MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Skill Based Mini Project Report

on

University Management System

Submitted By:

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Submitted to:

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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CERTIFICATE

This is certified that **Satendra Singh Argal** (0901CS201111) has submitted the project report titled **University Management System** under the mentorship of **Ms. Jaimala Jha**, in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

Ms. Jaimala Jha
Faculty Mentor
Assistant Professor
Computer Science and Engineering

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DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Ms. Jaimala Jha**, **Assistant Professor**, **Computer Science and engineering**

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

Satendra Singh Argal
0901CS201111
2nd Year,4th SEM
Computer Science and Engineering

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ABSTRACT

University Management System is the software which is helpful for the students as well as the officials. In the present system all the activities are done manually. This is very time consuming and expensive. Our University Management System deals with various activities related to the students.

In the software we can register as a user and there are two types of users, student and administrator. Admin has the power to add new user and can edit and delete a user. A student can register as a user and edit and delete his/her profile. Administrator can add, edit and delete marks for the student. All users can see the mark

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Chapter 1: INTRODUCTION

1.1 INTRODUCTION

The University Management System has been developed to overcome the problems prevalent in the manual system in practice, this software is supported to eliminate and, in some cases, reduce the difficulties faced by this existing system.

Every organization/university, be it big or small, has challenges to overcome and manage the information of students, faculties, registrations, courses at the management level. It is designed to assist in strategic planning and will help you ensure that your organization is equipped with the right level of information and detail for your future goals. Furthermore, for those busy executives who are always on the go, our systems come with remote access features, which will allow you to manage your workforce from anywhere, anytime. These systems will ultimately allow you to manage resources better.

1.2 PURPOSE OF THE SYSTEM

The purpose of the project on University is to manage the details of students, classes, instructors and courses. The project is built entirely on the administrative end and thus only the administrator is guaranteed access. The objective of the project is to create an application program to reduce manual work for managing students, registration and classes. It tracks all the details about the students, faculties, courses.

Chapter 2: TOOLS

2.1 Hardware Essentials

Processor: Intel Pentium or more

Ram: 512MB Ram

Hard Disk: PC with 20GB

2.2 Servers

Operating System Server: Windows 8 or later

Database Server: Microsoft SQL server

Client: Microsoft Internet Explorer

Tools: Microsoft Visual Studio.Net-2012

Chapter 3: STRUCTURE OF THE PROHECT

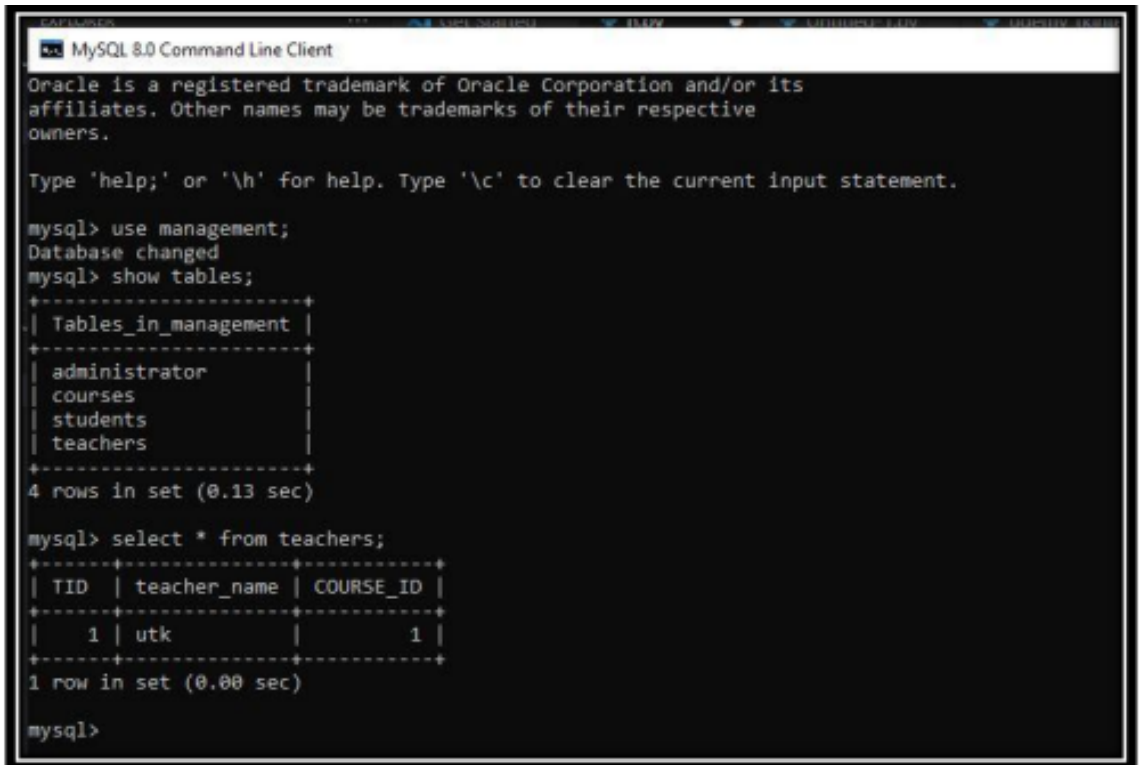
3.1 Structure of The Project

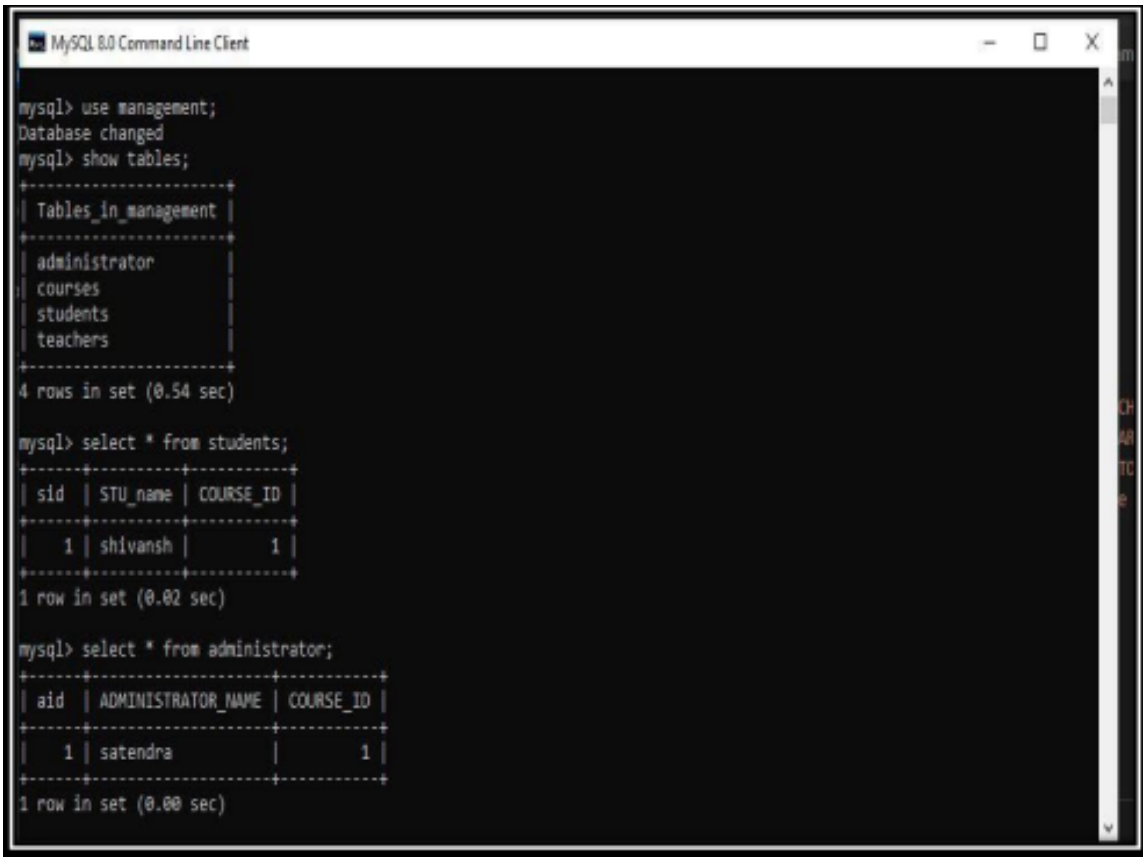
```
import mysql.connector as c


from tkinter import *

mydb =c.connect(

   host = "localhost" ,

   user = "root",

   password ="Utkarsh@1",database= "management"
    )

mycursor = mydb.cursor()

mycursor.execute("create table if not exists teachers(TID
INTEGER,
teacher_name VARCHAR(30)  , COURSE_ID integer)")

mycursor.execute("create table if not exists students(sid
integer  , STU_name VARCHAR(30),COURSE_ID integer)")

mycursor.execute("create table if not exists administrator(aid
integer , ADMINISTRATOR_NAME VARCHAR(40) , COURSE_ID integer)")

mycursor.execute("create table if not exists courses(COURSE_ID
integer , course_name VARCHAR(30))")

root = Tk()

#inp = Entry(root,width= 50)

root.geometry("800x400")

root.minsize(400,400)
root.maxsize(2000,2000)

root.title("university Database Management system")

root.iconbitmap("penguin.ico")

root.resizable(1,1)
```

```
E1 = Entry(root,width =20 )
E1.grid(row =0,column=1)

E2 = Entry(root,width =20 )
E2.grid(row =4,column=1)

E3 = Entry(root,width =20 )
E3.grid(row =8,column=1)

E4 = Entry(root,width =20 )
E4.grid(row =12,column=1)

name = E1.get()
dep = E2.get()
pid = E3.get()
cid = E4.get()

def ADD_DETAILS():

        l5 = Label(root,text ="succesfully added in database")

        l5.grid(row =  15 , column = 1,padx = 40)

def checkdep():

        val = (pid,name,c)

        sp = "INSERT INTO teachers (TID,teacher_name,COURSE_ID)

        VALUES (%s,%s,%s)"

        if dep=="teacher" :

              mycursor.execute(sp,val)

        elif dep=="student":

              mycursor.execute("INSERT INTO students

              VALUES(pid,name,cid)")

        elif dep== "administration":

              mycursor.execute("INSERT INTO administrator
```

```
                VALUES(pid,name,cid)")

l1 = Label(root, text = 'give your name ' )

l1.grid(row=0,column=0, padx = 20, pady=0  )

l2 = Label(root,text = "are you a student or teacher or
administration (write in blank space )")

l2.grid(row = 4,column =0,padx= 20 ,pady =30)

b1 = Button(root,text = "submit")
b1.grid(row = 0,column =2)

b2 = Button(root,text = "submit",command= checkdep)
b2.grid(row =4,column =2 )

l3 = Label(root, text = 'give your id (TID,SID,AID) :-' )
l3.grid(row=8,column=0, padx = 20, pady = 30)

b3 = Button(root,text = "submit")
b3.grid(row =8,column =2 )

l4 = Label(root, text = 'give your COURSE ID ' )
l4.grid(row=12,column=0, padx = 20 )

b4 = Button(root,text = "submit")
b4.grid(row = 12,column = 2)

b5 = Button(root,text="ADD DETAILS",command = ADD_DETAILS)
b5.grid(row = 14,column = 1)

root.mainloop()
```

3.2 DATABASE


MySQL 8.0 Command Line Client
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> use management;
Database changed
mysql> show tables;
+----------------------+
| Tables_in_management |
+----------------------+
| administrator |
| courses |
| students |
| teachers |
+----------------------+
4 rows in set (0.13 sec)
mysql> select * from teachers;
+------+--------------+------------+
| TID | teacher_name | COURSE_ID |
+------+--------------+------------+
| 1 | utk | 1 |
+------+--------------+------------+
1 row in set (0.00 sec)
mysql>


MySQL 8.0 Command Line Client
mysql> use management;
Database changed
mysql> show tables;
+----------------------+
| Tables_in_management |
+----------------------+
| administrator |
| courses |
| students |
| teachers |
+----------------------+
4 rows in set (0.54 sec)
mysql> select * from students;
+------+----------+-----------+
| sid | STU_name | COURSE_ID |
+------+----------+-----------+
| 1 | shivansh | 1 |
+------+----------+-----------+
1 row in set (0.02 sec)
mysql> select * from administrator;
+------+--------------------+-----------+
| aid | ADMINISTRATOR_NAME | COURSE_ID |
+------+--------------------+-----------+
| 1 | satendra | 1 |
+------+--------------------+-----------+
1 row in set (0.00 sec)

Chapter 4: CONCLUSION

4.1 Conclusion

It is a great pleasure for us to work on this exciting and challenging project. This project proved to be good for us as it not only provides practical knowledge of MySQL and to some extent Windows application and programming in SQL Server but also about all handling procedures related to "University Management System". This will provide better opportunities and guidance in developing projects independently in future.