Student Name	
Team Name	Out of Range
Project Title	Student Registration System

Activity:

- <u>Write the following.</u>
    1. System Request
    2. Functional and Non-Functional requirements

- <u>Draw the following Diagrams.</u>
    1. Functional Diagram (FD)
    2. Use Case Diagram
    3. DFD Context Diagram
    4. DFD Level-0 Diagram
    5. DFD Level-1 Diagram
    6. Entity Relationship Diagram (ERD)
    7. Mapping Diagram (Schema)

- **Tool used. (All Diagrams)**

    StarUML or EdrawMax
    Site online: https://erdplus.com/

Role No.	Role Name
1	System Request DFD Level-0 Diagram
2	Mapping Diagram (Schema)
3	Functional Diagram (FD) DFD Context Diagram
4	Functional and Non-Functional requirements DFD Level-1 Diagram
5	Entity Relationship Diagram (ERD)
6	Use Case Diagram

In case 5 student (role #2 and role #6)

No.	Student Name	Role
1	Ibrahim Mohammed Alghrbawi	1
2	Ahmed Abdullah Nassar	3
3	Nouran Atef Hashad	2, 6
4	Marwa Sami Ghanem	4, 5
5		
6		

Goal of project

This system was built mainly to streamline the process of course enrollment and academic management for students and faculty, and provide a centralized platform for course selection, scheduling, and registration
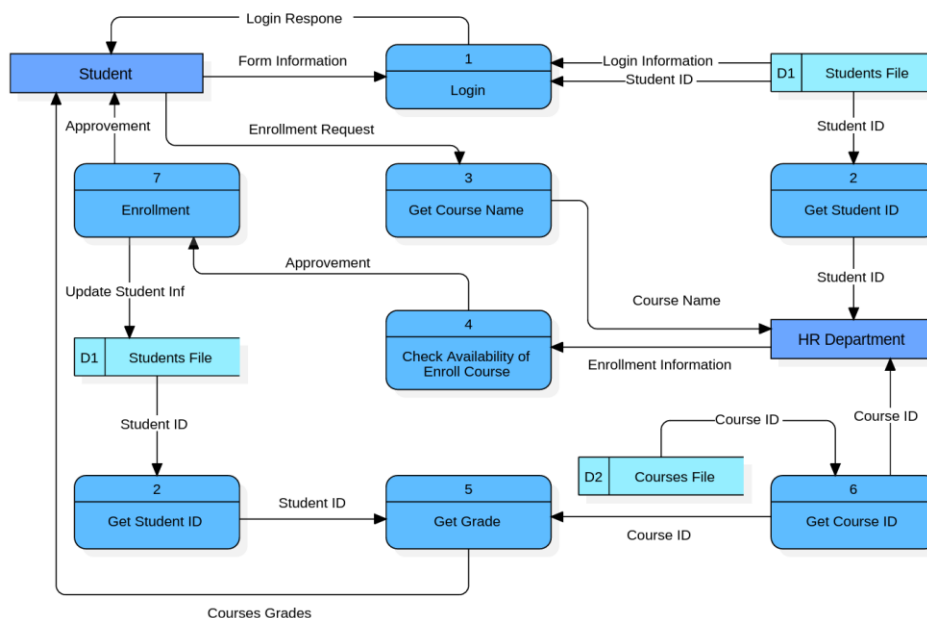
Problem Definition

Project Management (How to distribute roles and manage the team, contain project timeline and milestone)

Deadline	Done in	Task	Member
Week 1 to 12/10	10/10/2023	ERD	Nouran Hashad
Week 2 to 17/10	14/10/2023	DFD Context	Ibrahim Alghrbawi
Week 3 to 23/10	25/10/2023	System Request	Ahmed Abdullah
Week 4 to 15/11	16/11/2023	Requirements	Marwa Sami
Week 5 to 26/11	22/11/2023	Schema	Marwa Sami
Week 6 to 30/11	12/12/2023	DFD Level 0	Nouran Hashad
Week 7 to 7/12	20/12/2023	DFD Level 1	Ahmed Abdullah
Week 8 to 12/12	21/12/20232	Use Case	Nouran Hashad

Role #1

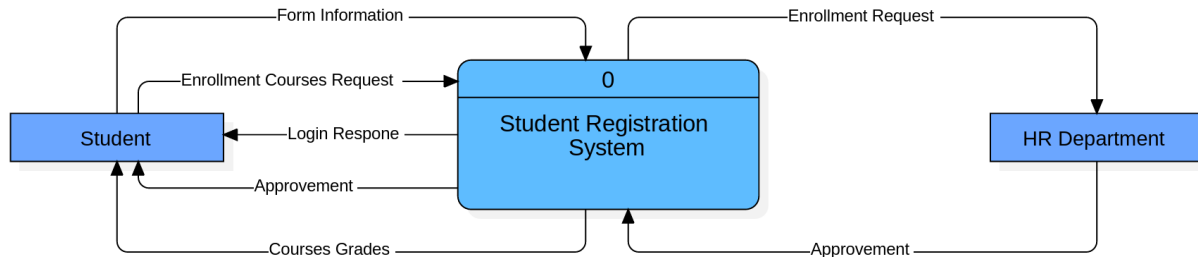| System Request	
Project Name	Student Registration system
Project Sponsor	**Name :** Ahmed Mohmed Mostafa
	Dept : Academic Affairs
	Phone : 01210025251
	E-mail : Ahemd10025@gmail.com
Business Need	• To streamline the process of course enrollment and academic management for students and faculty. • To provide a centralized platform for course selection, scheduling, and registration
Business Requirement	• User-friendly interface for students to search and register for courses. • Automated class scheduling to prevent timetable conflicts. • Real-time enrollment updates and seat availability. • Integration with existing student information systems for seamless data transfer.
Business Value	• Increased efficiency in student registration process. • Enhanced student satisfaction with easier course selection and scheduling. • Reduction in administrative workload for faculty and staff. • Improved data accuracy and reporting capabilities.
Special issues or constraints :	• The system must be fully operational before the start of the next academic year (in 4 months). • Compliance with data privacy regulations for student information. • Scalability to accommodate future increase in student numbers and course offerings. • Integration with other university systems (e.g., library, student housing).

DFD Level 0 Diagram
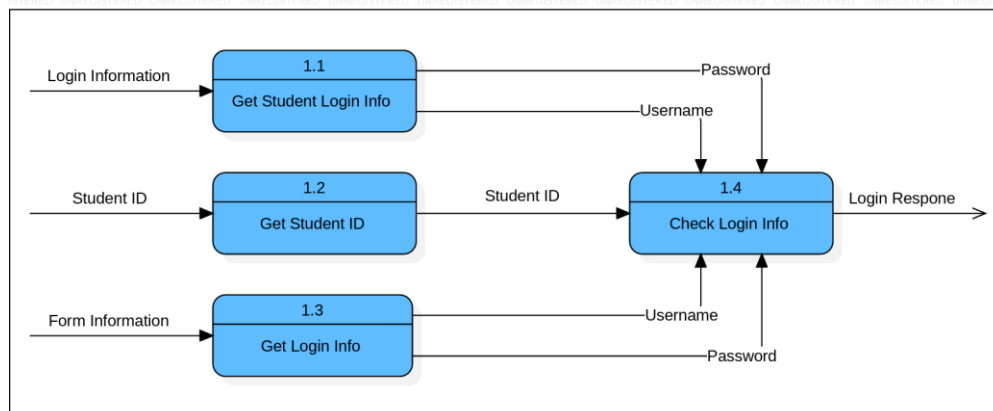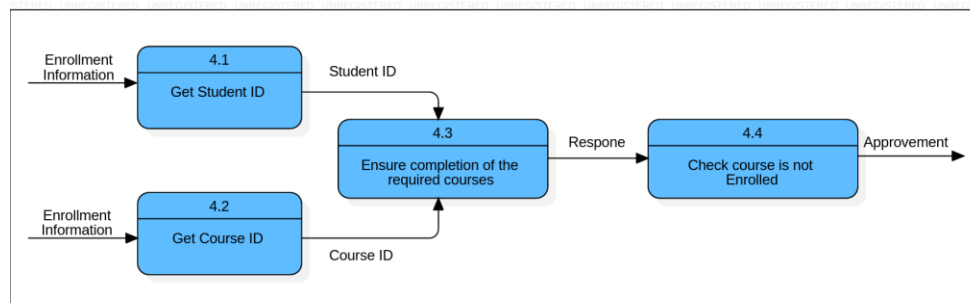
Role #2

Schema Diagram

students
- studentID
- userName
- firstName
- secondName
- gender
- e-mail
- password
- birthDate
- city
- governerat
- joiningDate
- leavingDate

instructor
- instructorID
- city
- governerat
- firstName
- secondName
- phoneNum
- e-mail
- courseCode   (FK)

registration
- registrationID
- studentID
- registrationDate
- studentID
- userName   (FK)

stuNumber
- phoneNumber
- studentID
- userName   (FK)

students/couses
- studentID
- userName   (FK)
- courseCode   (FK)

courses
- courseCode
- courseName
- degree

Role #3

DFD Context Diagram

Student — Form Information → **0 Student Registration System**
- Enrollment Courses Request →
- Login Respone ←
- Approvement
- Courses Grades

HR Department
- Enrollment Request
- Approvement

Role #4

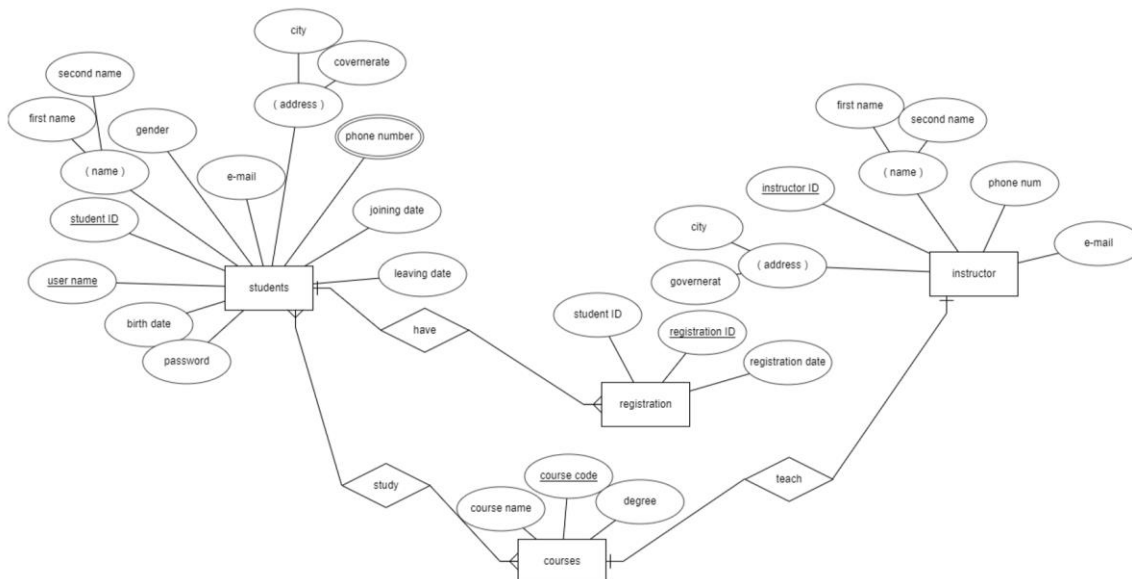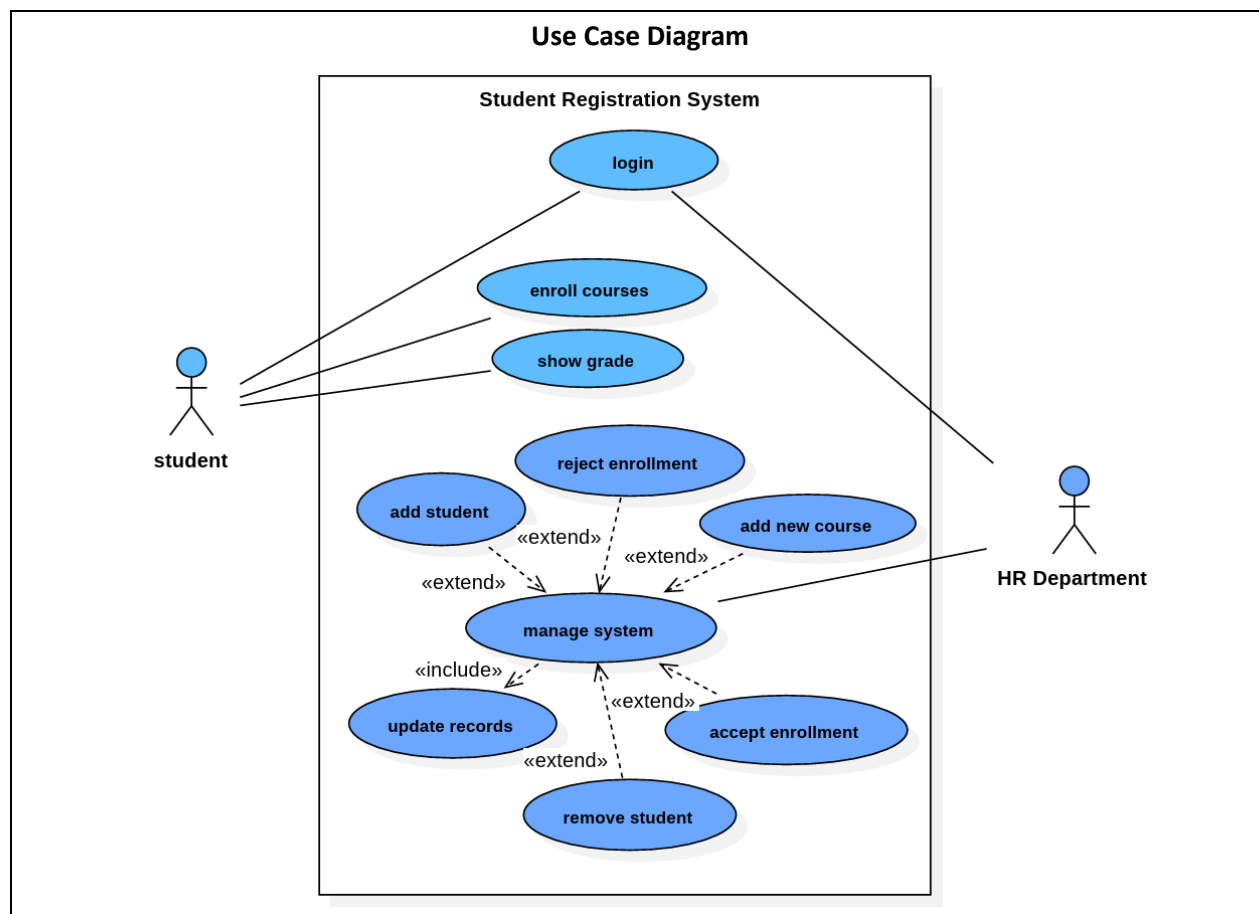| Functional requirements	Non Functional requirements
User Registration: →Allows students and admins to log in.	**Security:** →The system should implement security measures, including encryption and secure authentication, to protect student data.
Course Registration: →Students should be able to select available courses for registration; and the system should prevent registration for conflicting courses.	**Performance:** →The system should handle concurrent user registrations efficiently, ensuring quick response times.
Grade Tracking: →The system should provide a secure platform for students to view their grades and academic performance	**Scalability:** →The system should be designed to accommodate a growing number of users and courses over time without a significant decrease in performance.
Notification System: →Users should receive timely notifications about registration deadlines, class changes, and other relevant updates.	**Usability:** →The user interface should be easy for students with varying levels of technical proficiency. Data Backup and
	Recovery: →Regular backups of student data should be performed, and there should be a reliable mechanism for data recovery in case of system failures or data loss

Level 1 _ Process 1

Level 1 _ Process 4

Role #5

ERD Diagram

Role #6

Use Case Diagram

Student Registration System

login

enroll courses

show grade

reject enrollment

add student

add new course

«extend»

«extend»

«extend»

manage system

«include»

«extend»

update records

accept enrollment

«extend»

remove student

student

HR Department

Future Direction (How to enhance our model in the future)

Conclusion

the student registration project plans to solve problems by assigning tasks, sticking to a schedule, and reaching important goals. Teamwork, a step-by-step process, and listening to users will make the project successful. The aim is to make registering for classes easier and better for everyone involved.