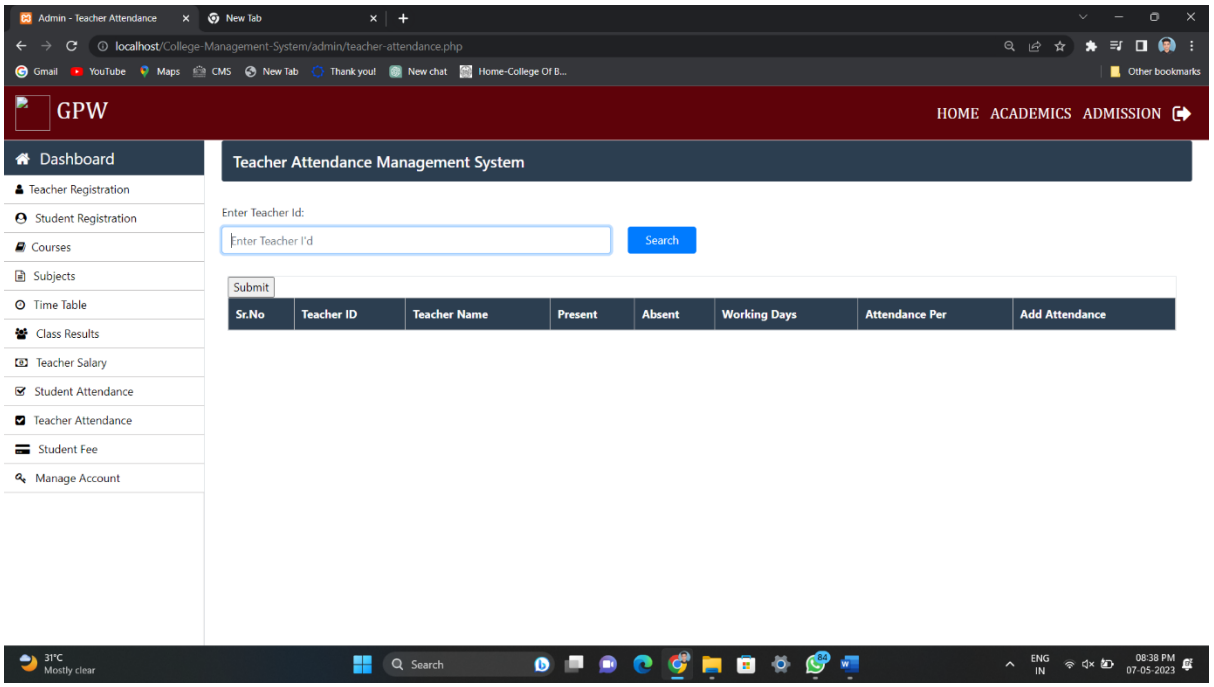
The module should automatically generate attendance reports for each class, subject, and student, which could be used by the faculty members and the college administration to track student attendance.

Integration with the college management system:

The RFID student attendance module should be integrated with the college management system, so that attendance data could be used to calculate grades, evaluate student performance, and generate reports.

TEACHER ATTENDANCE





Teacher Attendance:

Attendance marking:

The module should allow faculty members to mark their attendance, either manually or through an automated system.

Real-time attendance:

The teacher attendance module should provide real-time attendance updates to the college administration, who would be able to view the attendance of all faculty members.

Automated attendance reports:

The module should automatically generate attendance reports for each faculty member, department, and subject, which could be used by the college administration to track faculty attendance.

Integration with the college management system:

The teacher attendance module should be integrated with the college management system, so that attendance data could be used to calculate salary, evaluate faculty performance, and generate reports.

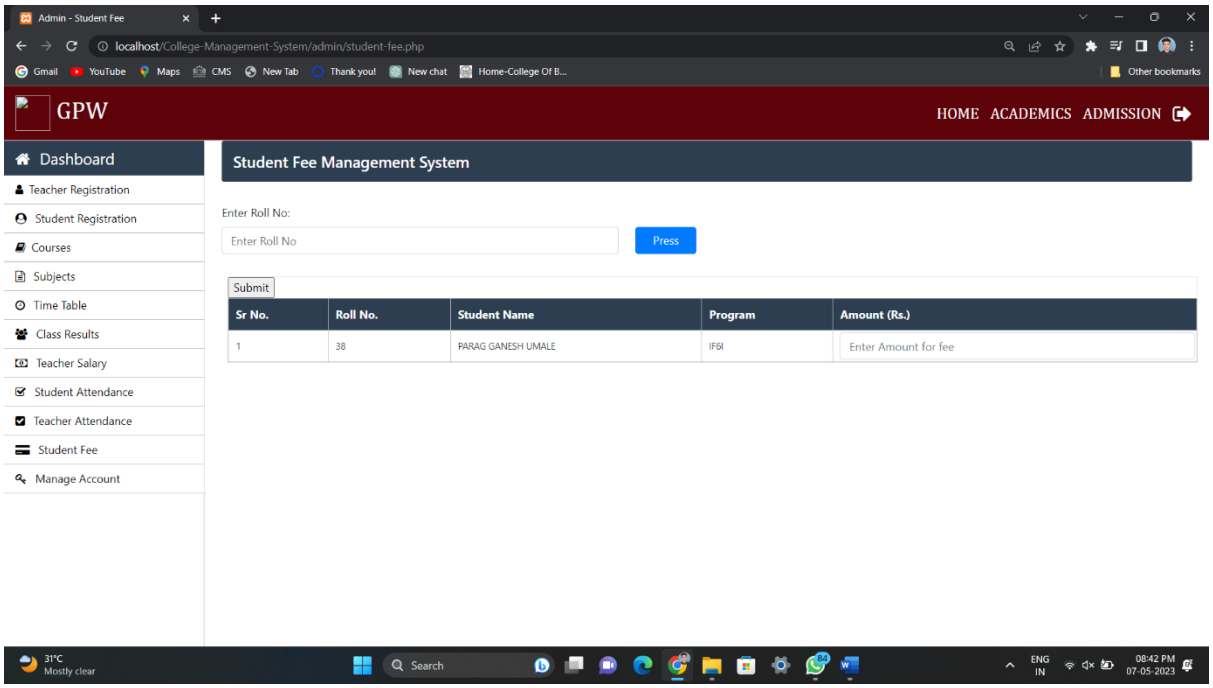
Leave management:

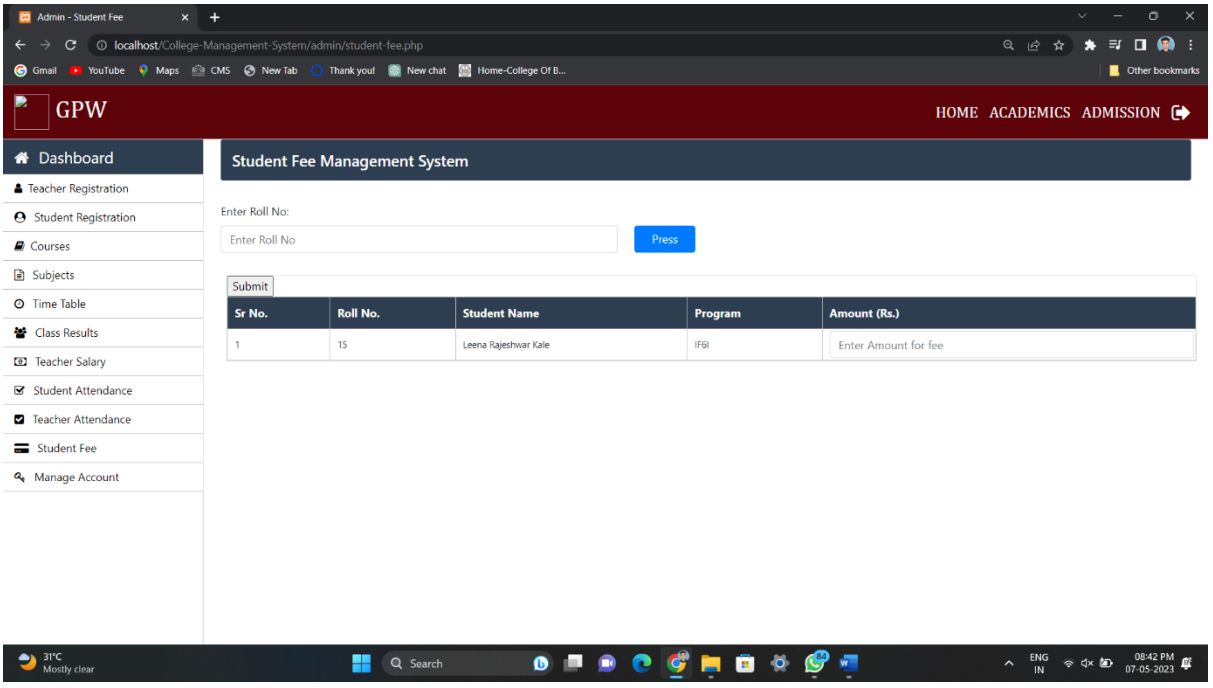
The module should allow faculty members to apply for leaves and manage their leave balances, and for the college administration to approve or reject leave requests.

Security and privacy:

The teacher attendance module should ensure that the privacy and security of faculty data is protected, and that attendance data is accessible only to authorized users.

STUDENT FEES





Student Fee:

Fee configuration:

The module should allow administrators to define and configure the fee structure for students, including tuition fees, exam fees, and other fees.

Fee payment management:

The module should allow students to make fee payments through multiple payment modes, such as online payment, credit/debit card, net banking, and offline payment modes such as cash or check.

Fee payment tracking:

The module should track and record all fee payments made by each student and update the student's fee balance in real-time.

Automated fee payment reminders:

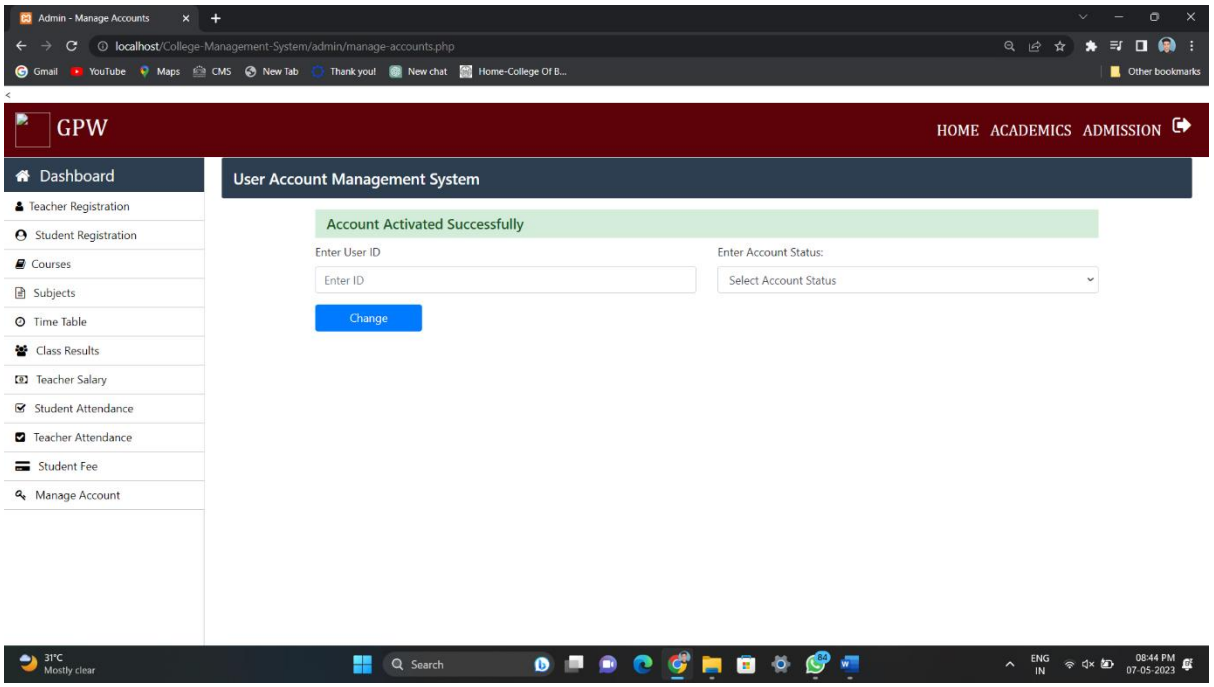
The module should automatically generate fee payment reminders for students who have pending fee payments, and send them to students through email or SMS.

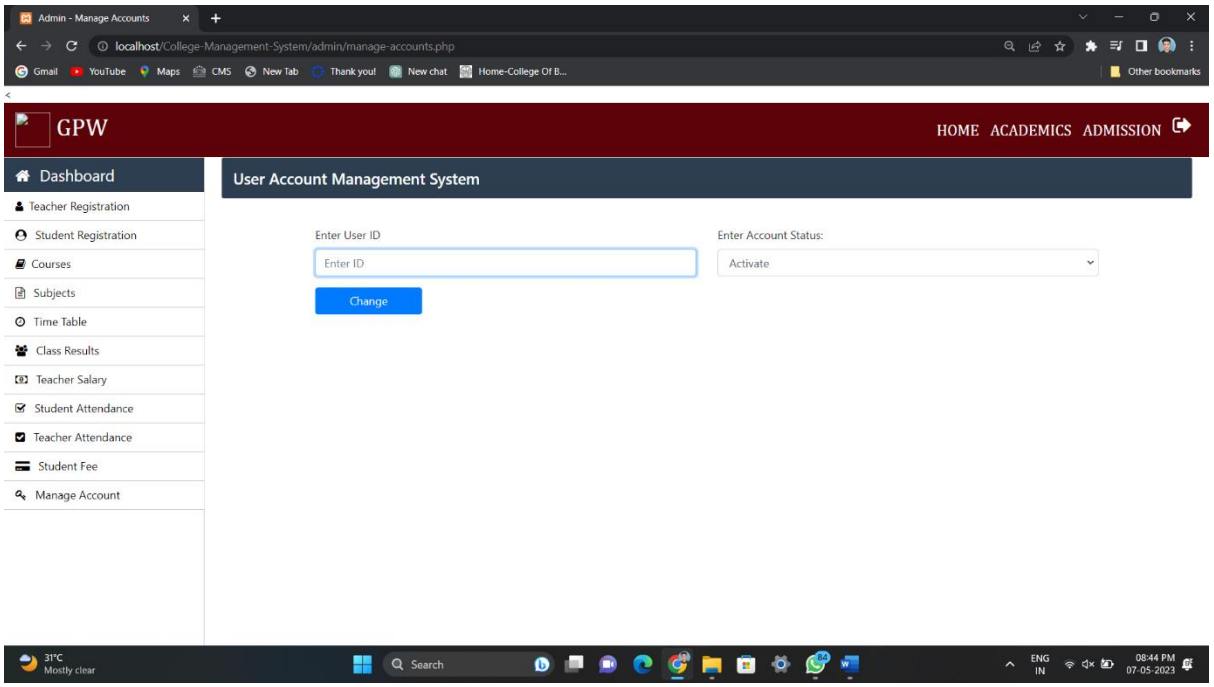
Fee reports:

The module should allow administrators to generate various reports related to fee payments, such as fee collection reports, fee defaulter reports, and fee reconciliation reports.

Integration with the college management system: The student fee module should be integrated with the college management system, so that fee data could be used to calculate the student's academic eligibility, issue certificates, and generate reports.

MANAGE ACCOUNT





Manage Account:

User account management:

The module should allow users to create, modify, and delete their accounts, and reset their passwords in case they forget them.

Personal information management:

The module should allow users to update their personal information such as name, contact details, address, and emergency contact information.

Privacy settings management:

The module should allow users to manage their privacy settings, such as who can view their profile information, and who can send them messages.

Role-based access control:

The module should provide different levels of access to different users based on their roles, such as student, faculty, administrator, and parent.

User activity tracking: The

module should track and record all user activities, such as login attempts, password changes, and profile updates, for auditing and security purposes.

Integration with the college management system:

The manage account module should be integrated with the college management system, so that user account data could be used to track attendance, manage fee payments, and generate reports.

Meet Our Team:

Parag Umale:

Project Manager. Parag is an experienced project manager who has worked on several software development projects in the past. He is responsible for overseeing the development of the college management system and ensuring that it meets all the requirements of the college.

Leena Kale:

Lead Developer. Leena is an experienced software developer with expertise in web development. She is responsible for developing the front-end and back-end of the college management system and ensuring that it is user-friendly and efficient.

Vidhi Wakode:

Database Administrator. Vidhi is responsible for managing the database and ensuring that all data is stored securely and efficiently. He is also responsible for designing the database schema and optimizing the database performance.

Gauri Chiddarwar:

Quality Assurance Analyst. Gauri is responsible for testing the college management system to ensure that it is free of bugs and errors. She also ensures that the system meets all the functional and non-functional requirements.

Meet Our Guide:

Mr.M.S.Hule: Our guide, Professor Mr.M.S.Hule, is a renowned academician with years of experience in higher education management. He is an expert in college management systems and has provided valuable insights throughout the development process. He has also helped us ensure that the system meets all the requirements of the college and is aligned with the best practices in the industry.

Here Is The Highlight Of Our Team Member's

Chapter 6

Conclusion

In this project report Introduction, Literature Survey, Background, Motivation has been discuses. Feasibility study has been check and it is found that project is Technically and Economically Feasible. Project scheduled is prepared system design and database design was completed.

In the next semester this design of student smart card will be implemented with the help of suitable languages and platform

Reference

Access on 24/12/22

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