

Chapter 3

SYSTEM DESIGN

Front End Design

Admin Login page

Step 1: Enter username and password

Step 2: On successful login go to student entry page.

Step 3: If not successful stay in login page

Enter Student Details

Student entry page will have text fields to be filled by the admin with their description mentioned such as student's university seat number, first name, last name, college, course, contact number and section.

Enter Marks

Enter marks has few dropdown menus to choose grade, semester, eligibility and rest text fields to fill details such as subject code and internal and external marks along with credit points earned.

View Result

View result page has a dropdown menu that allows the student to choose the semester and a text field to enter university seat number.

Logout

After every successful insertion the option to logout as admin is provided and the user will be taken back to introduction screen.

3.1 Table Description

There are 4 tables implemented in this project. The tables are:

- ❖ **STUDENT:** Stores details of students in the table. Primary key is usn and foreign key is course_id.

Table 3.1 Student table

```
mysql> desc student;
```

Field	Type	Null	Key	Default	Extra
usn	varchar(10)	NO	PRI	NULL	
fname	varchar(30)	YES		NULL	
lname	varchar(30)	YES		NULL	
college	varchar(45)	YES		NULL	
course_id	varchar(3)	YES	MUL	NULL	
section	varchar(1)	YES		NULL	
contact	varchar(10)	YES		NULL	

7 rows in set (0.00 sec)

- ❖ **COURSE:** Stores Information about courses offered in different semester along with their maximum intake capacity and name of hod .Primary key is course_id and sections column is virtually generated.

Table 3.2 Course table

```
mysql> desc course;
```

Field	Type	Null	Key	Default	Extra
course_id	varchar(3)	NO	PRI	NULL	
course_name	varchar(45)	YES		NULL	
course_seat	int(11)	YES		NULL	
course_hod	varchar(45)	YES		NULL	
sections	int(11)	YES		NULL	VIRTUAL GENERATED

5 rows in set (0.00 sec)

- ❖ **SUBJECT:** Stores Information about course subjects with name and subject code offered in different semesters along with their credit values. Primary keys are sub_code and course_id. Foreign key is course_id.

Table 3.3 Subject table

```
mysql> desc subject;
```

Field	Type	Null	Key	Default	Extra
sub_code	varchar(8)	NO	PRI	NULL	
sub_name	varchar(45)	YES		NULL	
course_id	varchar(3)	NO	PRI	NULL	
sem	int(11)	YES		NULL	
credits	int(11)	YES		NULL	

5 rows in set (0.01 sec)

- ❖ **RESULT:** Stores student results according to the marks obtained in both internal and external along with the eligibility status in the particular subject. Primary keys are usn and sub_code. Foreign keys are usn, sub_code and course_id.

Table 3.4 Result table

```
mysql> desc result;
```

Field	Type	Null	Key	Default	Extra
usn	varchar(10)	NO	PRI	NULL	
sub_code	varchar(8)	NO	PRI	NULL	
course_id	varchar(8)	YES	MUL	NULL	
internal	int(11)	YES		NULL	
external	int(11)	YES		NULL	
grade_letter	varchar(2)	YES		NULL	
grade_point	int(11)	YES		NULL	
status	varchar(1)	YES		NULL	
sem	int(11)	YES		NULL	

9 rows in set (0.00 sec)