

Database Management Systems

Project

Team Number: #4

Team members:

- 1- Fatma Mohamed
- 2- Hassan Ahmed
- 3- Omar Ahmed
- 4- Raed Asham

Users Functionality and Privileges:

a. Student:

- 1- Register & Login / Logout
- 2- Profile Management & stats
- 3- Have a sketch showing the location of rooms
- 4- Can search for a room
- 5- Report any challenges or any malfunctioning in the room. The report should be (delivered / in progress/ solved)
- 6- Have a monthly quota of 3 hours, If the student is a jta, his quota increases 10 hours.
- 7- If wants to book a room for a clinic, the doctor of the course should approve, and the TA be notified
- 8- See a table of locations of the courses he registered in

b. Professor:

- 1- Register & Login / Logout
- 2- Profile Management & stats
- 3- Have a sketch showing the location of rooms
- 4- Can search for a room
- 5- Can book a room with unlimited access
- 6- Report any challenges or any malfunctioning in the room. The report should be (delivered / in progress/ solved)
- 7- Request a room change from the Rooms Services Team, for lectures and tutorials
- 8- See a table of locations of the courses he registered in

c. TA:

- 1- Register & Login / Logout
- 2- Profile Management & stats
- 3- Have a sketch showing the location of rooms
- 4- Can search for a room
- 5- Have a monthly quota of 20 hours, excluding the tutorials.

- 6- May request more hours
- 7- Report any challenges or any malfunctioning in the room. The report should be (delivered / in progress/ solved)
- 8- Request a room change from the registrar, for tutorials only
- 9- See a table of locations of the courses he registered in

d. Room services team:

- 1- Register & Login / Logout
- 2- Profile Management & stats
- 3- Have a sketch showing the location of rooms
- 4- Can search for a room
- 5- Receives the complaints or any inquires. and handles them.
- 6- Approves requests (extending quota or room booking)
- 7- Gives feedback to the cleaning staff, on rooms hygiene. (sees the rooms that has been cleaned)
- 8- If a room needs special cleaning, they may report it to the cleaning staff and follow the process. The report should be (delivered / in progress/ solved). The room should be closed for any booking
- 9- May close a room till a problem is resolved. Electrical hazard or whatsoever

e. Cleaning staff:

- 1- Register & Login / Logout
- 2- Profile Management & stats
- 3- Have a sketch showing the location of rooms
- 4- Can search for a room, the result may appear as a colored square
- 5- Receives the feedback from the Room services team
- 6- Receives the reports from the Room services team. The room may be available again only after the cleaning
- 7- Check the room that has been cleaned
- 8- Request hygiene supplies from the Room services team

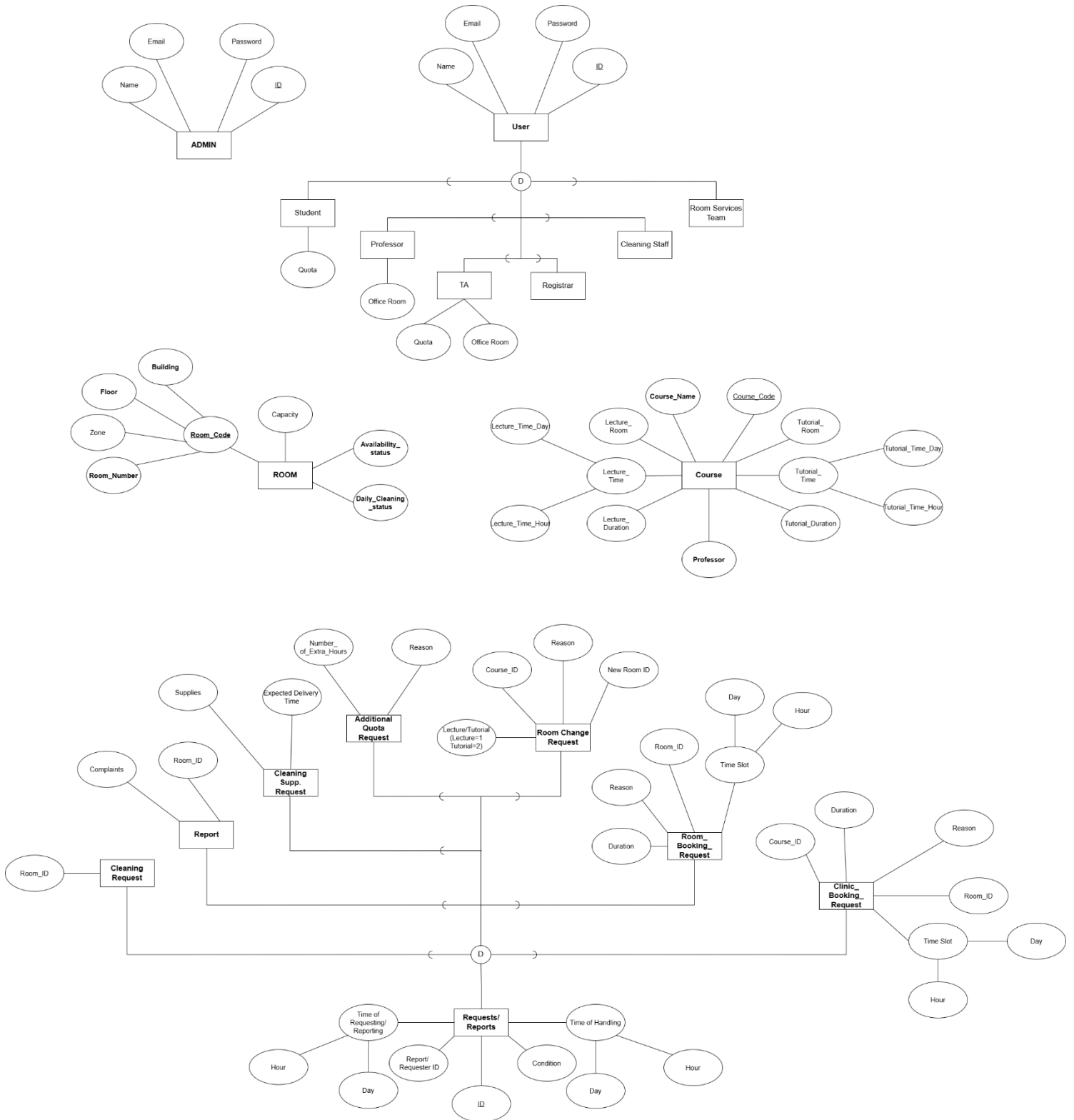
- f. registrar:
 - 1- Register & Login / Logout
 - 2- Profile Management & stats
 - 3- Create courses that have professors, TAs, JTAs, and students.

- g. Admin:
 - 1- Create & Manage User Accounts
 - 2- Assign & Modify Permissions
 - 3- See overall stats. Number of reports and request handled, and so on

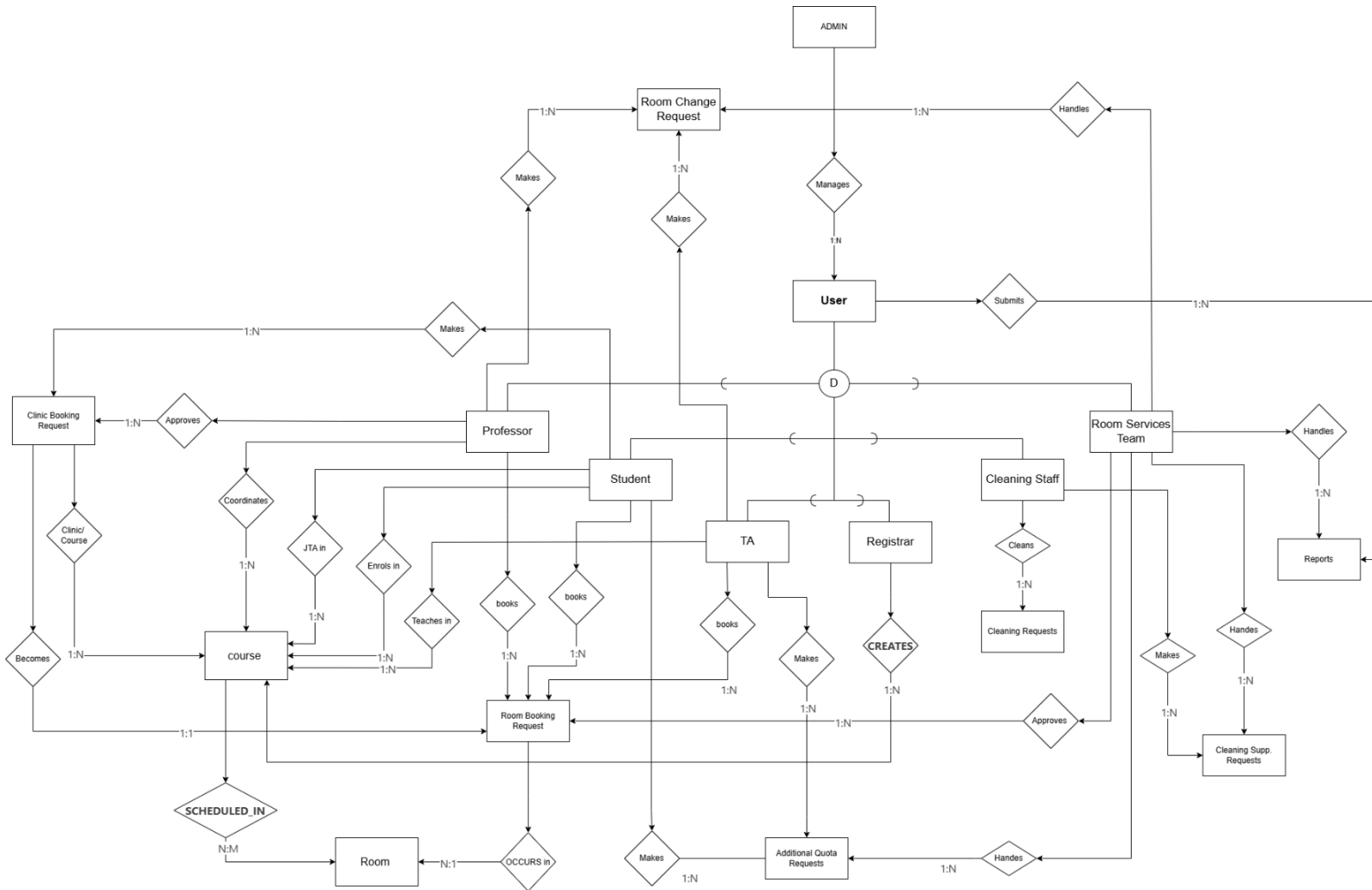
Entities:

- 1. Student
- 2. Professor
- 3. TA
- 4. Course
- 5. Room
- 6. Admin
- 7. Cleaning staff member
- 8. Registrar member
- 9. Rooms Services Team
- 10. Change Room Request
- 11. Additional Quota Request
- 12. Cleaning Request
- 13. Room Change Request
- 14. Room Booking Request
- 15. Clinic Booking Request
- 16. Report
- 17. Cleaning Supp. Request

Entity Diagram



Relationship Diagram



GUI Wireframe

All Users

Student

TA

Professor

Registrar

Admin

Cleaning Staff

Room Services Team

Database Schema

