



Cairo University



# Database

## Phase 1

### TEAM Members

20240831

Malak Mohamed Refaat

20231208

Youssef Ahmed Mahmoud  
Elebiary

20231109

Aly El-Deen Yasser Aly

20230280

Fatema El-Zhraa Ahmed  
Mohamed El-Fiky

20230632

Rana Tarek Ahmed Fouad

20230449

Noura Yasser Mohamed

May 2025

# Functional Requirements :

- Signing up a new user (e.g. instructor, student)
- Updating a user details
- Adding/updating a course (by instructor)
- Adding exam for each course (by instructor)
- Showing a list of courses that satisfy certain criteria (e.g. course category, semester, studying year...)
- Showing a list of students that satisfy certain criteria (e.g. registered in a course, get a specific grade, passed a specific exam...)
- Performing operations on courses: apply and save (by student)
- Performing operations on courses: hide (by instructor)
- Get the course with the highest number of registered students
- The courses that are not assigned to the current semester
- Get the top five students for each course in a specific year
- Get the category with the least number of students
- Get the names of registered students in a specific course who didn't apply for any exam yet.
- Get a report of each course with its name, number of exams, and the highest grade for.

# ERD conceptual:

