Database Management Systems

Section-5 Group-03
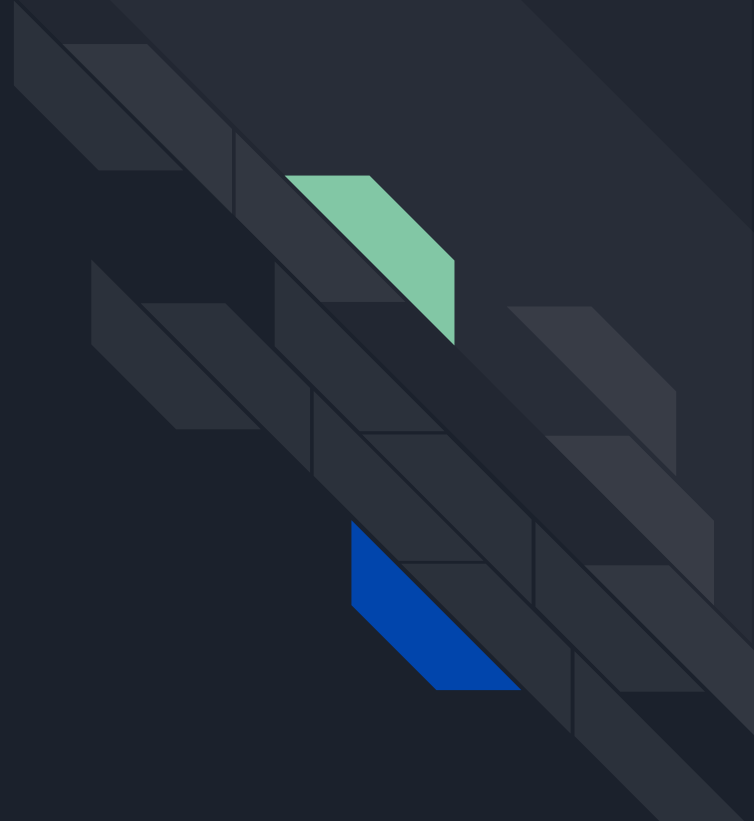
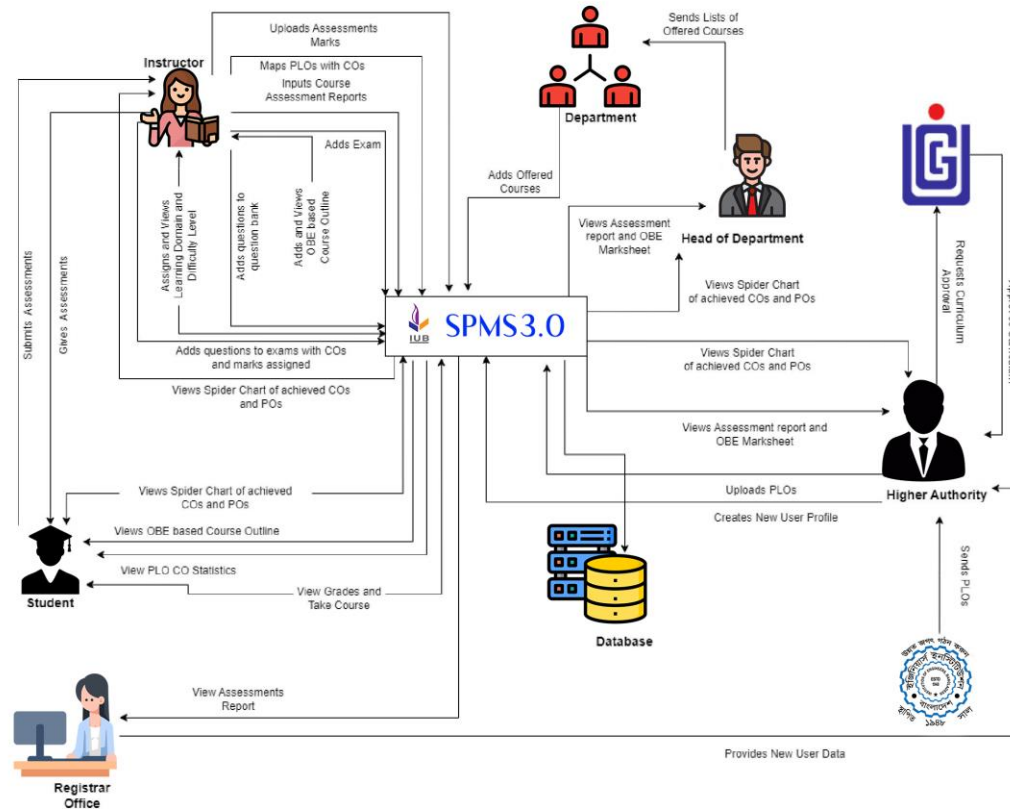# CSE303, Section-5
Group-03

Group Members:

- ❖ KM Shaide Afride - 2021211
- ❖ Farhan Zaman Hamim - 2022157
- ❖ Saniul Islam Sani - 2022605
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- ❖ Md. Ashaduzzaman Nur- 1910397
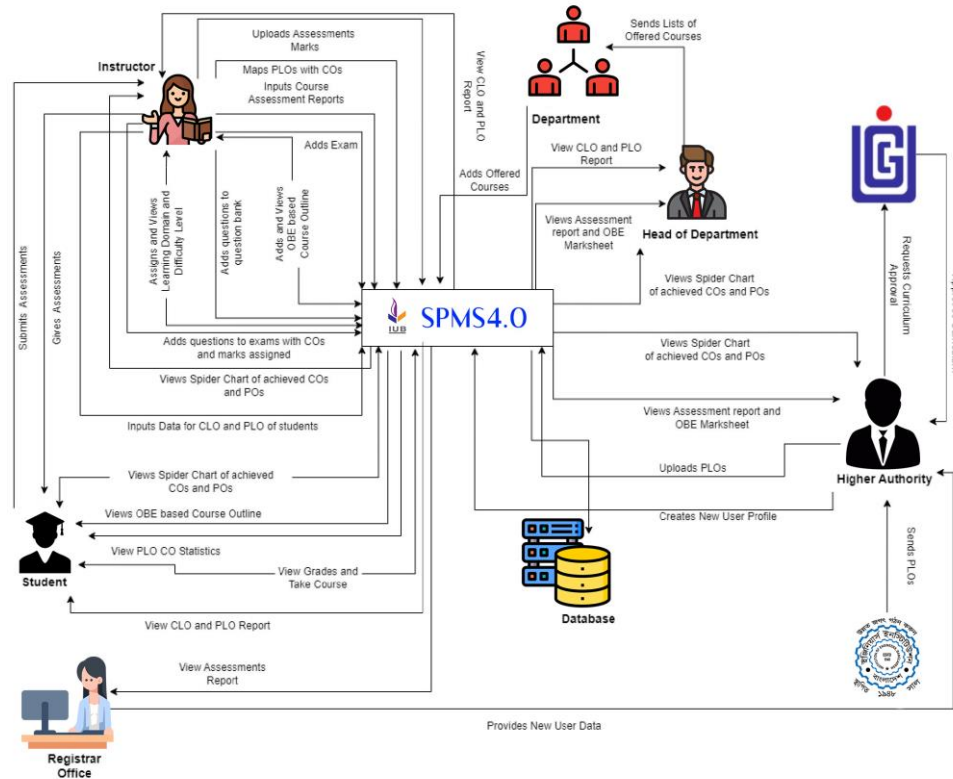- ❖ Md. Omar Bin Sarwar-2021237

OBJECTIVE OF THE PROJECT

- Assists educational institutions in tracking performance of students, teachers, departments, schools, and programs

- Keeps data on assessments, course outlines, and grades in a database for analysis

- Analyzes student learning objectives to identify areas for improvement and track performance

- Provides reports to higher authorities to improve educational quality and make informed decisions

Rich Picture (As-Is)

Rich Picture (To-Be)

Six Elements Analysis (As-Is)

Collection of manual :

- ❖ BAETE provides manual.
- ❖ Admin provides the manual to higher authorities for initial mapping

Mapping of COs and PLOs:

- ❖ Higher Authorities : Matchs COs with PLOs, maps the course and provides the map
- ❖ Faculties : Receives the map and updates COs and PLOs

Six Elements Analysis (As-Is)

Faculty creates course outline and assessment plan

- ❖ Gathers data from web
- ❖ Determines course contents according to CO and PLOs
- ❖ Fulfill COs and PLOs
- ❖ Creates questions according to Bloom Taxonomy
- ❖ Provides policies
- ❖ Compiles all
- ❖ Generate pdf format course outline

Six Elements Analysis (As-Is)

Faculty makes question paper for assessment

❖ Makes question paper
❖ Researches to make appropriate question paper
❖ Sets mark according to COs
❖ Takes assessment

Faculty takes attendance

❖ Takes attendance manually

Six Elements Analysis (To-Be)

Faculty checks scripts and grades them

❖ Upload marks
❖ Grades them

Grade sheet

❖ Input marks in manual form
❖ Upload csv file
❖ Store database
❖ Submits them

Six Elements Analysis (To-Be)

Course Outcome Percentage Calculation

- New feature implemented in web application

- Calculates course outcome percentage based on obtained grades for each course

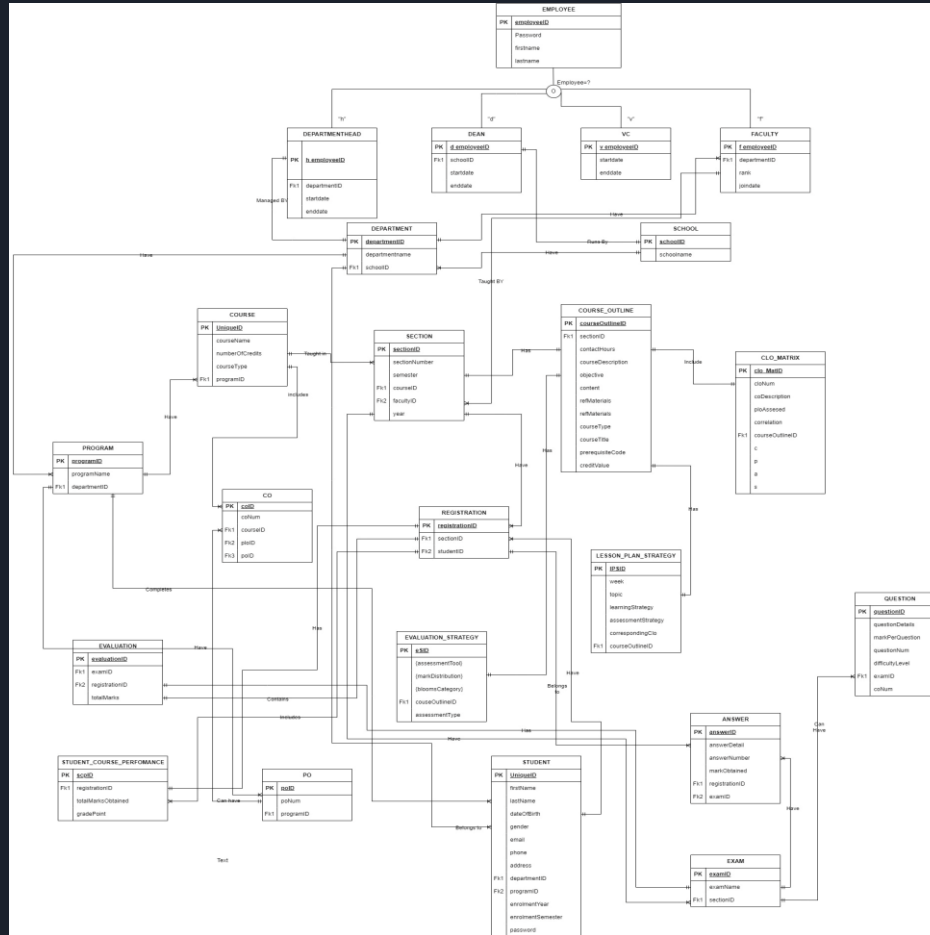- Displayed to students and faculty members in the web application.

Problem Analysis

Submission in OBE of course outline

❖ Problem : Higher authorities provide the course guidelines and then faculty can update
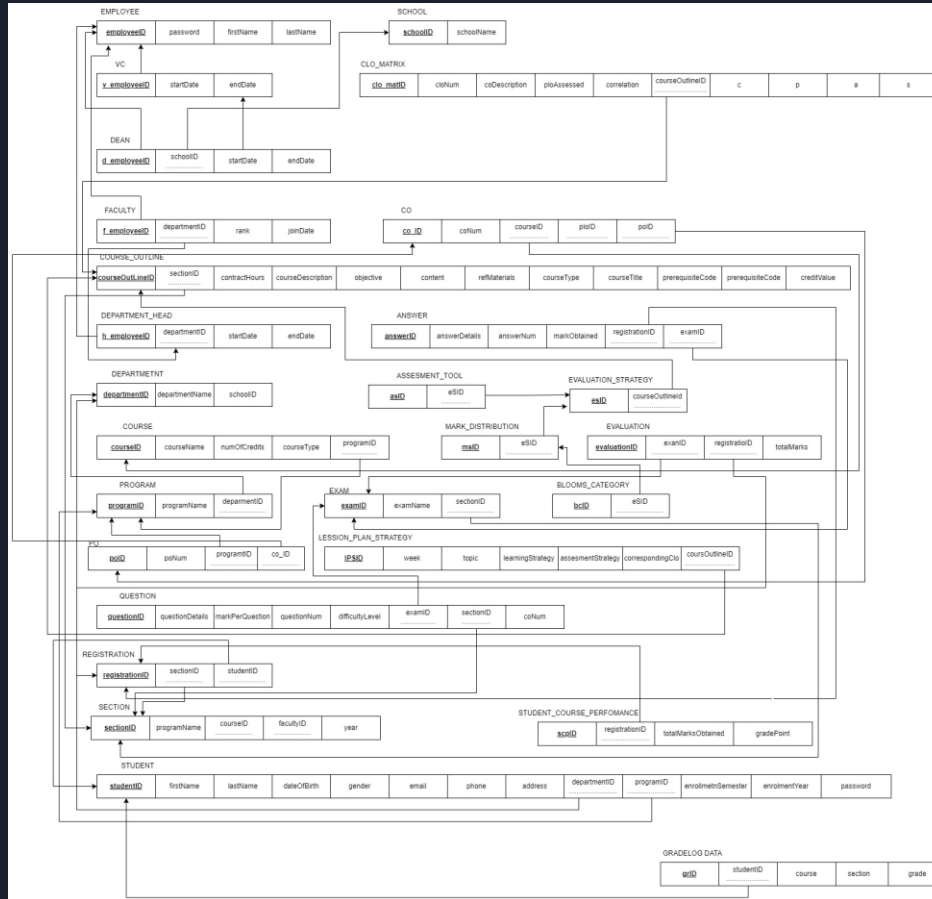❖ Solution : Elimination of higher authorities and giving direct access to faculty members

Grade Sheet Generator

❖ Problem : Input is manually taken so typing error is possible , no automated reports to generate specific feedbacks
❖ Solution : A system where it can automatically calculate average for exams

Design : Entity Relationship Diagram

Design : Relational Schema

Future Scope

- -Future plan for SPMS 4.0 includes integration with other educational technology platforms

- - Goal is to improve accuracy and effectiveness of outcome-based education frameworks

- - Enhance user experience while complying with ethical standards and regulations.

Thank You