

# **UNIVERSITY OF SWAT**

**Main Campus  
charbagh**



**DEPARTMENT OF COMPUTER SCIENCE  
3<sup>RD</sup> SEMSTER**

**DATABSE ENTITIES FOR UNIVERSITY  
CONTENT MANAGEMENT SYSTEM**

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## Entities:

### User:

All the user related data will reside in user entity.

### Attributes:

id (int) Autoincremented

name (char) 55

email (char) 55

password (char) 80

enable/disable (Boolean)

type (char) 55

std\_id (foreign key)

faculty\_id (foreign key)

### Relations:

There will be one to many relation b/w User and Student and also one to many relation b/w User and Faculty.

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## Student:

All the student related data will reside in student entity.

## Attributes:

id (int) Autoincremented

father\_name (char) 55

roll\_no (char) 55

batch (char) 55

semester (char) 80

address (char) 255

phone\_number (char) 55

cnic (char) 55

dep\_id (foriengn key)

## Relations:

There will be one to many relationship b/w **Student** and **Department**.

## Faculty:

All the faculty related data will reside in faculty entity.

## Attributes:

id (int) Autoincremented

type(char)

position (char) 55

discipline (char) 80

address (char) 255

phone\_number (char) 55

qualification\_id (foreign key)

## Relations:

There will be one to many relationship b/w **Faculty** and **qualification**.

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## **Qualification:**

The qualification of faculty will reside in qualification entity.

## **Attributes:**

id (int) Autoincremented

BS (char) 55

MS (char) 55

Phd (char) 55

## Department:

All the departement related data will reside in departement entity.

## Attributes:

id (int) Autoincremented

name (char) 155

email (char) 55

category (char) 55

chairman (char) 55

campus (char) 255

location (char) 55

phone\_number (int) 25

location (char) 55

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## Courses:

All the courses related data will reside in courses entity.

## Attributes:

id (int) Autoincremented

name (char) 55

code (char) 55

cr\_hr (char) 55

department\_id (foreign key)

## Relations:

There will be one to many relationship b/w **Courses** and **Department**.

## **CourseStdLinker:**

This entity will link course and student entities and will create many to many relationship b/w course and student entities.

### **Attributes:**

id (int) Autoincremented

course\_id (int)

student\_id (int)

## **CourseFacultyLinker:**

This entity will link course and faculty entities and will create many to many relationship b/w them.

### **Attributes:**

id (int) Autoincremented

course\_id (int)

faculty\_id (int)