**Database Management System (CS-204)**

**Second Progress Report**

                                                           April 30, 2020

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In this 2 week we have research related to our and project and started our project with design of database but as we moved further we faced problem in designing of our database that how we should calculate the attendance of individual in any course as of now we find the solution but our database is not completely design. We have some of things like use of indexing and hashing is left as we will move forward and do further research; we will add that and it might happen that some of the entity can be added or removed from our database in future as the requirement happens.

Here is the MySQL code of our Database: -

*create database InstituteManagementSystem ;*

*use InstituteManagementSystem ;*

*create table Department(*

*Dept\_name char(20),*

*Budget float,*

*Building char(20),*

*primary key(Dept\_name)*

*);*

*create table Faculty(*

*Fac\_ID int(10) not null auto\_increment,*

*Name char(30) not null,*

*Designation char(30),*

*Date\_of\_Birth date,*

*Gender char,*

*check (Gender in('Male','Female')),*

*PhoneNumber int(10),*

*Email\_id varchar(30),*

*salary numeric(7,2),*

*primary key(Fac\_ID)*

*)auto\_increment=2000;*

*Alter table Faculty add Password varchar(10);*

*create table Student(*

*Stu\_id int not null auto\_increment,*

*Name char(30) not null,*

*Date\_of\_birth date,*

*Gender char,*

*check (Gender in('Male','Female')),*

*Address varchar(100),*

*PhoneNumber int(10),*

*Email\_id varchar(30),*

*Course varchar(10),*

*Curr\_sem int(1),*

*Password varchar(10),*

*primary key(stu\_id)*

*)auto\_increment=1000;*

*create table Course(*

*Course\_id varchar(10) not null,*

*Title char(20),*

*Credits int(1),*

*primary key(Course\_id)*

*);*

*create table Section(*

*Course\_id varchar(10) not null,*

*Sec\_id int(1),*

*Semester int,*

*check (Semester in('1','2','3','4','5','6','7','8')),*

*year year,*

*primary key(Course\_id,sec\_id,Semester,year),*

*foreign key (Course\_id) references Course(Course\_id)*

*);*

*create table Prereq(*

*Course\_id varchar(10),*

*prereq\_id varchar(10),*

*primary key(Course\_id,prereq\_id),*

*foreign key (Course\_id) references Course(Course\_id),*

*foreign key (prereq\_id) references Course(Course\_id)*

*);*

*create table Course\_dept(*

*Dept\_name char(20),*

*Course\_id varchar(10) unique,*

*primary key(Dept\_name,Course\_id),*

*foreign key (Course\_id) references Course(Course\_id),*

*foreign key (Dept\_name) references Department(Dept\_name)*

*);*

*create table Fac\_dept(*

*Dept\_name char(20),*

*Fac\_ID int(10) unique,*

*primary key(Dept\_name,Fac\_ID),*

*foreign key (Dept\_name) references Department(Dept\_name),*

*foreign key (Fac\_ID) references Faculty(Fac\_ID)*

*);*

*create table Stud\_dept(*

*Dept\_name char(20),*

*Stu\_id int(10) unique,*

*primary key(Dept\_name,Stu\_id),*

*foreign key (Dept\_name) references Department(Dept\_name),*

*foreign key (Stu\_id) references Student(Stu\_id)*

*);*

*create table Advisor(*

*Fac\_id int(10),*

*Stu\_id int(10) unique,*

*primary key(Fac\_id,Stu\_id),*

*foreign key (Fac\_id) references Faculty(Fac\_ID),*

*foreign key (Stu\_id) references Student(Stu\_id)*

*);*

*create table Takes(*

*Course\_id varchar(10),*

*Sec\_id int(1),*

*Semester int,*

*check (Semester in('1','2','3','4','5','6','7','8')),*

*year year,*

*Stu\_id int(10),*

*grade char(2),*

*primary key(Course\_id,sec\_id,Semester,year,stu\_id),*

*foreign key (Course\_id) references Course(Course\_id),*

*foreign key (Stu\_id) references Student(Stu\_id)*

*);*

*create table Attendence(*

*Course\_id varchar(10),*

*Sec\_id int(1),*

*Semester int,*

*check (Semester in('1','2','3','4','5','6','7','8')),*

*year year,*

*date date,*

*Status char,*

*check(Status in('P','A')),*

*Stu\_id int(10),*

*primary key(Course\_id,Sec\_id,Semester,year,Stu\_id),*

*foreign key(Course\_id) references Course(Course\_id),*

*foreign key(Stu\_id) references Student(Stu\_id)*

*);*

*create table Classroom(*

*RoomNumber varchar(3),*

*Building char(10),*

*capacity int(3),*

*primary key(RoomNumber,Building)*

*);*

*create table Sec\_class(*

*Course\_id varchar(10),*

*Sec\_id int(1),*

*Semester int,*

*check (Semester in('1','2','3','4','5','6','7','8')),*

*year year,*

*RoomNumber varchar(3),*

*Building char(10),*

*primary key(Course\_id,Sec\_id,Semester,year,RoomNumber,Building),*

*foreign key(RoomNumber) references classroom(RoomNumber),*

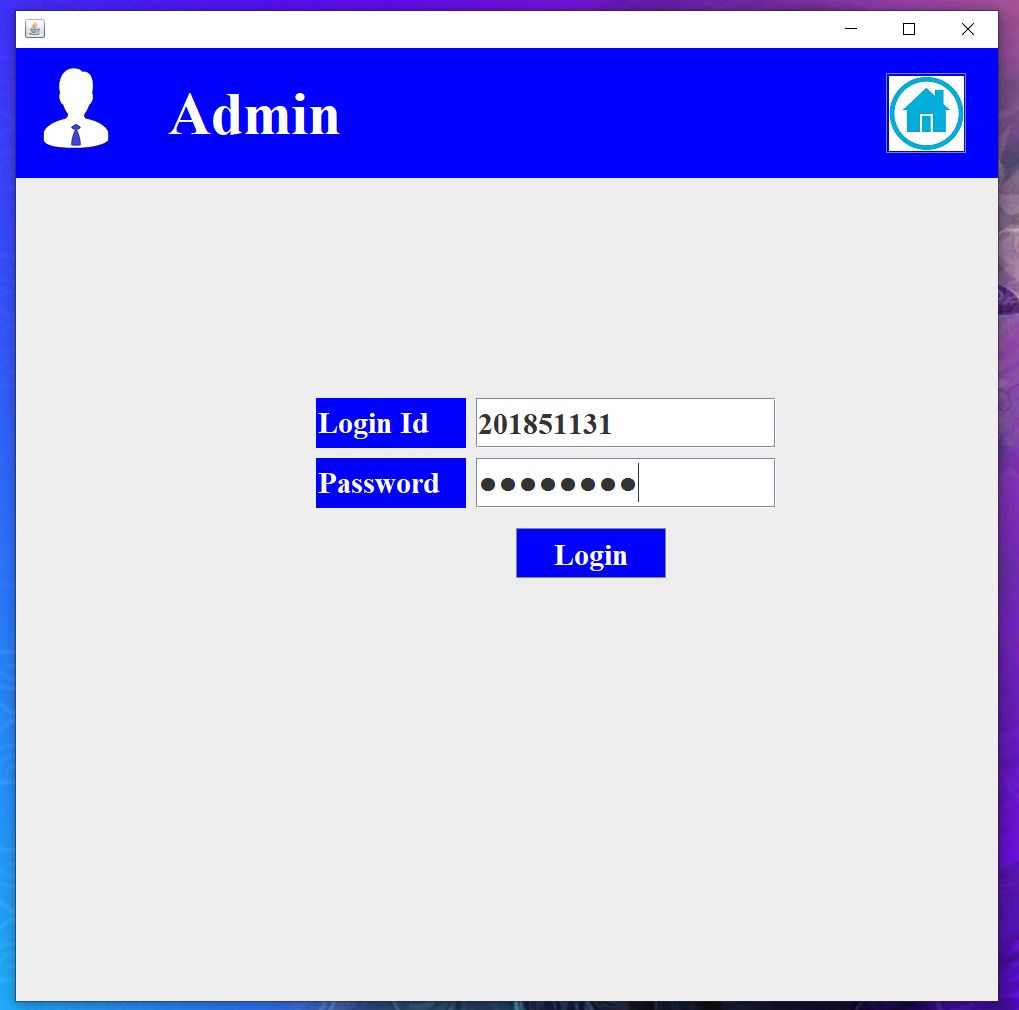
*foreign key(Course\_id) references Course(Course\_id)*

*);*

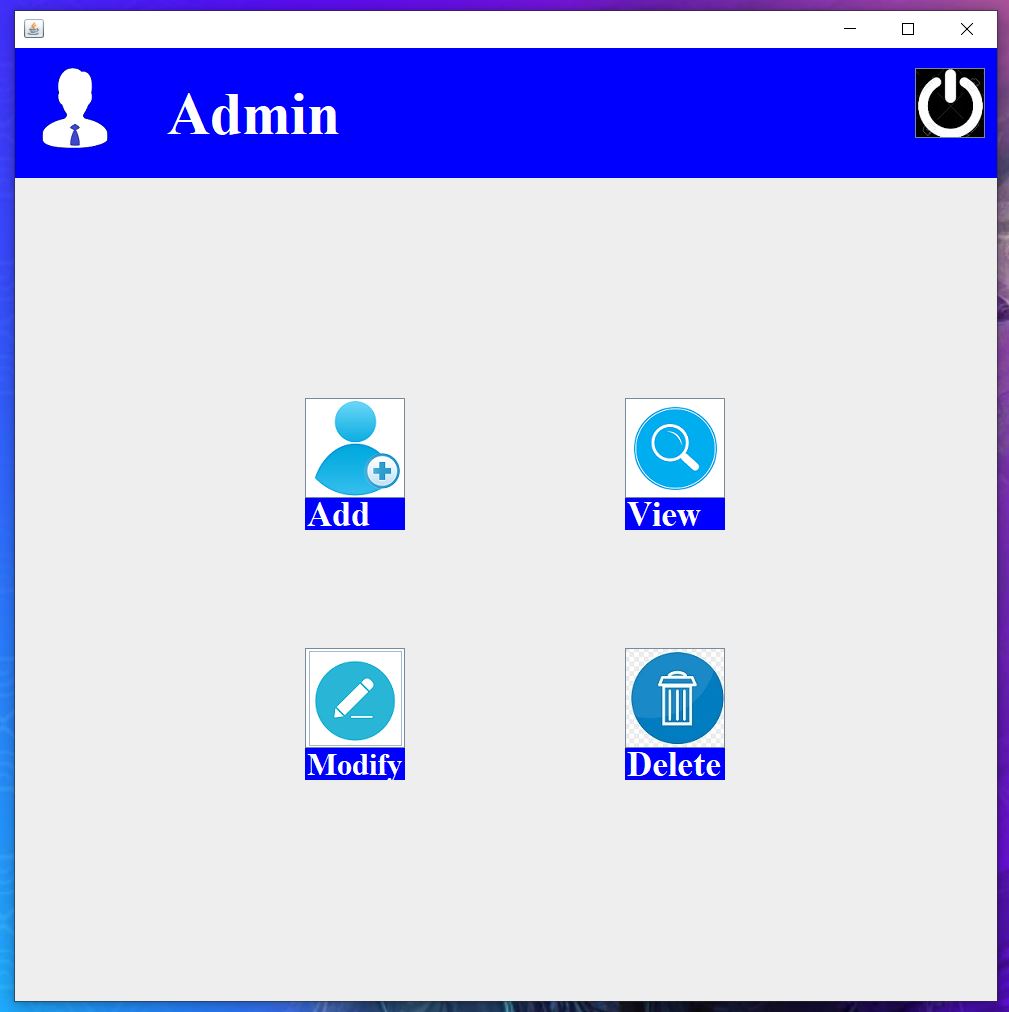
Along with our database we have worked on our frontend Design and we have done some of its work but its work is not complete. We have to add some more feature in our modules. The design which we are seeing is very basic we will add some functions and features.

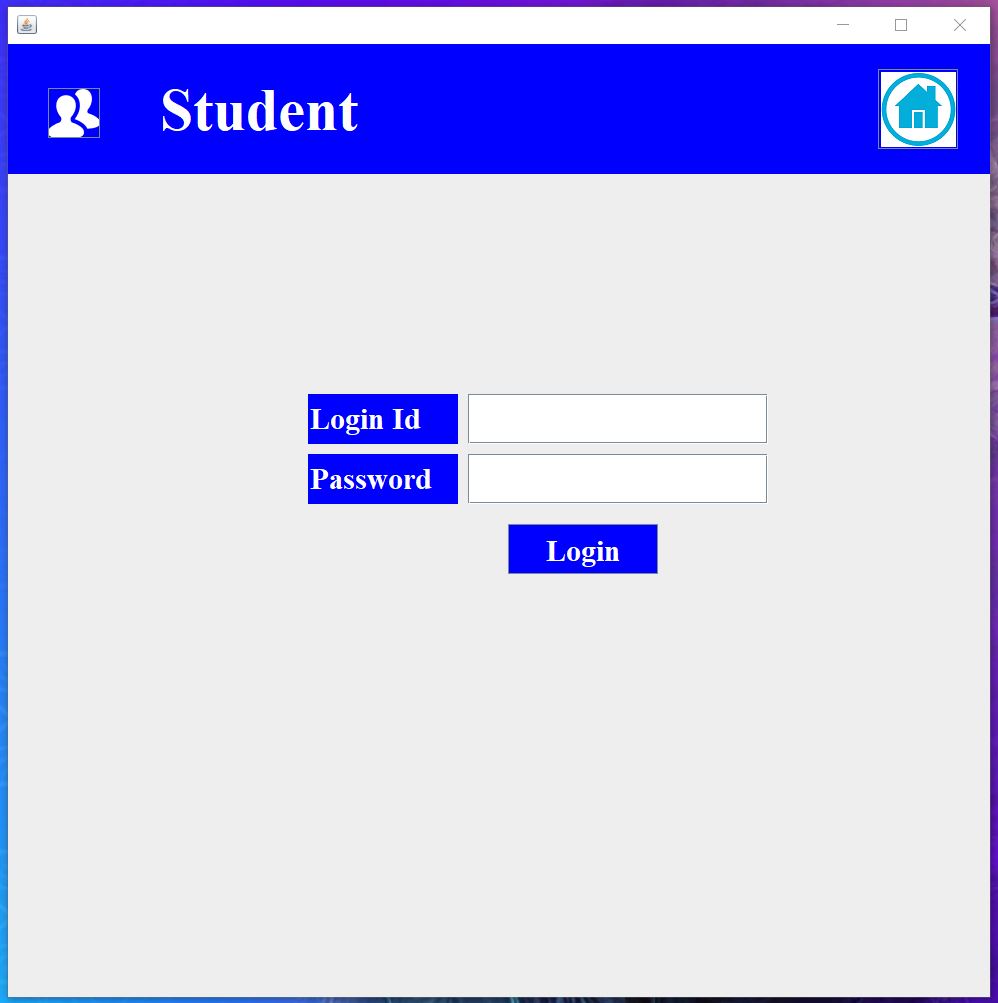
**Screenshot of Our Front Page**



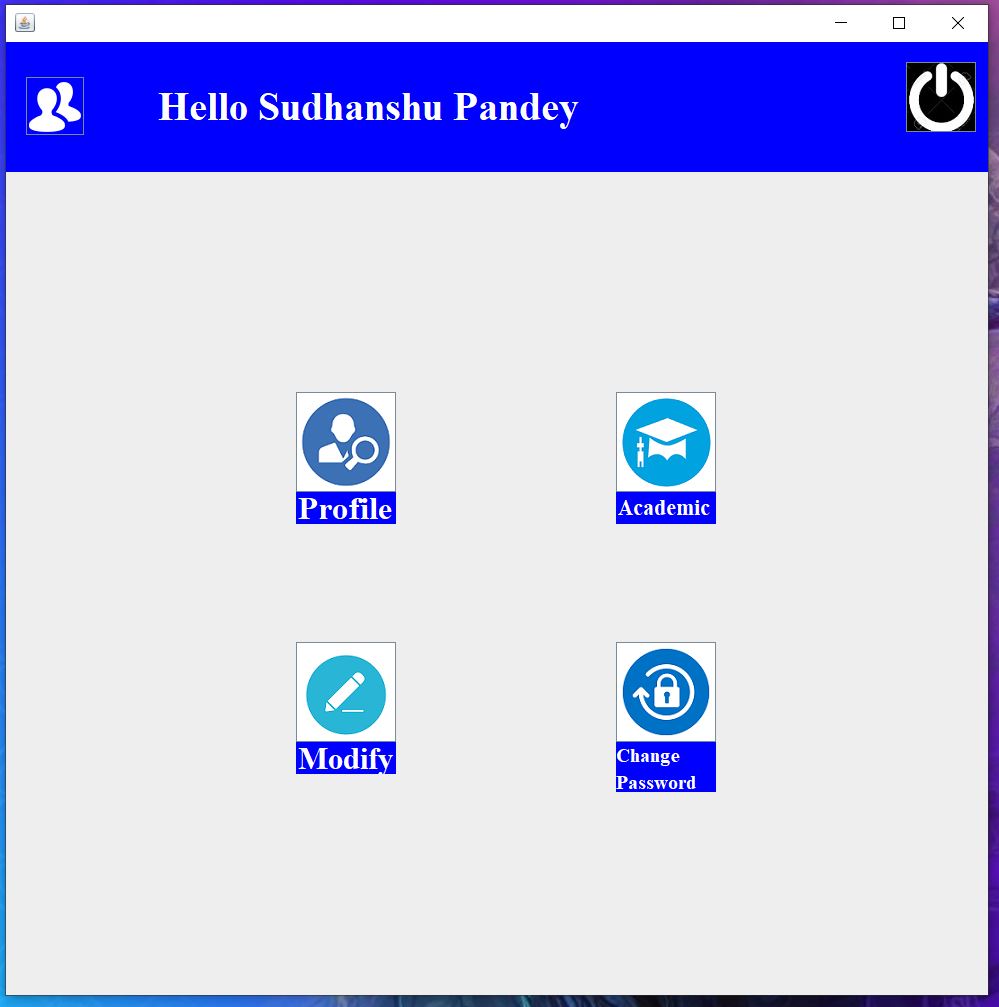
**Screenshot of Admin Login Page**

**Screenshot of Admin page**



**Screenshot of Student Login page**

**Screenshot of Student Page**



**Screenshot of Faculty LoginPage**

