Assiut University

Faculty of Computers & Information

Faculty and Students Scheduling Information System (FSSIS)

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Problem definition

• The Faculty and Students Scheduling and Information System (FSSIS) benefits both students, professors, and teaching assistants by providing them with detailed schedules and information related to the college, including lectures, sessions, and their respective locations and times. It helps students to be aware of all the professors available in their academic year, as well as the academic subjects and the individuals responsible for teaching them, whether professors or teaching assistants.

• Also, it helps the scheduling committee to organize schedules for students, professors, and teaching assistants and to view their schedules systematically, avoiding schedule conflicts.

• It also aids IT technicians in understanding the status of all devices in the college, enabling them to perform necessary repairs. Additionally, it supports student affairs personnel in obtaining details about the facilities, such as available equipment and chairs suitable for use during exams. This information proves valuable for organizing students into examination committees.

Motivation

• The existence of numerous schedules for students, professors, and teaching assistants has led to the problem of schedule conflicts and overlapping appointments. Therefore, the idea solves this issue by providing a single schedule containing all the appointments for students, professors, and teaching assistants.

• Another problem arises for professors and teaching assistants when a lecture or section is canceled. Therefore, one of them wants to compensate for the lecture or section at a suitable time and place for the students. This is achieved by providing the scheduling committee with a schedule that includes both available and occupied time slots for laboratories and lectures. This facilitates the selection of suitable locations by professors and teaching assistants from the available slots.

• Another problem arises specifically for IT technicians, which is the negligent management of laboratories and lecture halls, and the lack of awareness of their status, including the equipment in each lab and lecture hall. Therefore, the idea solves this problem by providing a dedicated schedule for laboratories and lecture halls containing the status of each device and the specifications of each lab and hall as well.
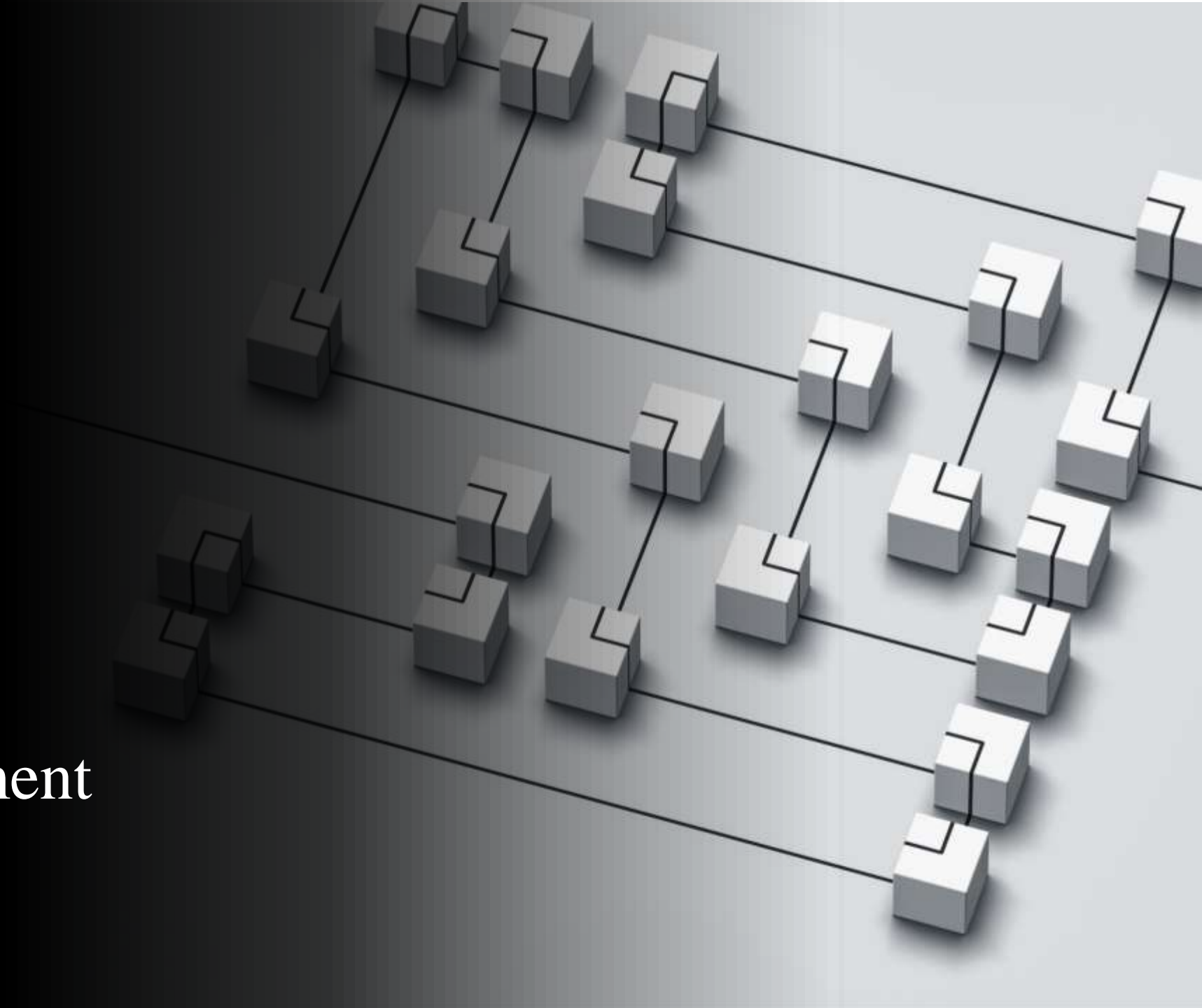
Objective

• The Faculty and Students Scheduling and Information System (FSSIS) aims to facilitate the process of knowing the schedules and locations of lectures and sessions for both students, professors, and teaching assistants without the need to consult multiple schedules. This provides them with schedule stability and prevents conflicts in timings. In the event of any schedule changes, everyone can be informed of such changes and can act accordingly without having to refer to student affairs.

• Moreover, the project enables individuals to know the detailed locations of professors' and teaching assistants' offices, along with their office hours. It also allows administrators to have a comprehensive overview of all schedules for students, professors, and teaching assistants.

• It also aims to improve the quality of facilities and equipment by allowing IT technicians to identify devices that have malfunctions and require maintenance. This includes computers, air conditioning units, chairs, and projectors found in laboratories and lecture halls.
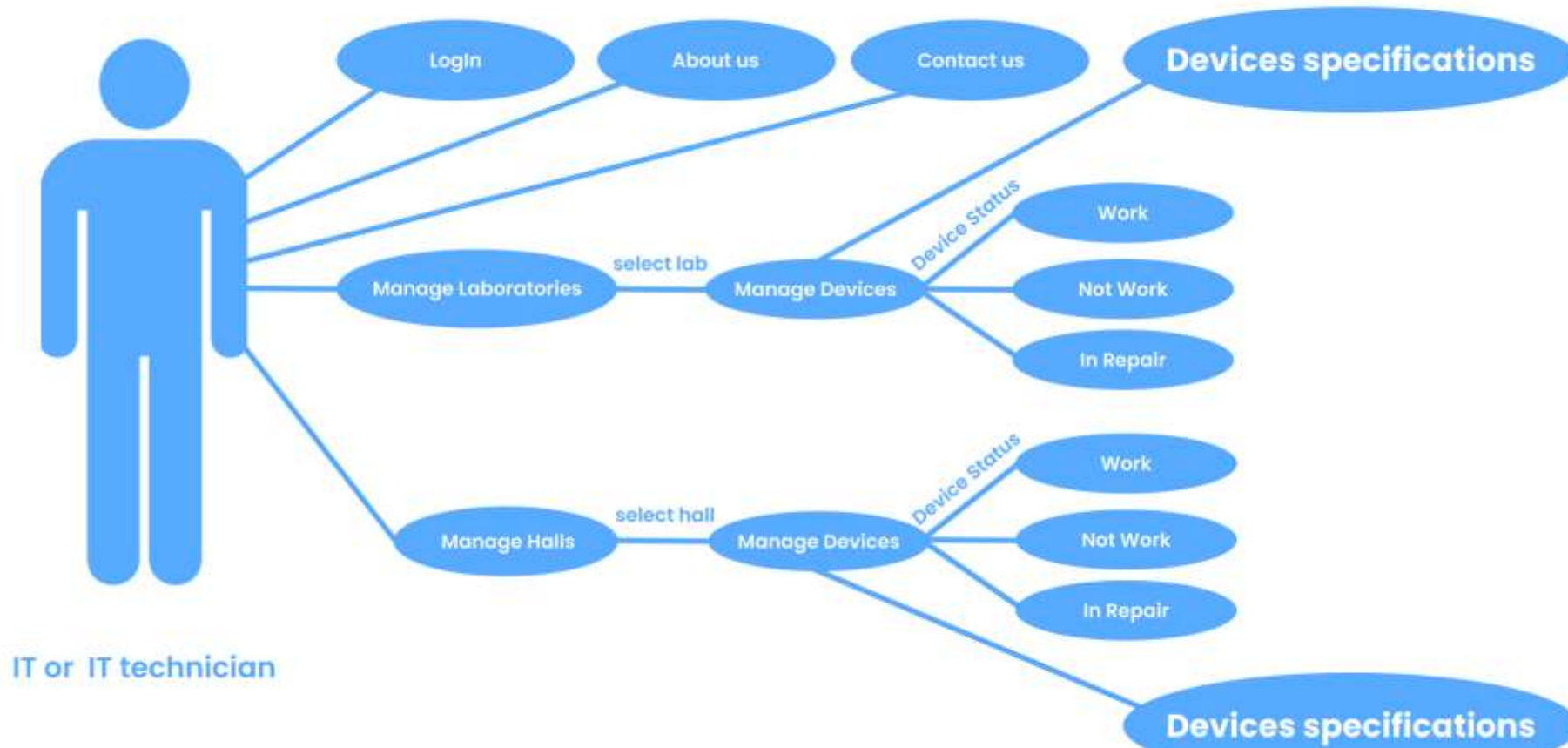
- ERD
- Use case diagram
- Use case scenario
- Activity diagram
- Function requirement
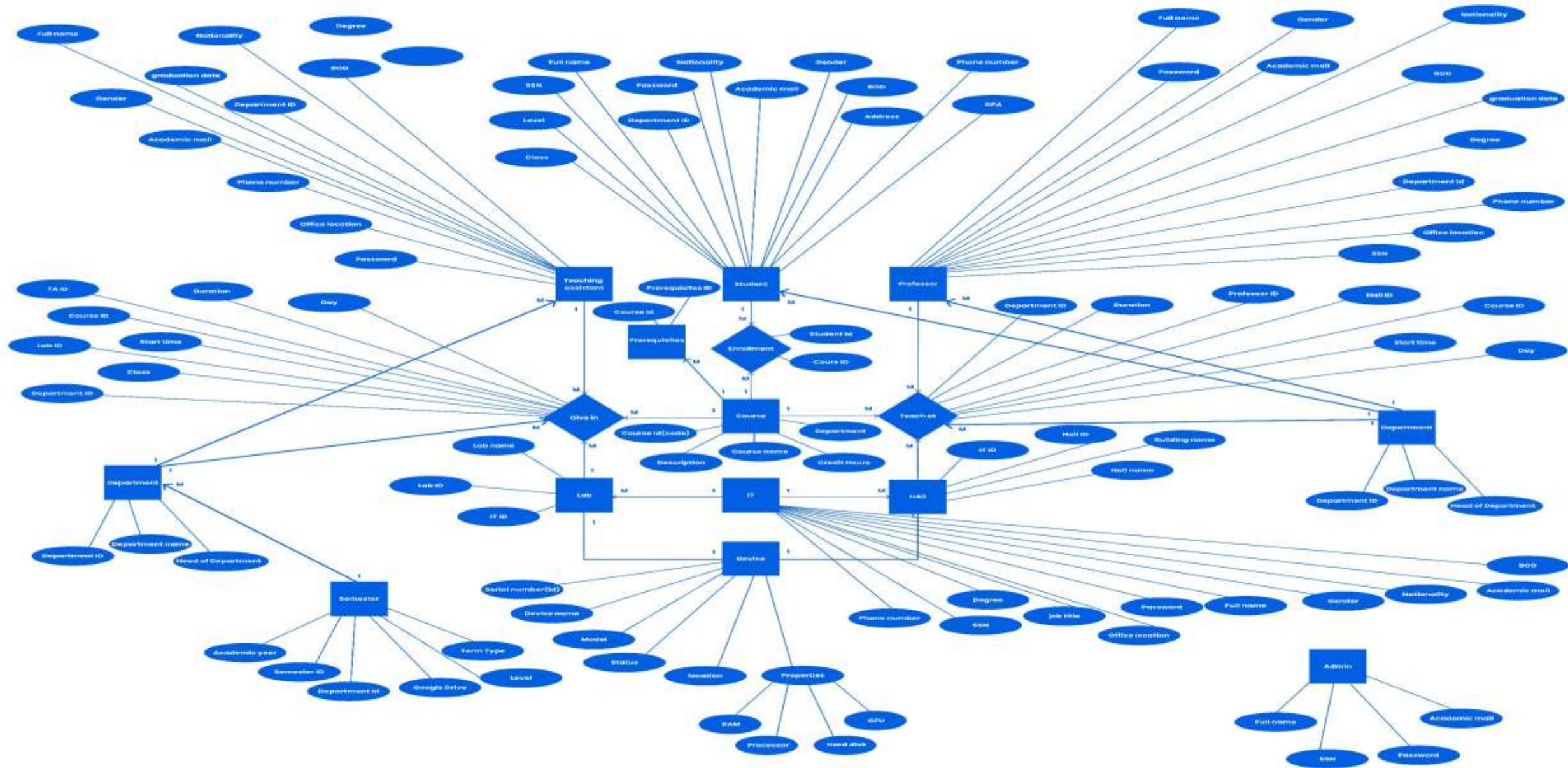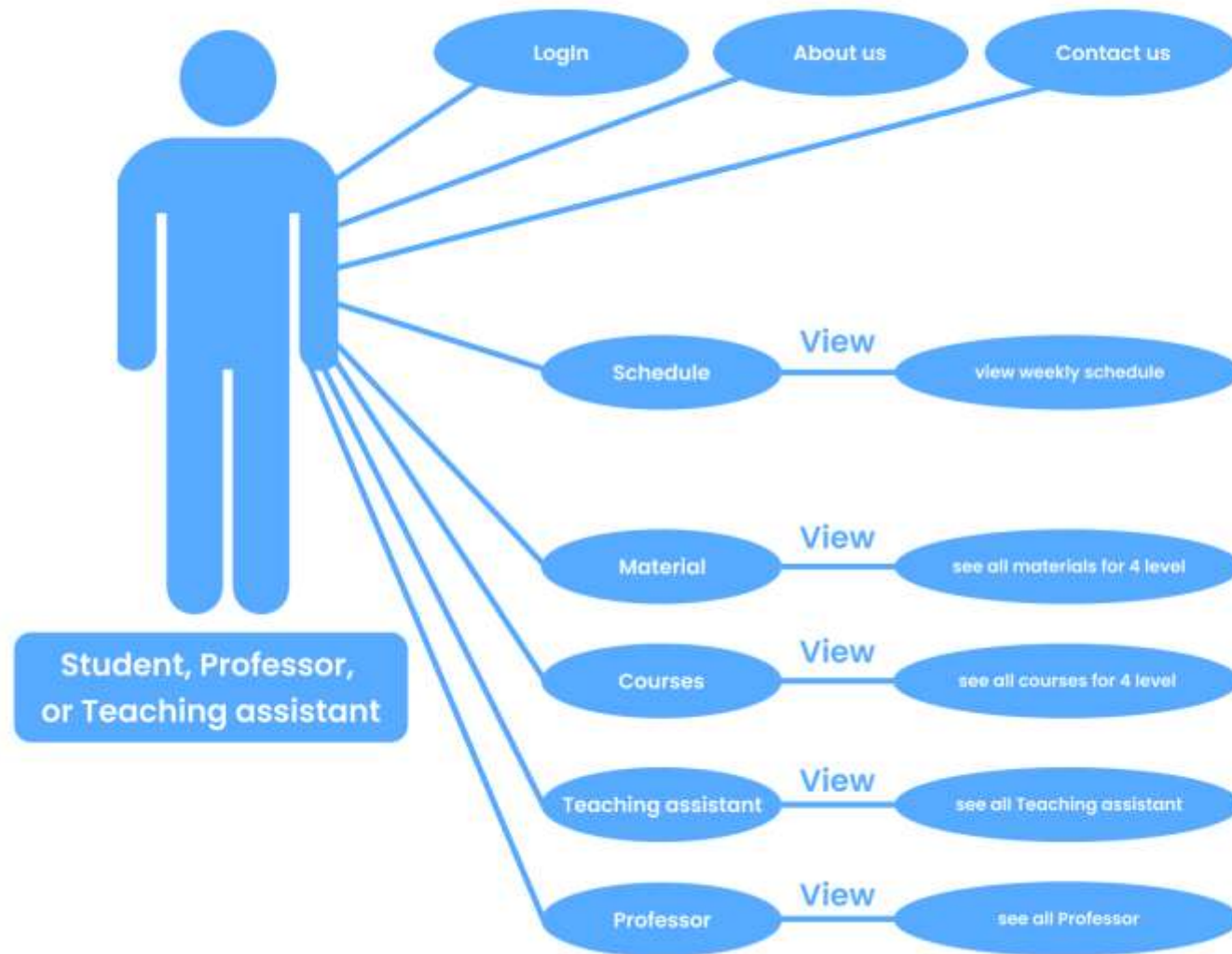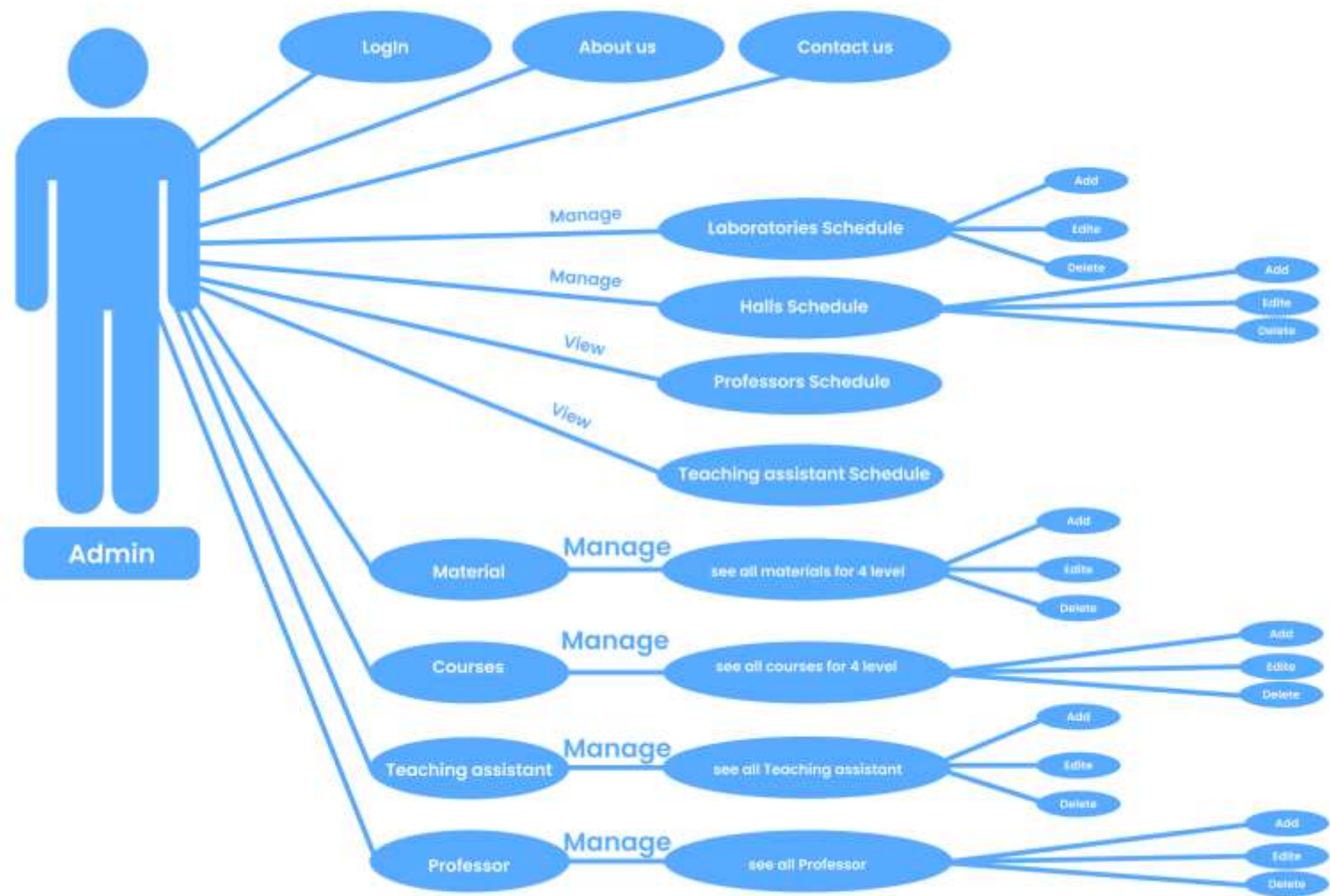
View schedule for users.

Use case name	View schedule for users.	
Goal	View student, professor, or teaching assistant schedule.	
actor	Student, Professor, or Teaching assistant.	
Precondition	1-The actor has a valid national ID. 2-If the actor enters incorrect credentials, the system displays an error message, prompting the actor to enter the correct information.	
Post-condition	1-The student is successfully logged in. 2-The students have accessed and viewed their weekly timetable. 3-The student can navigate to other sections or log out.	
Main flow	Step	Action
	1	Users select schedule button.
	2	System receives request.
	3	System gets all dates of sessions and their details from database.
	4	View all dates of lectures or sessions and their details for the current user.

View schedule for users.

Student, professor, or teaching assistant	System

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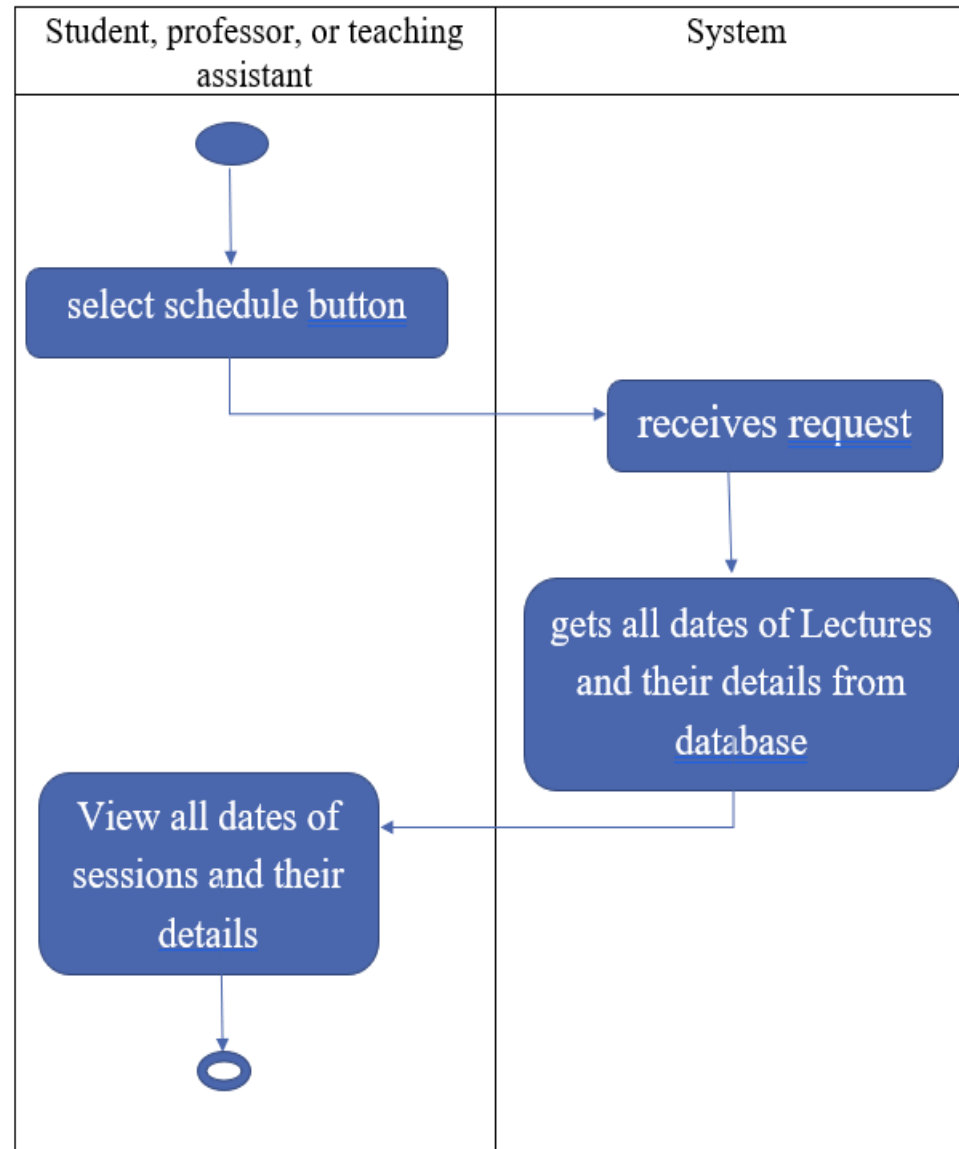
Function Seven	View student, professor, or teaching assistant schedule.
Input	National number for one module.
Processing	Retrieve all lecture details like time, day, and place from database.
Output	A view that contains schedule for the current module containing lectures details.

Product Functions

- Log In
- Contact us
- Material
- Student/professor/teaching assistant table
- Professors
- Laboratories
- Table for Laboratories schedule
- Table for Professor schedules
- Table for Teaching assistant schedules

- About us
- New Student Enrollment Application
- Courses

- Teaching assistant
- Halls
- Table for Halls schedules

User Classes and Characteristics

- Students

- Professors

- Teaching Assistants

- IT Technicians

- Administrators

Thank you