

University Management System

Database Design - For ACU

The project is the practical assignment for (SWE301 Database I) course in Ahram Canadian University (ACU)
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Intro

UNIVERSITY MANAGEMENT SYSTEM deals with the maintenance of university, college, faculty, student information within the university. This project of UMS involved the automation of student information that can be implemented in different college managements.

The project deals with the retrieval of information through an interface or campus-wide portal using a database. It collects related information from all the departments of an organization and maintains files, which are used to generate reports in various forms to measure the individual and overall performance of the students.

PROBLEMS IN THE EXISTING SYSTEM:

Storing and accessing the data in the form of Excel sheets and account books is tedious work. It requires a lot of laborious work. It may often yield undesired results. Maintaining these records as piles may turn out to be a costlier task than any other of the colleges and institutions.

PROPOSED SYSTEM:

UMS (UNIVERSITY MANAGEMENT SYSTEM) makes management get the most updated information always by avoiding manual accounting processes.

ROLES AND RESPONSIBILITIES:

ACTORS:

There are various roles played by different people:-

a) Student:

The person who uses the application to interact with the university and associated employees, assess his/her career opportunities through application portal search & also get professional counseling from experienced advisors. It is instructed by instructors by taking sections under various courses offered by the university. It maintains attendance, undertakes an examination, and passes courses while submitting assignments and minimum grades.

b) Instructor:

The person who teaches students and is employed under a department works under administrative supervision and works for student welfare.

c) Treasurer:

The person who supervises the fiscal matter of the university employees and student, responsible for the generation of bills and remitting salary on monthly basis. It also keeps an eye on the dues of students

d) Registrar:

The person who maintains student details be it demographic or academic details. It also keeps a record of employee and administration staff. It also maintains a backup of the data in case it is lost. It is also responsible for updating the grades and marks of students in accordance with his registered courses.

e) Librarian:

The person who maintains the library, purchases books to serve as reference material for the students as well as instructors, maintains the number of books as per the need and demand. It maintains a record of people who issues

books and update the status of availability for the convenience of students which can be accessed through an online portal.

f) Administrator:

An employee at a senior level and position, experienced, and responsible for running the department for which he is accounted for. He can view the employee details of his department working under him

g) ISSI staff:

Maintains the international status of students coming abroad for studies and records of their required documents.

h) University Health and Counsel Services (UHCS) staff:

An employee who maintains the record of insurance taken by students in case of availing health services. i) Advisor: A person who provide guidance and monitors the student's term at the university.

USE CASES:









