**Project proposal**

**Campus Management System**



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Submitted To:

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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