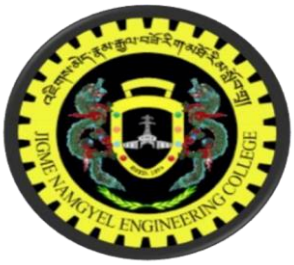
Royal University of Bhutan

Jigme Namgyel Engineering College



A

MINI PROJECT REPORT

ON

STUDENT REGISTRATION SYSTEM

OF

INFORMATION SYSTEM DEVELOPMENT AND MANAGEMENT

SUBMITTED BY

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FIRST YEAR DIPLOMA IN COMPUTER SYSTEM AND NETWORK

GUIDED BY

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ACADEMIC YEAR 2024

SPRING SEMESTER

Contents

Abstract 4
Introduction 4
System descriptions 4
Importance of the topic 5
Problem statement 5
Proposed System (Solution) 5
Aim 5
Objectives 5
Project Analysis 6
1. Scope: 6
2. Complexity: 6
3. Specific Challenges 6
Software Process Method 7
Waterfall Method 7
The several reasons for not choosing other development methodologies 8
Feasibility Assessment 9
Schedules, Time Line, and Resource Analysis 9
PERT CALCULATION: 9
Gantt chart: 11
Network Diagram 11
Economic Analysis 12
Technical Analysis 13
Operational Analysis 14
Political Analysis 14
Legal and contractual Analysis 14
Management Issues 15
Team Configuration and Management 15
Communication Plan 15
Project Standards and Procedures 16
Requirement Determination 16
Summary of interview 16
Requirement Gathering 17
Functional Requirements 17

Non-functional Requirements 18
Process Modeling 19
Context Diagram 19
DFD diagram level 0 20
Level 1 DFD for Process 1: Maintain Student details 21
Level 1 DFD for process 2 Generate Academic Information 21
Logical modeling 22
Decision Tree for Process 1: Maintain Student details 22
Decision Tree for process 2 Generate Academic information 23
Structured English for Process 5: Generate Fee Payment 23
Use Case Diagram 24
Entity-Related Diagram (ERD) 25
Data dictionary: 25
Student: 25
registration form: 26
Fee payment: 26
Finance: 26
Exam cell / Dean: 27
Design interface: 27
Conclusion 34
REFERENCES: 35

Abstract

The goal is to develop an improved student registration system for JNEC College. The existing system causes delays and requires manual processing. The propose student registration system that allows students to register from anywhere on campus, thus reducing time and effort. To ensure a successful implementation, it will employ various planning approaches. The research confirms the practicality and advantages of this solution. It will follow a structured approach to ensure the system meets quality standards and gains acceptance within the college community. By implementing this system, we aim to make registration seamless and efficient for all users.

Introduction

The system aims to modernize registration at JNEC College by introducing a student registration system that addresses challenges like lengthy manual procedures, resource waste, and data security. The system will enable students to register anywhere on campus, alleviating lines and reducing administrative tasks. By embracing paperless operations and robust data security, the project seeks to streamline processes, boost efficiency, and safeguard sensitive information. The focus includes improving enrollment procedures, maximizing resource use, guaranteeing data security, and lightening the workload of the staff. Feasibility studies have shown that the system is technically, economically, operationally, politically, and legally feasible. The system supports the college's goals of improving efficiency, reducing resource usage, and securing data. Collaboration between IT staff and administrative personnel is crucial, making use of existing resources and knowledge. A structured method that combines Waterfall and Iterative approaches will ensure timely completion and flexibility to handle unforeseen challenges. The overall system aims to update operations, enhance security, and guarantee compliance, providing significant advantages to JNEC College as well as to staffs and students.

System descriptions

The student registration system streamlines the registration process by eliminating the need for manual paper forms, saving both students and registration service team’s significant time and effort. Students can conveniently register online at their own pace, submitting their information quickly and receiving immediate confirmation. When using student registration systems, the students can simply register at their convenience and submit their information within a short period of time and it will be conforming immediately, and in case, if any lacking information encounters, the admiration will be able to notify the students through emails. Moreover, this registration system facilitates an easier process with a well-secured platform, the student’s data and the payment details will be done through an encrypted method and the database will automatically updates allowing the admiration to have a real-time update about the student’s record. Furthermore, the eco-friendly nature of the system reduces or eliminates paper usage, contributing to sustainability efforts.

Importance of the topic

With the growing number of students in the university every year the staffs and the students face numerous problems like staying in a long queue for submitting the registration from where an individual must be physically present. While the administrative staffs must manually work for attenuation and security. Thus, the registration system will nullify the above problem since the students can register themselves while sitting in their rooms and staff need not have to work intensively nor do they have to worry about the data store or the data security. The staffs can even get the students details in a second since it will be in a digital form even leading to the paperless objective.

Problem statement

1. The students often find it hectare and time consuming as we have to stay in a queue from morning just to register. While the staffs have to manually type in and verify every student's forms.
2. Huge amount of resources such as papers and inks are wasted every year.
3. The data can be easily destroyed when manually stored due to some natural disaster or can even lead to data loss or misplacements.

Proposed System (Solution)

1. In order to solve the above problems we came up with registration system which will remove the problems of time consumption and labor intensive by providing a platform where the students can register from anywhere within the college campus.
2. This system will help to achieve a paperless environment while saving huge resources.
3. Registration system will store every individual's data in a database with good data security where the data of student can be available to the authorized person only.

Aim

Our main aim is to achieve an easy registration with secure system for university students.

Objectives

1. Our objective is to make students rely on the registration system when they report back to the college or when they first register into the college. The students can be able to register without any trouble from their phones and laptops.
2. The system want to reduce the workload of the staffs who are always involved in the manual registration process.
3. The system want to create a platform where we can go paperless and have a secure system as there will be details of each individuals.

Project Analysis

Based on the nature and requirement of registration system, it is necessary to understand the scope, complexity and specific challenges. Here are the analysis;

1. Scope:

- **Optimization of Registration Process:** Waiting in long queues just to register for college leads to time consuming. Our system involves making registration simpler and more convenient, allowing students to register from anywhere within the college campus.

- **Resources Efficiency:** Resources like papers and ink are wasted each year on registration forms by going paperless we can save those resources.

- **Data Security Implantation**: Personal information is precious and should be kept safe. Establishing a secure database ensures that only authorized person can access the data which enhanced the security of personal information.

- **Workload Reduction:** With registration system we can free up the administrative staff from struggling with a paperwork and manual data entry.

2. Complexity:

- **Technological Integration:** In order to work the registration system smoothly with existing college systems it ensures careful planning and coordination to avoid frustrating technical issues for students.
- **Data Security Measures**: To ensure data security it requires advanced encryption, access controls and plans for recovering data to protect against online threats.
- **Scalability:** With the growing number of students who need to register for college, the system requires efficient and effective planning and designing a flexible structure to handle growth.

3. Specific Challenges

- **User Adoption:** Encouraging students and staff to embrace the new registration system might feel might challenging to tackle, especially for those who are used to more traditional methods.
- **Data Migration:** The moving existing student data from manual records to the digital platform requires more attention to detail and sensitivity to the importance of accurate information.
- **Sustainability:** Ensuring the sustainability of the paperless system is akin to tending to a garden; it requires ongoing care and maintenance to thrive. Regular updates and troubleshooting will be necessary to keep the system running smoothly over time.

Software Process Method

Considering the needs and challenges of the registration system, it would be appropriate to utilize the Waterfall to address them effectively;

Waterfall Method

- **Scope Definition:** The Waterfall method uses a step-by-step approach to manage complexity. Each stage (requirements, design, implementation, testing, and maintenance) ensures careful planning for factors like technology integration, data security, and scalability**.**

- **Challenge Mitigation:** Waterfall's emphasis on planning allows teams to anticipate specific challenges. For instance, user adoption can be addressed with early training and support plans. Data migration issues can be identified and planned for, guaranteeing a seamless transition from physical records to the digital system**.**

- **Sustainability Planning:** Emphasizes thorough planning and documentation, which helps create comprehensive long-term sustainability plans. Maintenance and updates can be planned in advance, ensuring the system's durability.

The several reasons for not choosing other development methodologies

- **Clear Project Scope**: The Waterfall method defines the project scope precisely at the start, which is vital for a college registration system. This clarity helps pinpoint specific objectives, such as streamlining the registration process and protecting data. Waterfall's emphasis on clear scope makes it fitting for this project.

- **Structured Process:** Waterfall's step-by-step phases provide a methodical approach to handle the project's complexity. Each phase, from gathering requirements to implementing and maintaining the system, allows for in-depth analysis of technological integration and adaptability. These elements are crucial for a registration system designed for a college setting.

- **Proactive Planning for Challenges:** Waterfall's emphasis on upfront planning enables proactive planning for specific challenges. For example, user adoption and data migration challenges can be identified and addressed early in the project lifecycle, ensuring a smooth transition from manual records to the digital platform.

- **Sustainable System Planning:** Waterfall's emphasis on planning and documentation promotes the creation of comprehensive sustainability plans. Essential maintenance and upgrades can be scheduled and funded in advance, ensuring the stability and ongoing functionality of the paperless system, especially in crucial applications like college registration systems.

- **Adaptability and Continuous Improvement:** When flexibility and ongoing enhancements are needed, the Iterative method is a good choice. However, for a project like a college registration system, where well-defined requirements and adherence to regulations are critical, the more structured approach of Waterfall may be a better fit.

Feasibility Assessment

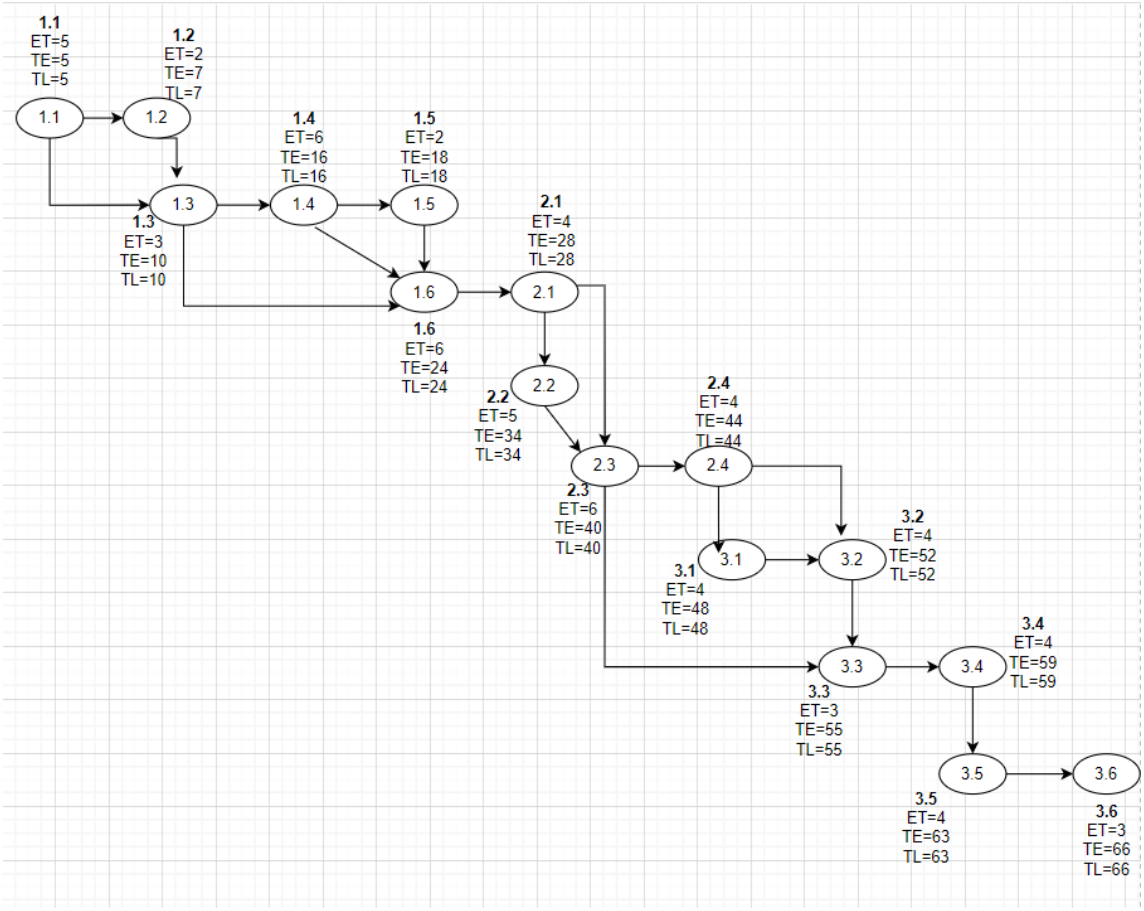
Schedules, Time Line, and Resource Analysis

Task Name	Duration	Start	Finish	Predecessors
1. planning	**24 days**	**Mon 2/26/24**	**Thu 3/28/24**	
1.1 Problem Definition and Scope	5 days	Mon 2/26/24	Fri 3/1/24	
1.2 Meet with users	2 days	Mon 3/4/24	Tue 3/5/24	2
1.3 Context Diagram	3 days	Wed 3/6/24	Fri 3/8/24	3,2
1.4 Access Project Feasibility	6 days	Mon 3/11/24	Mon 3/18/24	4
1.5 Assign Team Role	2 days	Tue 3/19/24	Wed 3/20/24	5
1.6 Write a Base Line Project	6 days	Tue 3/19/24	Tue 3/26/24	4,5
2. Analysis	**19 days**	**Fri 3/29/24**	**Wed 4/24/24**	
2.1 Resource collection	4 days	Fri 3/29/24	Wed 4/3/24	1
2.2 Resource Analysis	5 days	Thu 4/4/24	Wed 4/10/24	9
2.3 Process Modeling	6 days	Thu 4/11/24	Thu 4/18/24	10,9
2.4 Data Modeling	4 days	Fri 4/19/24	Wed 4/24/24	11
3. Design	**22 days**	**Thu 4/25/24**	**Fri 5/24/24**	
3.1 User interface (UI) Design	4 days	Thu 4/25/24	Tue 4/30/24	8
3.2 Data Design	4 days	Wed 5/1/24	Mon 5/6/24	14,12
3.3 Data flow Diagram	3 days	Tue 5/7/24	Thu 5/9/24	15,11
3.4 Security Design	4 days	Fri 5/10/24	Wed 5/15/24	16
3.5 Report Design	4 days	Thu 5/16/24	Tue 5/21/24	17
3.6 Review Deliverables	3 days	Wed 5/22/24	Fri 5/24/24	18

PERT CALCULATION:

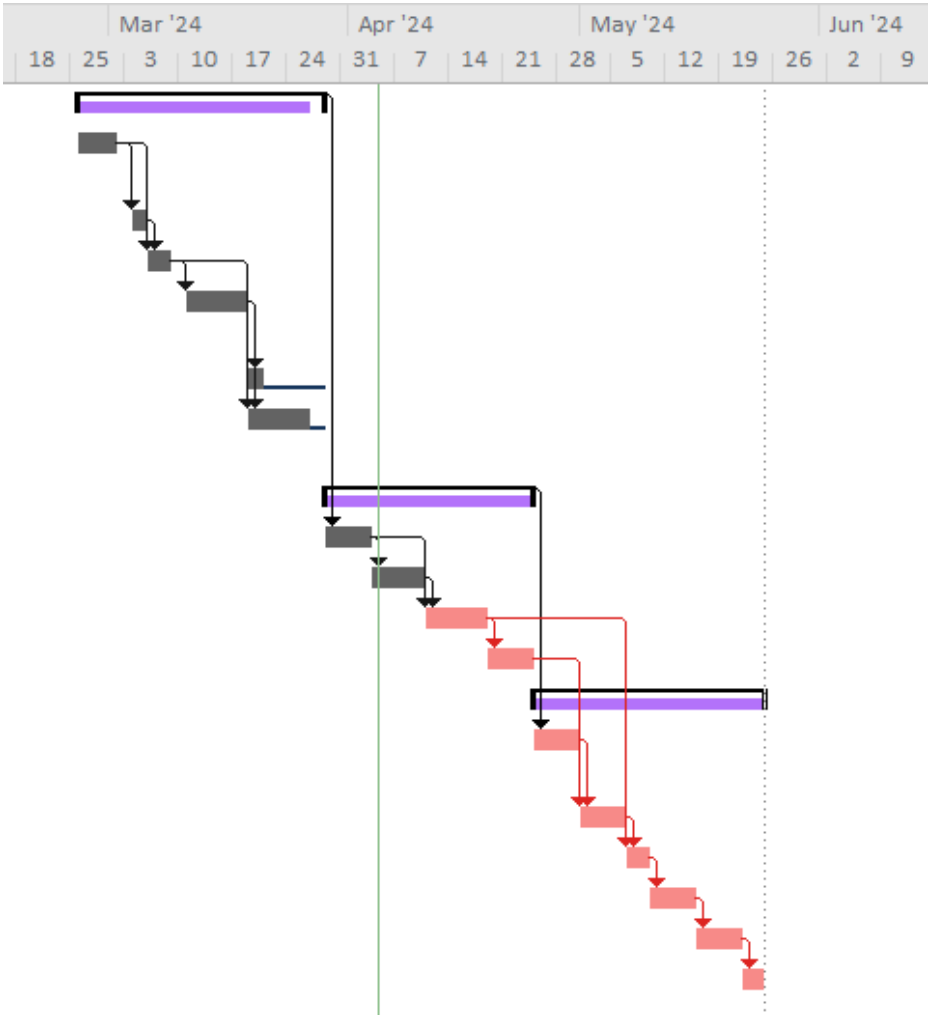
- Time Estimate:

optimistic time(To)	most likely time(Tm)	pessimistic time(Tp)	ET=(To+4*Tm+Tp)/6	TL	TE	slack time
4	5	6	5	5	5	0
1	2	3	2	7	7	0
2	3	4	3	10	10	0
4	6	8	6	16	16	0
1	2	3	2	18	18	0
5	6	7	6	24	24	0
2	4	6	4	28	28	0
4	5	6	5	34	34	0
5	6	7	6	40	40	0
3	4	5	4	44	44	0
3	4	5	4	48	48	0
2	4	6	4	52	52	0
2	3	4	3	55	55	0
3	4	5	4	59	59	0
3	4	5	4	63	63	0
2	3	4	3	66	66	0

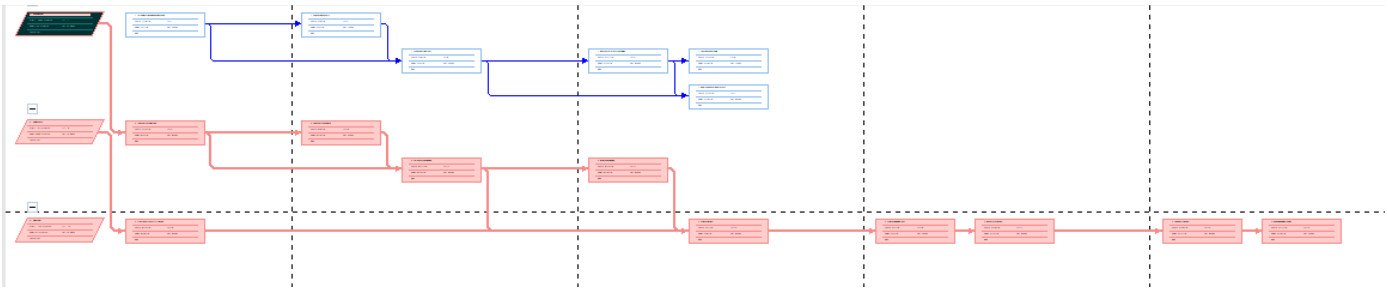


- Critical path : 1.1–1.3—1.6—2.1—2.3—3.3—3.4—3.5—3.6

Gantt chart:



Network Diagram



Student Registration System

Economic Analysis

- In this project, we estimate initial development and setup cost 10,000.
- Software updates, maintenance and training cost 4000 per year (which is 40% of the development and setup cost)
- Cost of resources such as printer, ink and paper is decreased by 14500 per year.
- Discount rate 10% per year.

	Year				
	0	1	2	3	Total
1.Benefits:					
Increased Revenue					
Decreased Costs	0	14500	14500	14500	
Total Annual Benefits	0	14500	14500	14500	
Discount rate	0	1.1	1.21	1.331	
Present Value (Benefits)	0	13181.82	11983.47	10894.06	
Net Present value(Benefits)	0	13181.82	25165.29	36059.35	**36059.35**
2. Costs:					
Development	-10000				
Operational	0	-4000	-4000	-4000	
Total Cost	-10000	-4000	-4000	-4000	
Discount rate	1	1.1	1.21	1.331	
Present Value(Cost)	-10000	-3636.36	-3305.79	-3005.26	
Net Present value(Cost)	-10000	-13636.36	-16942.15	-19947.41	**19947.41**
3. Net Values					
Annual Net Value	-10000	-454.55	8223.14	16111.95	**16111.94**
4. Return on Investment(overall ROI)					**0.81**
5. Break Even Analysis					
Yearly Net Present Value Cash flow	-10000	9545.45	8677.69	7888.81	
Overall Net Present Value cash flow	-10000	-454.55	8223.14	16111.95	
Project Break Even Point is between 1 and 2 year					
Break Even Point fraction	0.1				
Actual Break Even Point is 1.1 year					

Decreased Cost

Resources	Quantity	Price	Total (Q*P)
Paper	2	700	1400
Printer	1	5500	5500
Cartridge	3	750	2250
Grand total:			**14,500**

Operational cost

	Cost
Labor Cost	2000
Food Cost	1000
Internet	1000
Total	**4000**

- The financial assessment of the system indicates that it is economically feasible, with promising results that show increased revenue and decreased costs over time. This is expected to lead to positive financial outcomes, with benefits consistently outweighing costs. The positive Net Present Value (NPV) suggests that the system will generate profitable returns. The Return on Investment (ROI) of 0.81 further supports its profitability. Additionally, the break-even analysis reveals that the project will start generating positive cash flows earlier than anticipated, between Year 1 and Year 2, with the break-even point actually occurring at 1.1 years. This early profitability reinforces the economic viability of the system. Overall, considering these factors, the system appears to be a financially sound investment. However, it's essential to assess operational risks, market conditions, and strategic alignment before making a final decision.

Intangible Benefits

- Time Savings: The system frees up staff time previously spent on manual paperwork, allowing them to focus on more value-added tasks. While this benefit isn't directly quantifiable in monetary terms, it improves overall efficiency and productivity within the college.

- Enhanced Data Security: By centralizing student information in a secure digital system, the college mitigates the risk of costly data breaches or loss. The peace of mind that comes with knowing student data is safe is an intangible benefit that adds value to the institution.

- The system keeps student information safe, so the college doesn't have to worry about expensive data breaches or losing important information. Even though it might cost some money to set up the new system, in the long run, the money saved and the benefits gained make it worth it in the college.

Technical Analysis

- JNEC College have IT officer and staff who know how to program, test and fix any issues with the system. This means we don’t have to hire outside experts.

- JNEC College already have necessary infrastructure like computers, server and network resources which are essential for deploying and running the registration system.

- Students can do registration and administration can view from different kinds of technologies such as phones and laptops.

- The combination of available technical resources, infrastructure and expertise makes the implementation of a student registration system feasible and practical within a JNEC College environment.

Operational Analysis

- The system aims to make registration for students easier where students can register from anywhere on campus through their phones and laptops, avoiding long queues and saving time compared to multiple form filled manually by the students. Administrative staff no longer have to handle paper forms, reducing their workload and the chance of mistakes. By going paperless, the JNEC can save money on materials like paper and ink. Students get a simpler process, staff have less paperwork, and the college saves money while keeping data secure. This system is operationally feasible because it simplifies processes of students and saves resources of college.

Political Analysis

- The student registration system at JNEC College is politically feasible because everyone important at the college accept the system. The leaders of the college believe it will make things work better, save money, and make students happier. The staff who handle paperwork are happy because it makes their jobs easier, less work for them and fewer mistakes. Most importantly, students likes the system because it makes registering for students easier and quicker compared to manual register. Since everyone important at the college supports it, the system is feasible to implement in the college.

Legal and contractual Analysis

- Setting up the student registration system at JNEC College is simple from a legal and contractual standpoint. The system is handled internally by the students of college eliminating any copyright or confidentiality issues. As the college owns the system's intellectual property, there are no copyright worries. The data managed by the system aligns with the college's policies and data protection regulations (e.g., GDPR) since it's exclusively used for internal administrative purposes. Non-disclosure agreements aren't necessary because the system doesn't involve external parties handling confidential information. Therefore, the system poses no significant legal concerns. Thus implementation of the system feasible and beneficial for JNEC College.

Management Issues

Team Configuration and Management

- Our team consists of four members where team is lead and coordinate by Dorji Chodup managing the overall of the project, manages the necessities and perform the most of the project processing by Pelden Wangchuk, system development and coding related were perform by Sangay Eden and Sonam Choki provides side by side support to the team and graphic design of the system.

Communication Plan

- Till date project is progressing successfully where from very beginning team share beautiful ideas and appropriate mechanisms to run our project. While doing this project the team will gather every Wednesday after lunch and if necessary we will also gather after class hour in other week days to deliver the report on the task which were given to the members and also if any members are out of station or not able to gather, we would be communicating through social media platform like WhatsApp and Google meet. Once the task is reported to project coordinator, the coordinator will verify and finalize the tasks and coordinator will contact with advisor for feedback and recommendation through WhatsApp and mail.

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Project Standards and Procedures

- In our project process, every part of the work gets checked multiple times to make sure it's up to our standards. First, team members check their own work to find any issues and make them better. After that self-check, the work goes to a module tutor, who is like a user as well as project advisor. They go over everything carefully to make sure it follows the project rules and matches what we're supposed to be learning. The feedback they give us helps us make our work even better. When the tutor approves our work, it means we're on the right track and meeting the goals of the project and the academic standards. This process keeps us on track and helps us improve our skills as we work towards our project goals.

Requirement Determination

- The requirement determination method used by our group is interviews, especially when engaging with stakeholders like the exam cell coordinator will lead to more profound insights and detailed interpretations. It allows us to gain more information about the detailed needs; misunderstandings get clarified and assist in maintaining close project alignment with what the organization needs if interviews are conducted on relevant matters like those in exam cell. Furthermore, this method ensures that follow-up questions can be approached flexibly, or more areas can be explored of interest, which ultimately allows for a sound comprehension of the needs.

Summary of interview

- During interview, exam cell coordinator highlighted that the existing registration method does not have security measures due to its dependence on manual methods. A daily backup procedure is however available, but the lack of authentication renders it susceptible to data loss. Moreover, student information is saved in electronic format which also makes them prone to being intruded. And to have an effective online registration system for students, the system requires a comprehensive set of features to streamline administrative processes and ensure smooth communication. Key elements such as student number, name, and program serve as foundational identifiers, allowing accurate storage and management of student information. Year/semester tracking enables monitoring of academic progress and ensures students are enrolled in appropriate courses. CIDs and dates of birth verify identity and eligibility, while parents' names and contact details provide crucial emergency contact information and facilitate communication with guardians. Address data aids in correspondence and residency status determination, and specifying the mode of study helps tailor support services. Both parents and students contact numbers enable direct communication for important notifications and emergencies. Together, these features form a robust system, enhancing efficiency and support for students throughout their academic journey.

Requirement Gathering

Functional Requirements

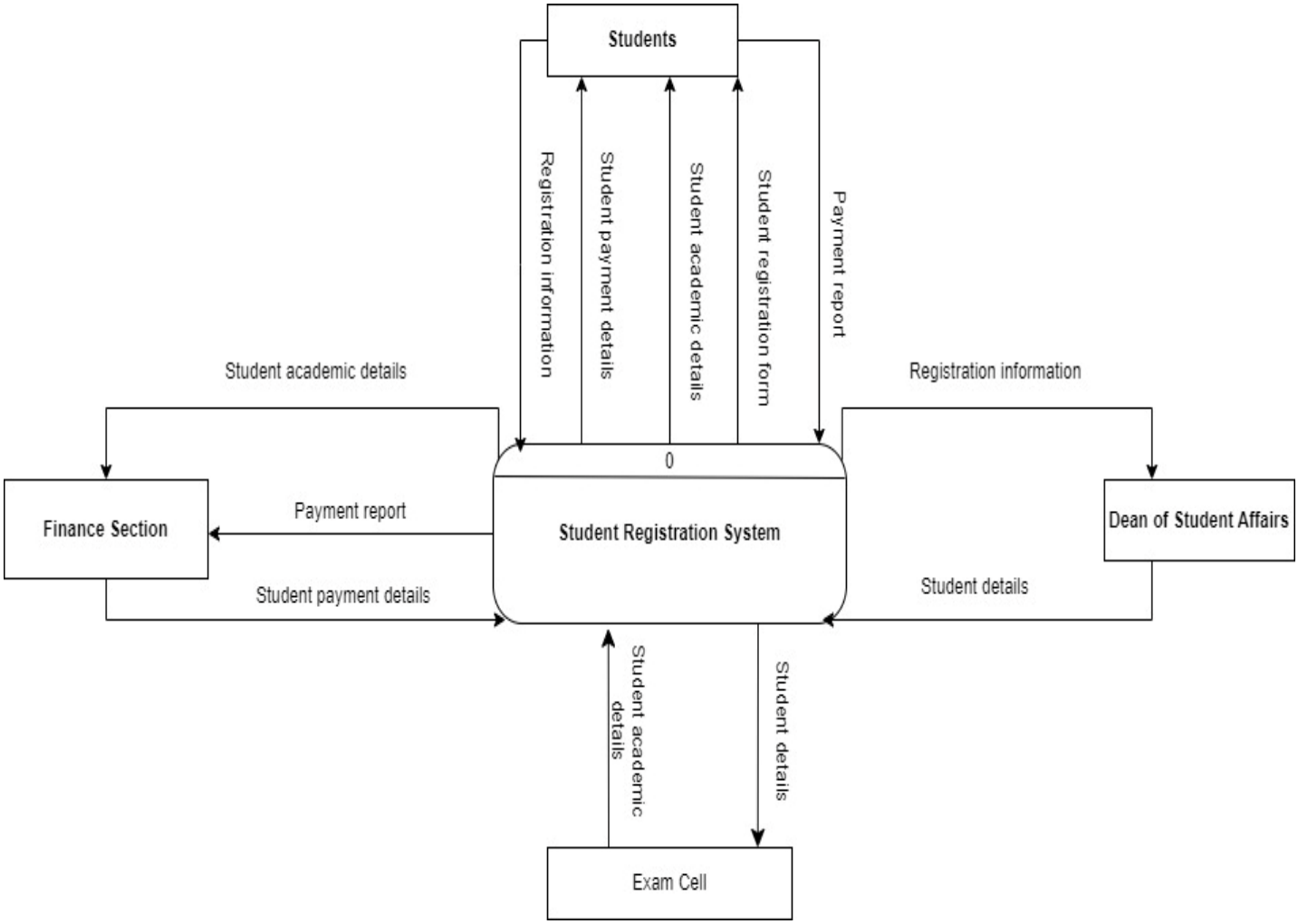
1. **Log in**
    - The system authenticates users by verifying their ID and password. It supports different user roles like students and administrators and includes security features such as password encryption and login attempt limits.
2. **Display**
    - The system displays appropriate forms for data entry and student profiles, which are dynamically populated based on the user's role and data requirements.
3. **Add**
    - New students can enter their personal and educational information. The system validates data entry to ensure integrity and supports attachments like document uploads.
4. **Modify**
    - Students can update their personal information. The system includes checks to prevent unauthorized changes and tracks modification history.
5. **Generate**
    - The system generates lists of student enrollments for stakeholders and administrators to review. It offers features like filtering, sorting, and exporting enrollment lists and ensures secure access based on user permissions.
6. **Delete**
    - Administrators can remove records of students who are no longer active, with options for both soft (archiving) and hard deletions. Confirmations are required before deletions are finalized.
7. **Payment**
    - Students can make fee payments through the system, which integrates with payment gateways for security. It provides real-time payment information to the finance department and generates payment confirmations and receipts for students.
8. **Update**
    - Administrators can update student records in the database, including batch updates and individual record management. All updates are logged for audit purposes.
9. **Log out**
    - Users can securely log out of the system, which ensures session termination to prevent unauthorized access and confirms successful logout.

Non-functional Requirements

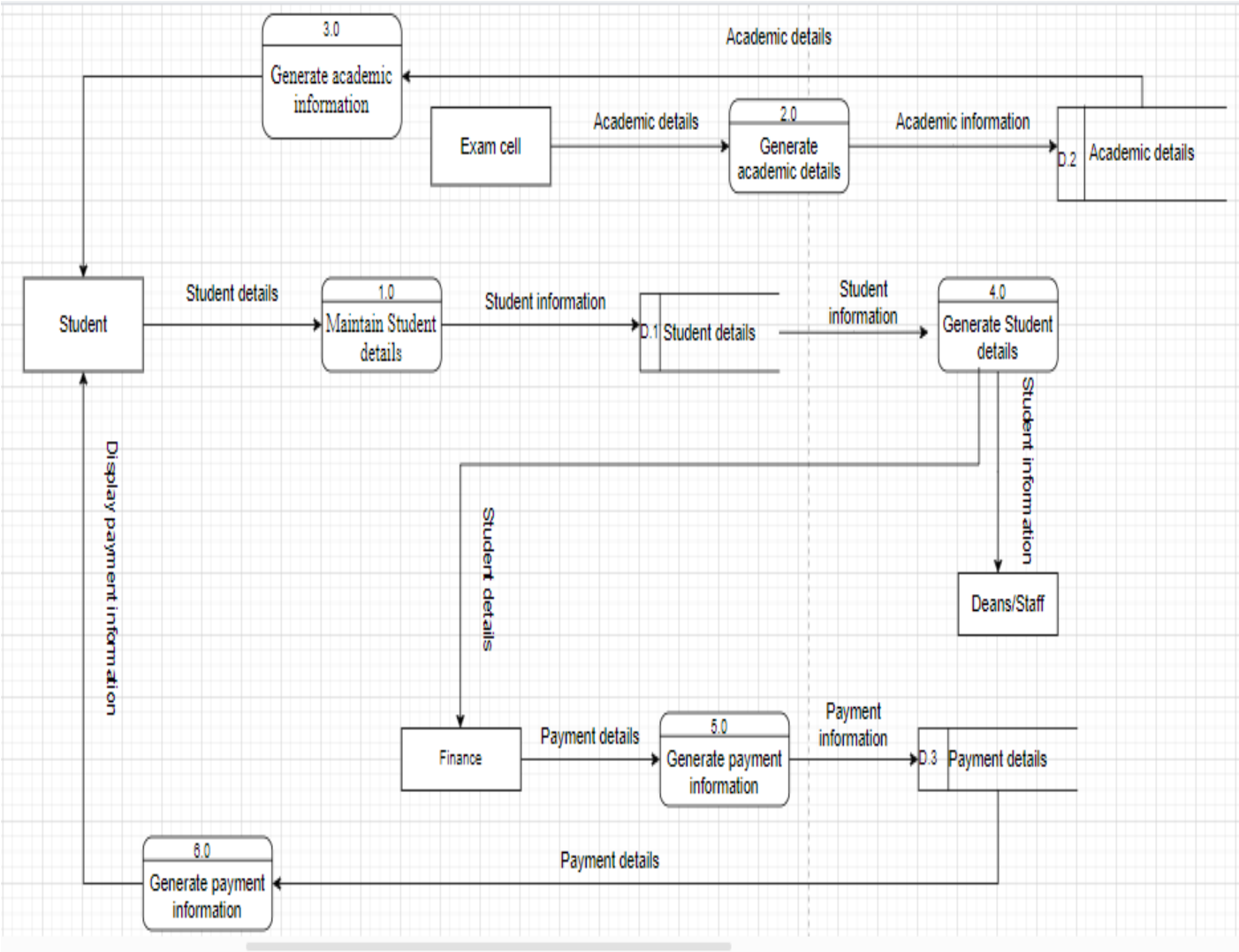
1. **Usability**
    - Ensure the system is user-friendly with intuitive navigation and clear instructions to minimize learning curve.
    - Accessible design compliant with ADA (Americans with Disabilities Act) standards.
2. **Performance**
    - Ensure system responsiveness, with capability to handle high traffic volumes during peak registration periods.
    - Fast processing of payments and registrations.
3. **Security**
    - Implement robust data encryption and secure data storage practices.
    - Regular security audits and compliance with GDPR for handling of personal information.
4. **Reliability**
    - Achieve high availability with minimal downtime.
    - Implement failover mechanisms to ensure continuity of service.
5. **Scalability**
    - Design the system to easily accommodate increasing numbers of users and data volume without performance degradation.
    - Allow for modular upgrades to incorporate additional functionalities as needed.
6. **Maintainability**
    - Code should be well-documented to facilitate updates and maintenance.
    - Use modular architecture to simplify updates and maintenance.
7. **Interoperability**
    - Ensure the system can integrate smoothly with existing college management systems and databases.
    - Support data exchange in standardized formats.
8. **Compliance**
    - Ensure the system adheres to educational regulations and privacy laws.
    - Maintain logs and records to support compliance auditing.

Process Modeling

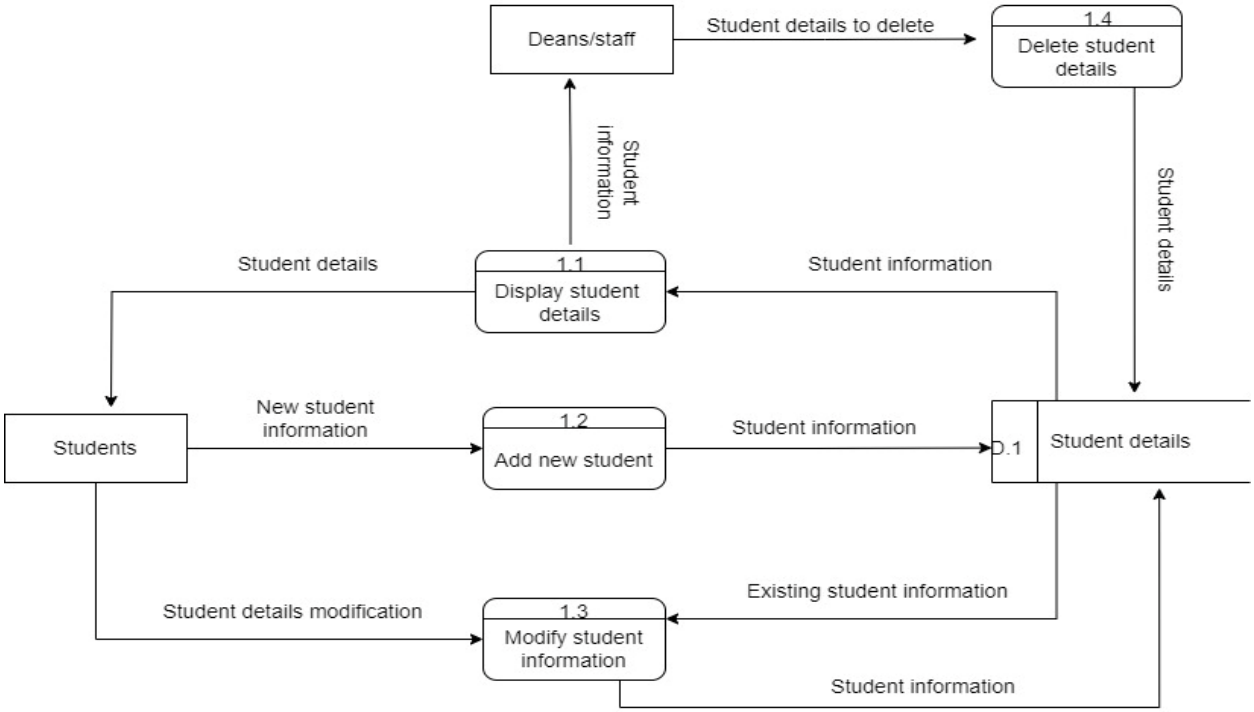
Context Diagram



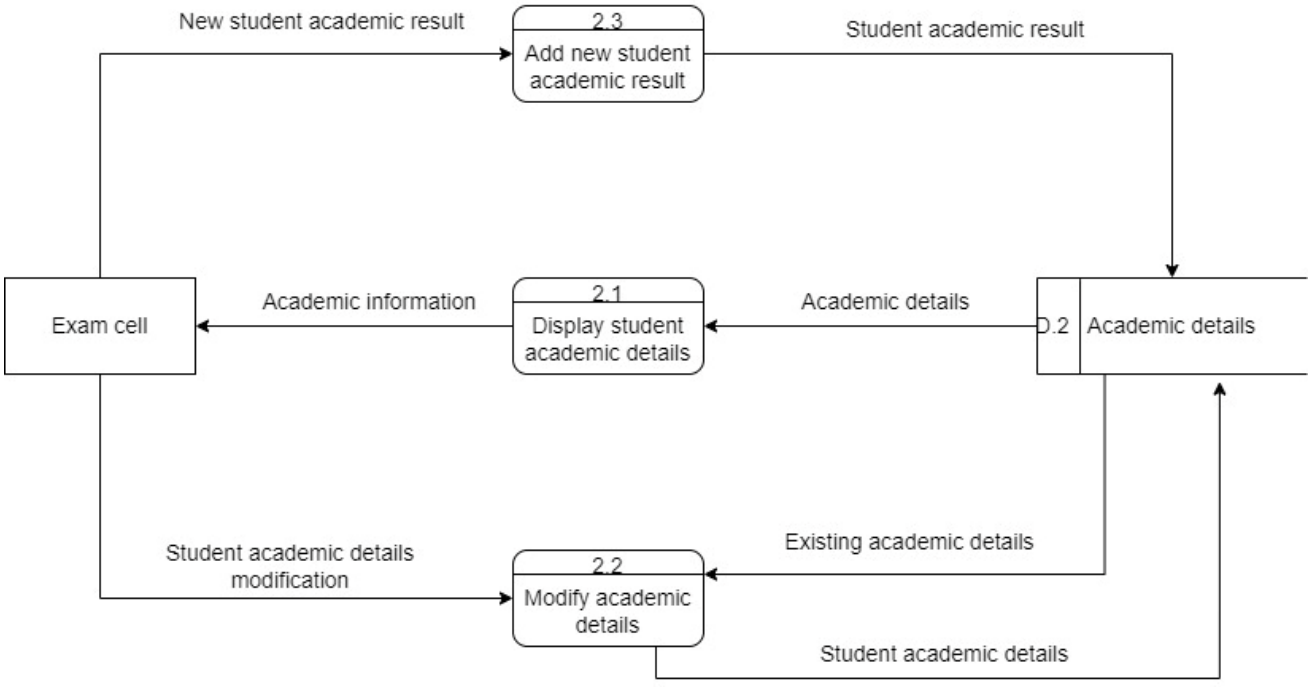
DFD diagram level 0



Level 1 DFD for Process 1: Maintain Student details



Level 1 DFD for process 2 Generate Academic Information



Logical modeling

Decision Tree for Process 1: Maintain Student details

Condition / Course of Action	Rules							
	1	2	3	4	5	6	7	8
Valid Username	Y	Y	Y	Y	N	N	N	N
Valid Password	Y	N	Y	N	Y	N	Y	Y
Type of Student	S	F	F	S	S	F	S	F
Display Enrollment number	X		X					
Add New Student			X					
Modify Student Information	X							

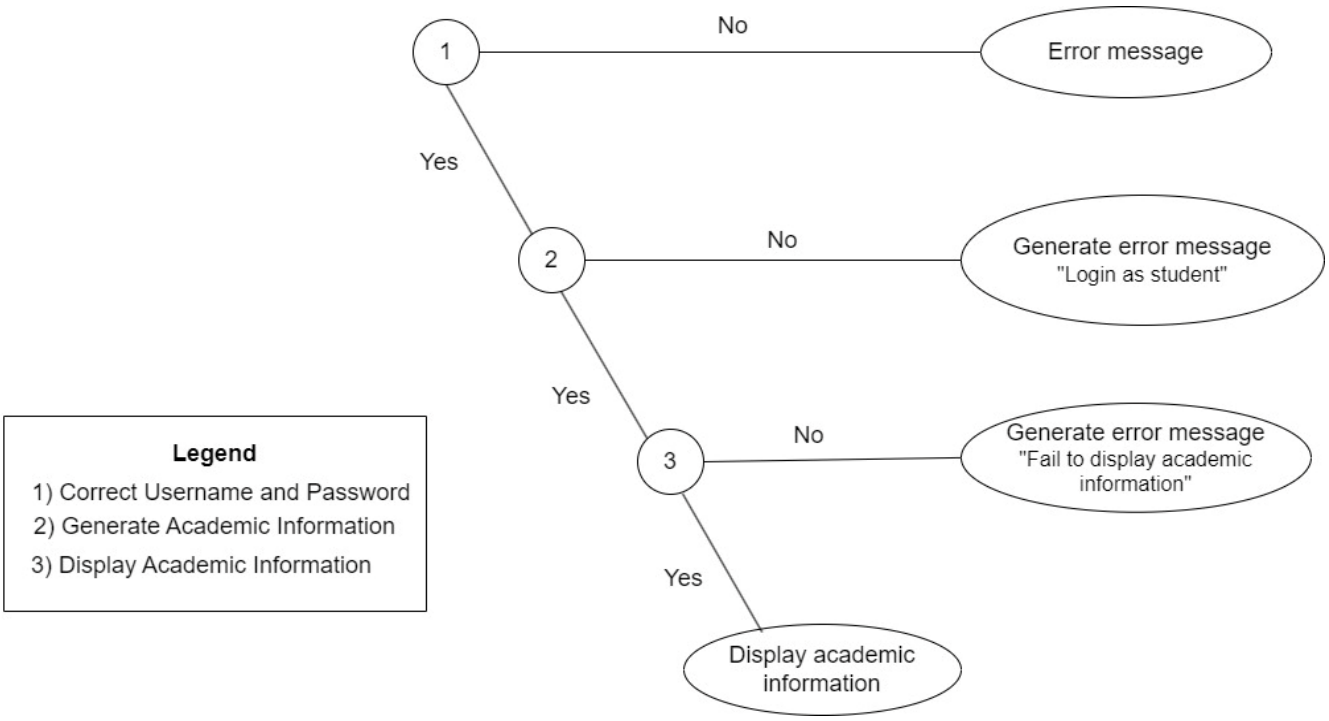
Legend	Type of Student
Y = Yes	F = Fresher
N = No	S = Senior

Reduced Table:

Condition / Course of Action	Rules				
	1	2	3	4	5
Valid Username	Y	Y	Y	Y	N
Valid Password	Y	N	Y	N	-
Type of Student	S	F	F	S	-
Display Enrollment Number	X		X		
Add New Student			X		
Modify Student Information	X				

Legend	Type of Student
Y = Yes	F = Fresher
N = No	S = Senior

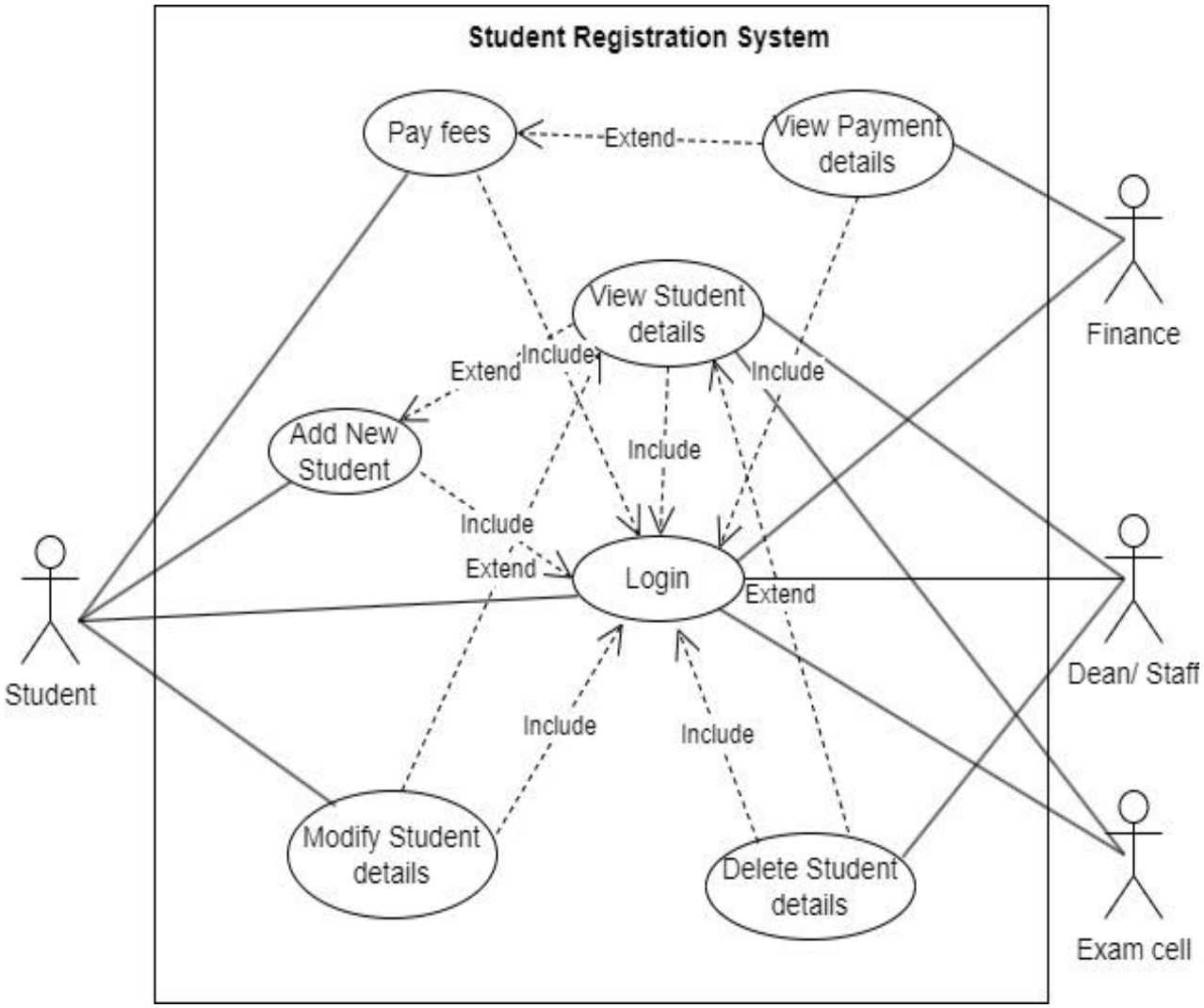
Decision Tree for process 2 Generate Academic information



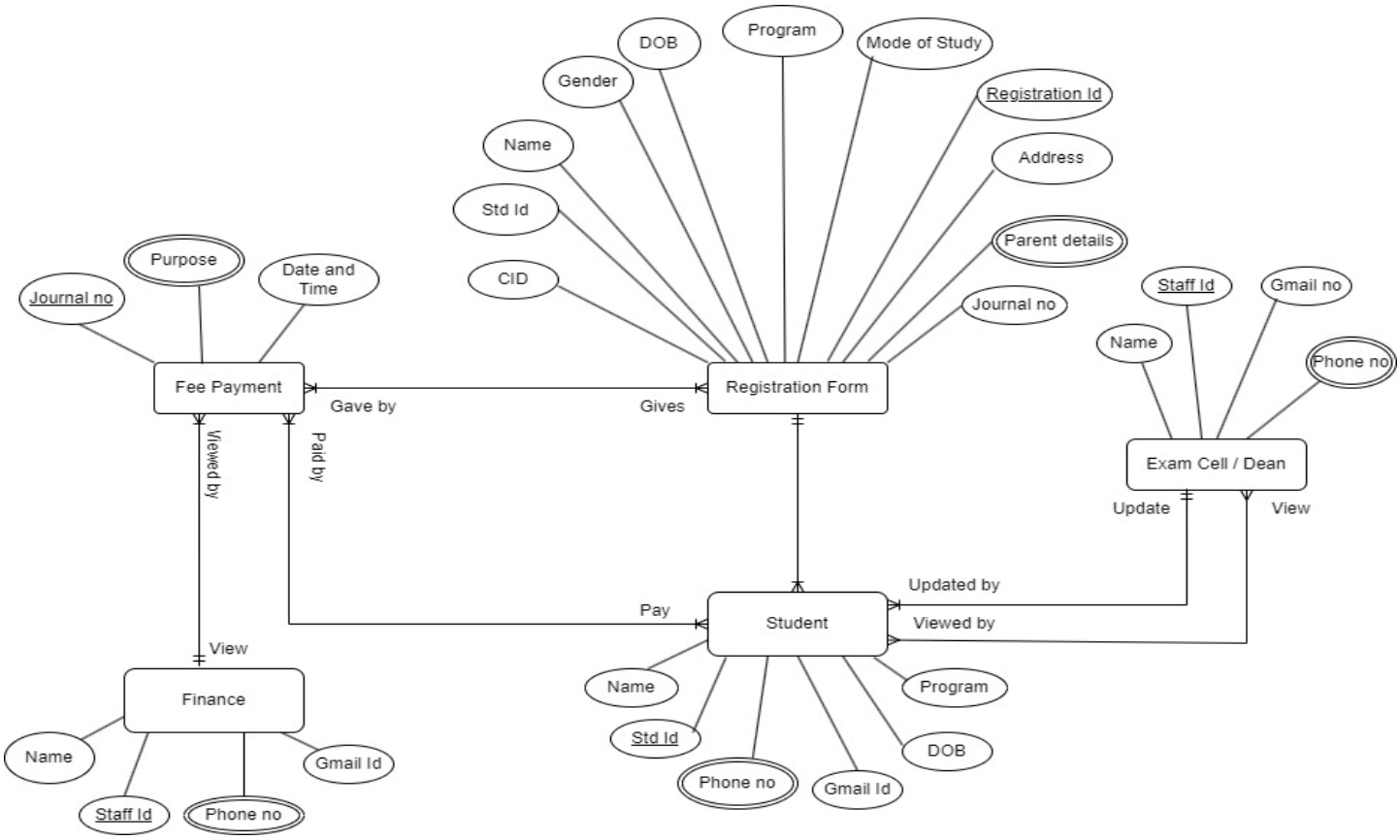
Structured English for Process 5: Generate Fee Payment

READ Today's-date
SET fee to 1500
DO
    READ username and password
    FIND matching records
    BEGIN IF
        IF fee paid by student = fee
            THEN GENERATE payment receipt
        ELSE DO show error
    END IF
UNTIL End-of-file

Use Case Diagram



Entity-Related Diagram (ERD)



Data dictionary:

Student:

attribute	**description**
std id	Unique identifier for the student
name	Name of the student
Phone no	Contact number of the student
Gmail id	Email address of the student
program	Academic program the student is enrolled in
CID	Citizenship ID of the student

registration form:

attribute	**description**
Registration id	Unique identifier for the registration form
Std id	Unique identifier for the student(foreign key)
name	Name of the student
DOB	Date of birth of the student
Gender	Gender of the student (male/female)
Address	Address of the students
Parents details	Details of the student's parents
program	Academic program the student is enrolled in
Mode of study	Mode of study (govt. scholarship /self-funding)
CID	Citizenship ID
Journal no	The unique number received after the fee payments are done from any transaction channel

Fee payment:

Attributes	**Description**
Journal no	The unique number received after the fee payment is done from any financial channel
purpose	Purpose of the fee payment
Date and time	Date and time of the fee payment

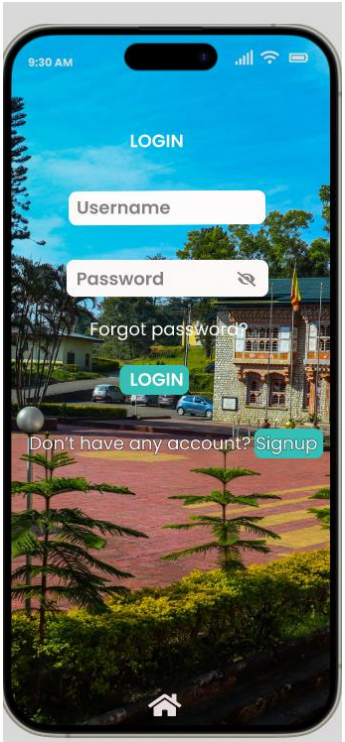
Finance:

Attributes	**Description**
Staff ID	Unique identifier for the finance's staff
Phone no	Contact number of the finance's staff
Gmail id	Email address of the finance staff

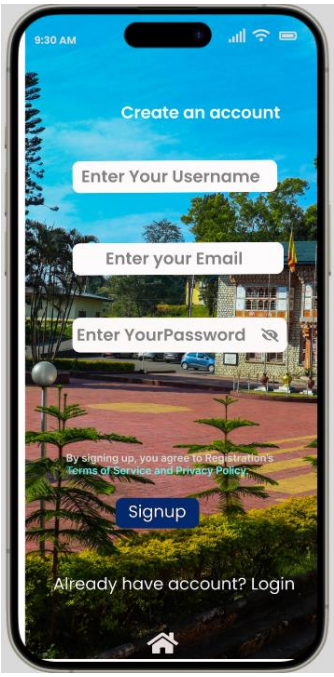
Exam cell / Dean:

Attributes	**Description**
Staff id	Unique identifier of the staff
name	Name of the staff
Phone no	Phone number of the staff
Gmail id	Email address of the staffs

Design interface:



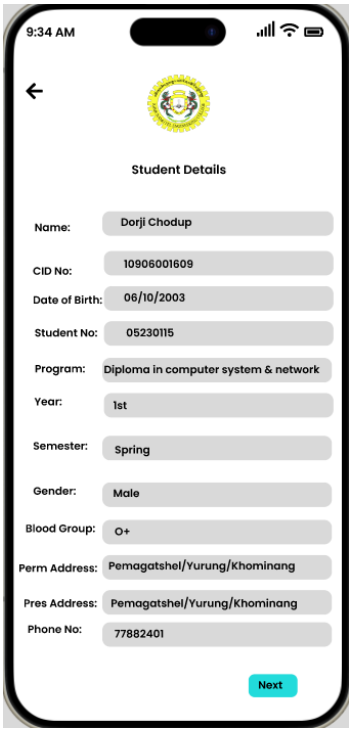
>This interface allows students and staff to log in using their ID/username and password provided by the college.



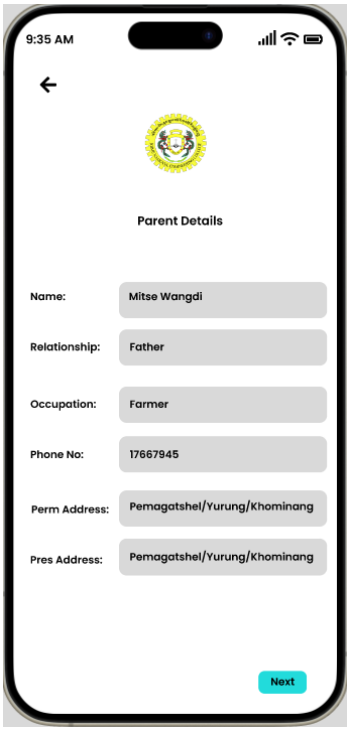
> new users must sign up first by clicking the signup button from the previous interface and entering their name, email and password in this interface.

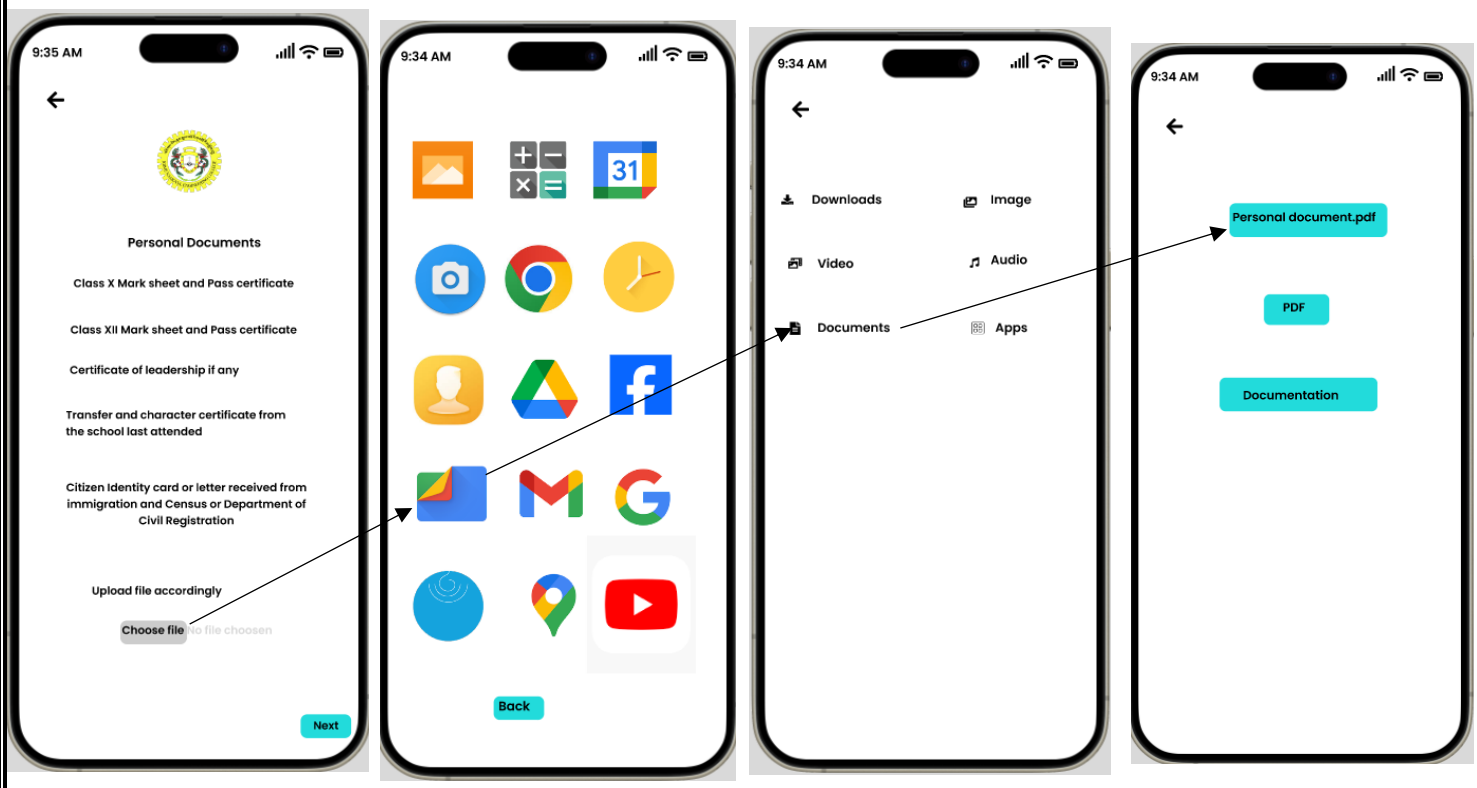
>staffs can view student details by clicking the staff button and the students can choose the student button for registration. (* students cannot enter the staff interface)

>students can select between government scholarship and self- funding accordingly to themselves.

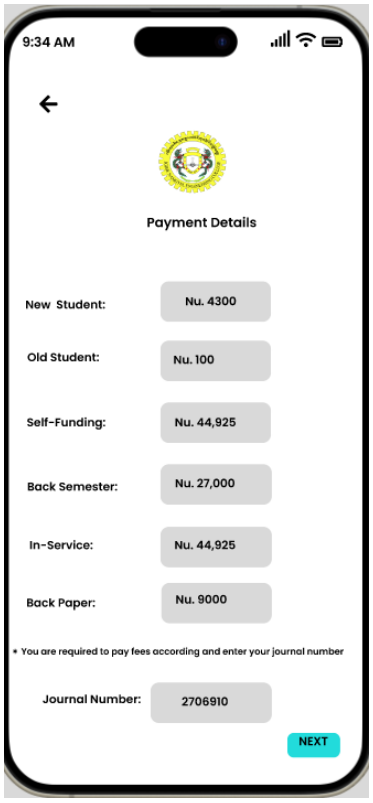


>The student shall enter their personal details and their guardian's or their parents details.

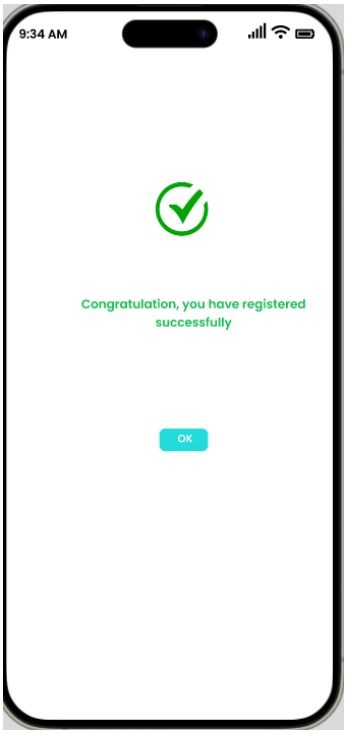




>new students must upload their documents as listed on the first picture. the path to upload the file is shown as above. After choosing the file, click on the **next** button.

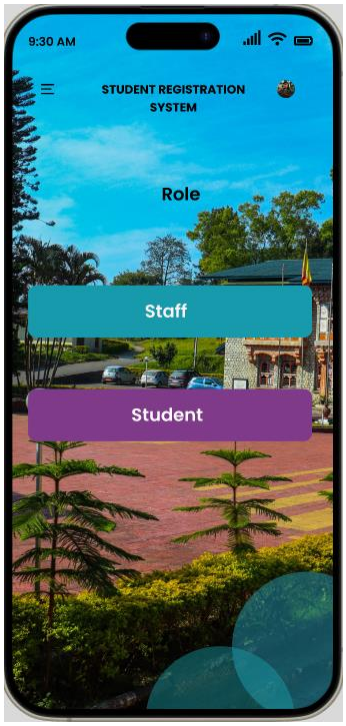


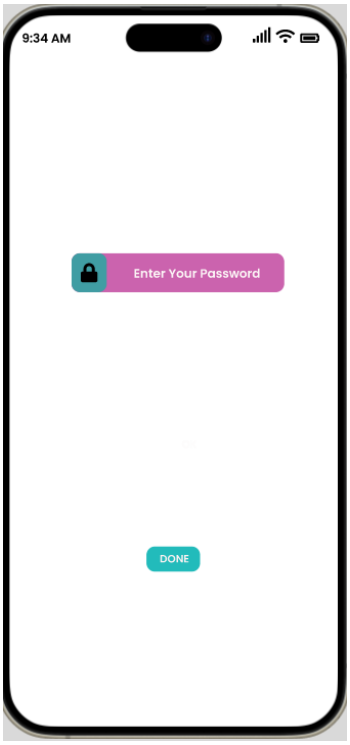
>Students then must pay to the account number provided by the college. The payable amount will be the total of their criteria and a journal number will be received by the students after the payment from their bank which must be compulsorily reflected in the **journal number** space



>This will be displayed if the registration was successful.

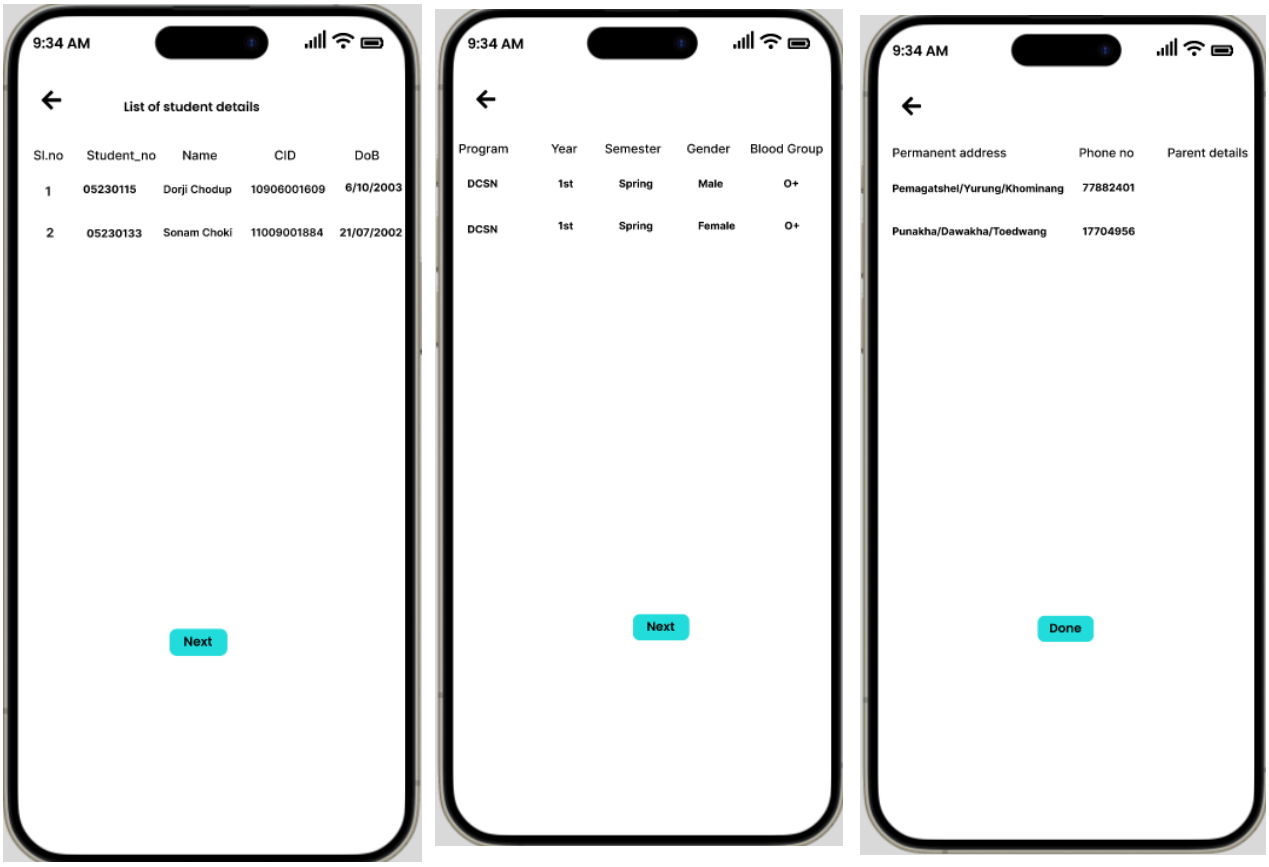
- *The interface and form for self-funding is also as same as the government scholarship interfaces.





>staff members will have to enter their passwords to verify that only authorized people can access the personal details of all the students.

>With this interface the details of the students will be sorted by their department.



>Staffs will be able to view the students detail in this table form.

Conclusion

Implementing the student registration system at JNEC College will make things easier and faster for everyone involved. It will replace old-fashioned paperwork with a modern digital system, saving time and resources. By using the college's existing technology and know-how, we can save money and make registration simpler for students and staff. The system will also keep student information safe and secure, which is really important. Overall, it's a smart investment that will benefit the college by improving efficiency and ensuring data security. With a well-planned approach and clear communication, we're confident that the system will be a success and bring positive changes to JNEC College.

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