# Project proposal
# Campus Management System



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# INTRODUCTION

The Campus management system **serves as a measure for comparative analysis of various aspects such as academic learning outcomes, teaching faculty and management decisions, etc**. This factor can help assess the difference between previous and current performance.

It deals with all kind of student details, course detail and much more.

# Entity Description

We use the following the required entities:

- Campus
- Student
- Teacher
- Student account
- Course
- Department
- Library
- Cafe
- Hostel
- Transport

# Entities Attribute

## Campus

- uni_code (varchar(20) PK)
- Name (varchar(40))
- City (varchar(40))
- Country (varchar(40))
- Description (varchar(200))

- Website (varchar(200))

# Student:

- std_id (varchar(10) PK)
- std_email (varchar(20)
- scho_id (varchar(10))
- std_name (varchar(50))
- CNIC (int)
- address (varchar(100))
- d_num (int)
- hos_name (varchar(10))
- cor_id (varchar(10))
- GPA (float)

# Student Account

- Email (varchar(50) PK)
- Password (varchar(15))
- Security_quest (varchar(50))
- Security_ans (varchar(50))
- Std_id (int)

# Teacher:

- teach_id (varchar(10) PK)
- teacher_name ((varchar(20)))
- teacher_email (varchar(20)
- CNIC  (int)
- Address (varchar(30))
- Scale (int)
- Experience (int)

# Courses:

- cor_id (varchar(10) PK)
- cor_Name (varchar(20))
- credit_hr (int)
- cor_teacher (varchar(20))
- std_id (varchar(10))

# Department:

- d_Number (int PK)
- d_Name   (varchar(20))
- HOD (varchar(20))
- teach_id (varchar(10))
- std_id  (varchar(10) PK)

# Library:

- lib_id (varchar(10) PK)
- librain_name (varchar(20))
- lib_location (varchar(30))
- facilities (varchar(20))
- book_col (varchar(20))

# Cafe:

- cafe_branch (varchar(10) PK)
- cafe_location (varchar(30))
- Available_food (varchar(50))
- Price (int)

# Hostel:

- hos_name  (varchar(5) PK)
- wardan_name (varchar(20))
- Total rooms  (int)
- Location ((varchar(50))
- Girls/boys/staff  ((varchar(50))

# Transport:

- Bus_Num  (varchar(10) PK)
- Driver_Num  (int)
- Route (varchar(40))
- Driver (varchar(20))

# Relationship between Entities

- **Student to Department**

    Many to One

- **Student to Course**

    Many to Many

- **Student to Teacher**

    Many to Many

- **Student to Transport**

    Many to One

- **Student to Hostel**

Many to One

- **Student to Cafe**

  Simple

- **Course to Teacher**

  Many to one

- **Department to Teacher**

  Many to Many

- **Department to Course**

  Many to Many

- **Faculty to Hostel**

  Many to one

- **Faculty to Transport**

  Many to one