



STUDENT MANAGEMENT SYSTEM

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ABSTRACT

Our project Student Management system includes registration of students, storing their details into the system i.e. computerized the process. In the Student Management system Project in python, we will see a project that manages all the information of the students. It includes managing data such as name, email-id, contact number, date of birth, which stream they are in, etc. we will build a GUI-based Student Management System Project using the Tkinter, Mysql, messagebox, pycharm and datetime and Ttk modules of the Tkinter library. It is an intermediate-level project, where you will learn how to use databases, and modules and make some great GUIs in Python and apply them in real life. The project file contains a python script (student.py). This is a simple console based system which is very easy to understand and use.

INTRODUCTION

This project is developed mainly to administrate student records. The purpose of the project entitled as STUDENT MANAGEMENT SYSTEM is to computerize the Front Office Management of student records in colleges, schools and coaching's, to develop software which is user friendly, simple, fast, and cost – effective. Traditionally, it was done manually. The main function of the system is to register and store student details, retrieve these details as and when required, and also to manipulate these details meaningfully. The current system in use is a paper-based system.

Characterstics

- Software provides easy management of student records.
- Software has very user friendly interface which is very easy to handle and understand.
- Software provides security to private data by hiding them.
- Software uses very less memory and takes less time to startup

WORKING ENVIRONMENT

PYTHON

Python is a widely used general-purpose, high level programming language. It was initially designed by Guido van Rossum in 1991 and developed by Python Software Foundation. It was mainly developed for emphasis on code readability, and its syntax allows programmers to express concepts in fewer lines of code

PYCHARM

PyCharm is an integrated development environment (IDE) used for programming in Python. It provides code analysis, a graphical debugger, an integrated unit tester, integration with version control systems, and supports web development with Django.

MYSQL

A relational database organizes data into one or more data tables in which data may be related to each other; these relations help structure the data. SQL is a language programmers use to create, modify and extract data from the relational database, as well as control user access to the database.

EXISTING SYSTEM

EXISTING SYSTEM

System Analysis is a detailed study of the various operations performed by a system and their relationships within and outside of the system. During analysis data collected on the various files, decision points and transactions handled by the present system. Analysis begins when a user or manager begins a study of the program using existing system.

Disadvantages

- User requirements
- Users cannot edit or modify
- Information Gathering
- Feasibility study
- Hacking

PROPOSED SYSTEM

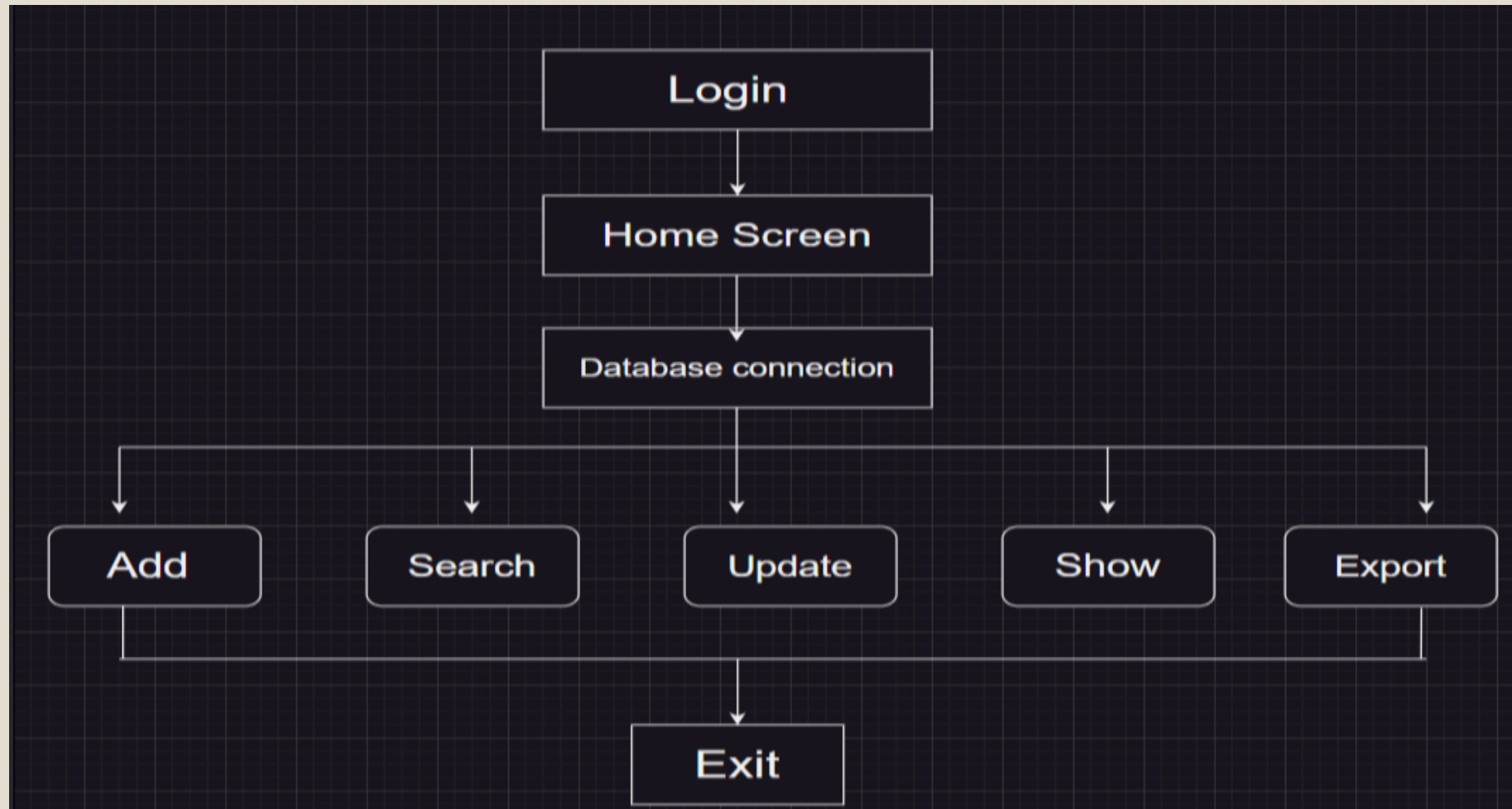
PROPOSED SYSTEM

In our proposed system we have the provision for adding the details of the students by themselves. So, the overhead of the school authorities and the teachers is become less. Another advantage of the system is that it is very easy to edit the details of the student and delete a student when it found unnecessary.

Advantages

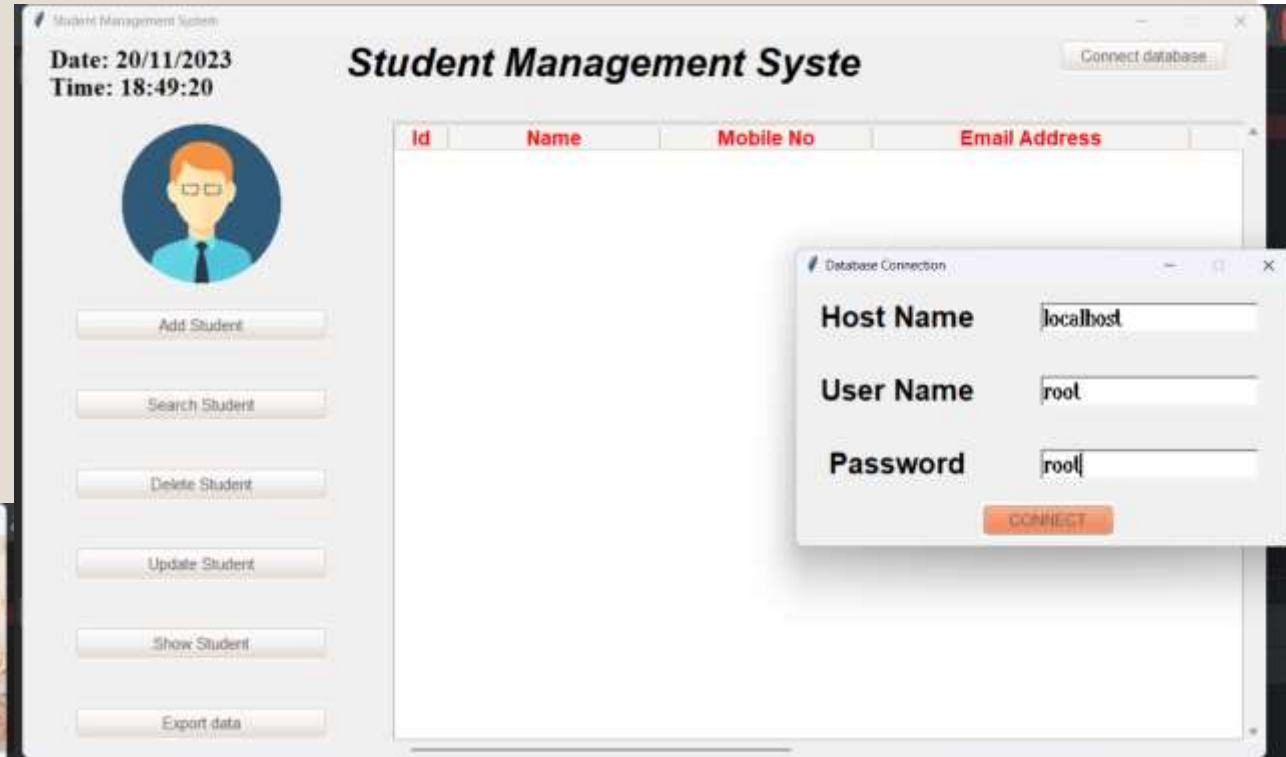
- User friendly interface
- Fast access to database
- More Storage Capacity
- Search facility
- Look and Feel Environment
- Quick transaction

ACTIVITY DIAGRAM

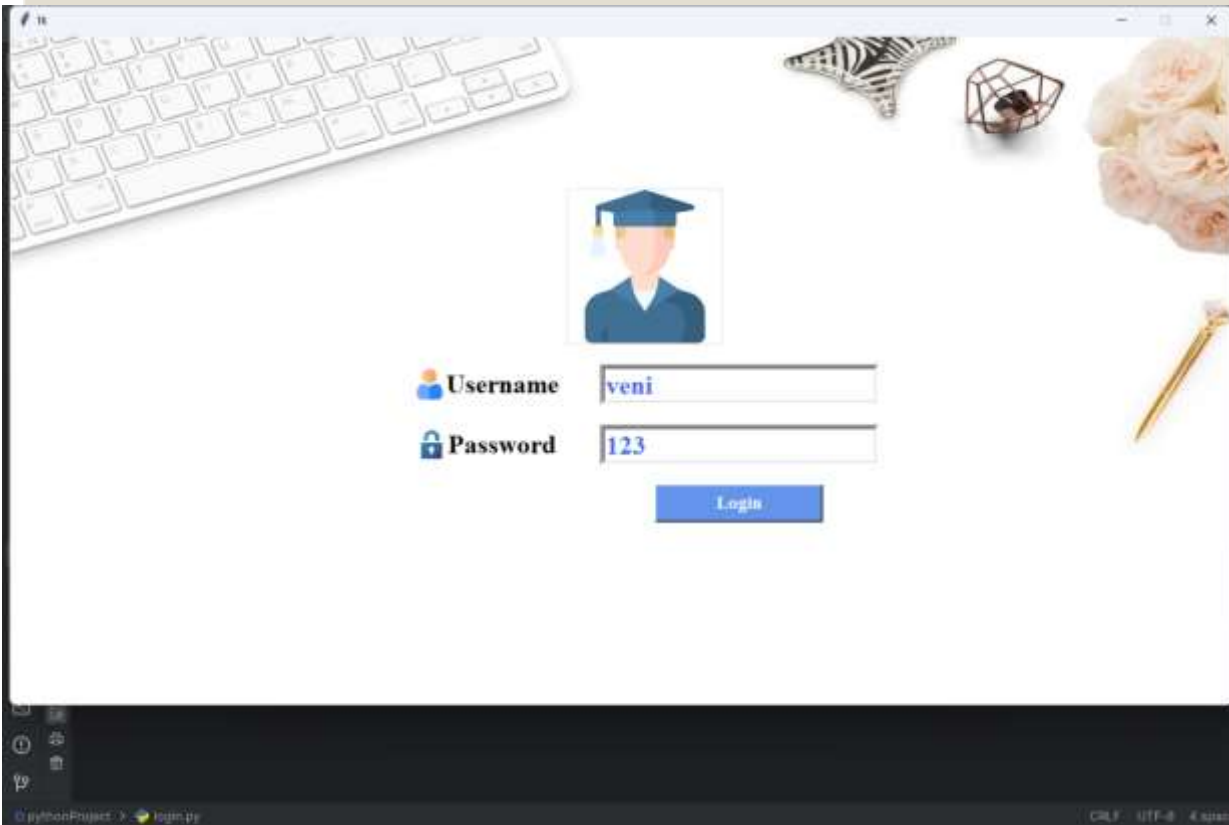


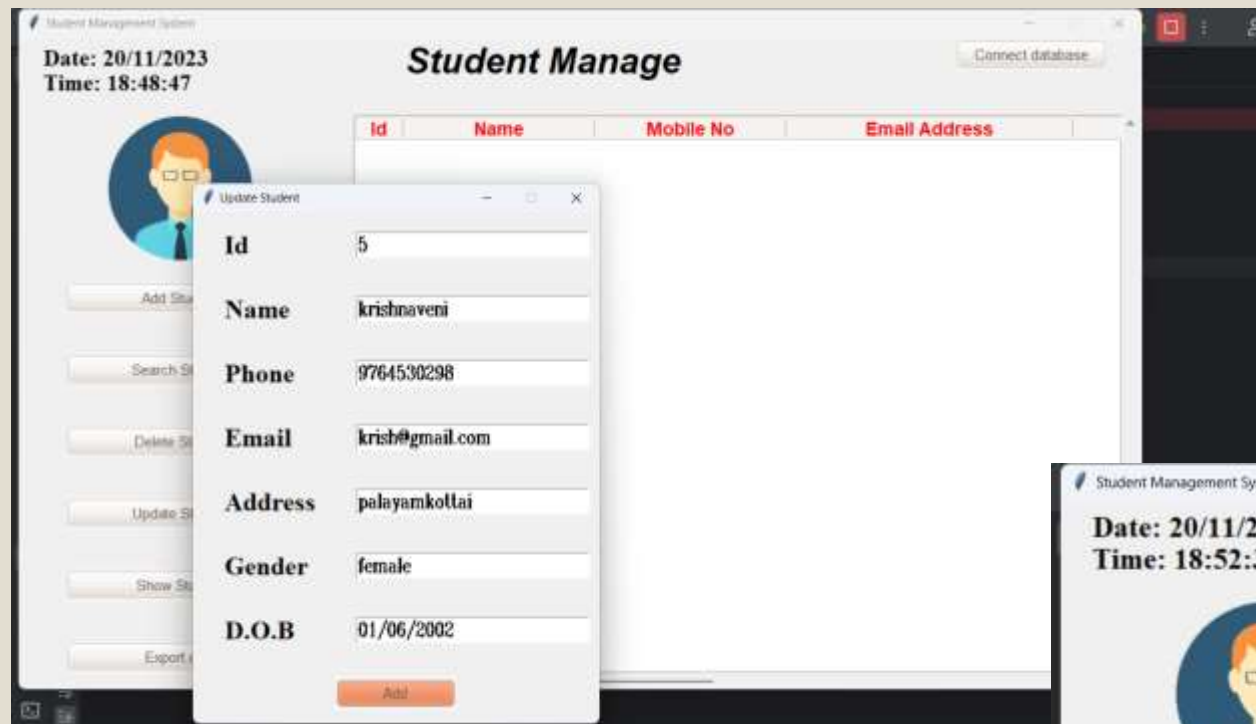
OUTPUT

Database connection

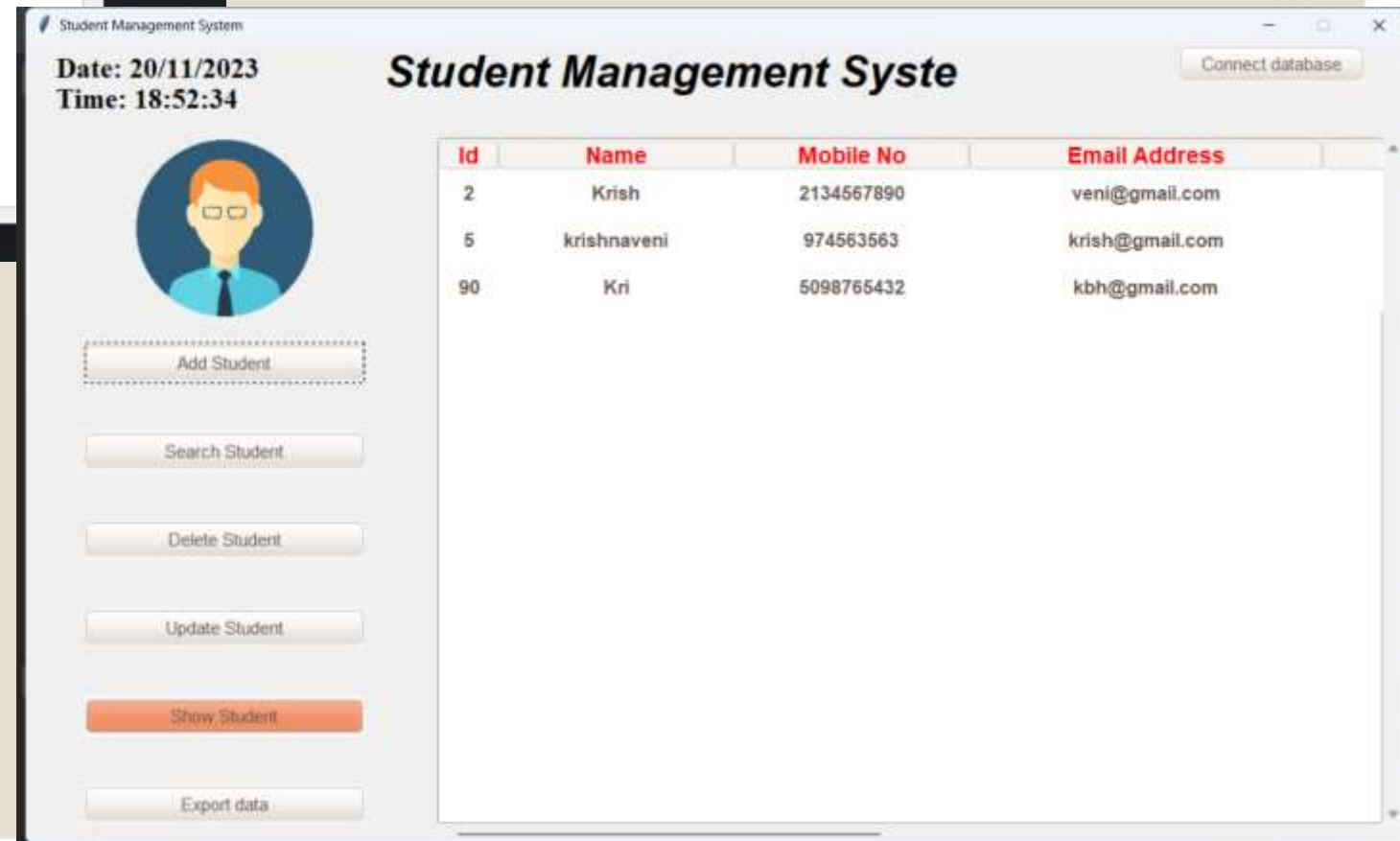


Login page

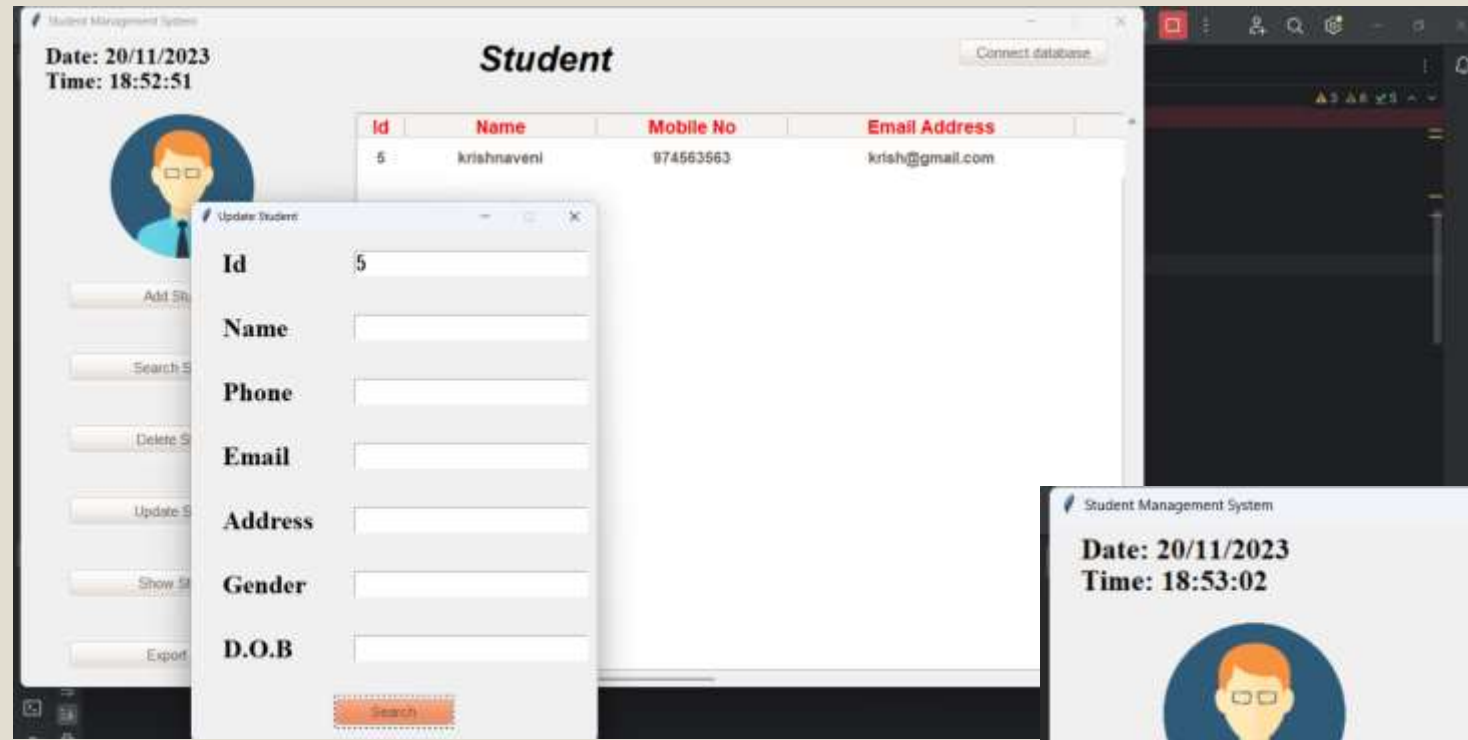




Add student details

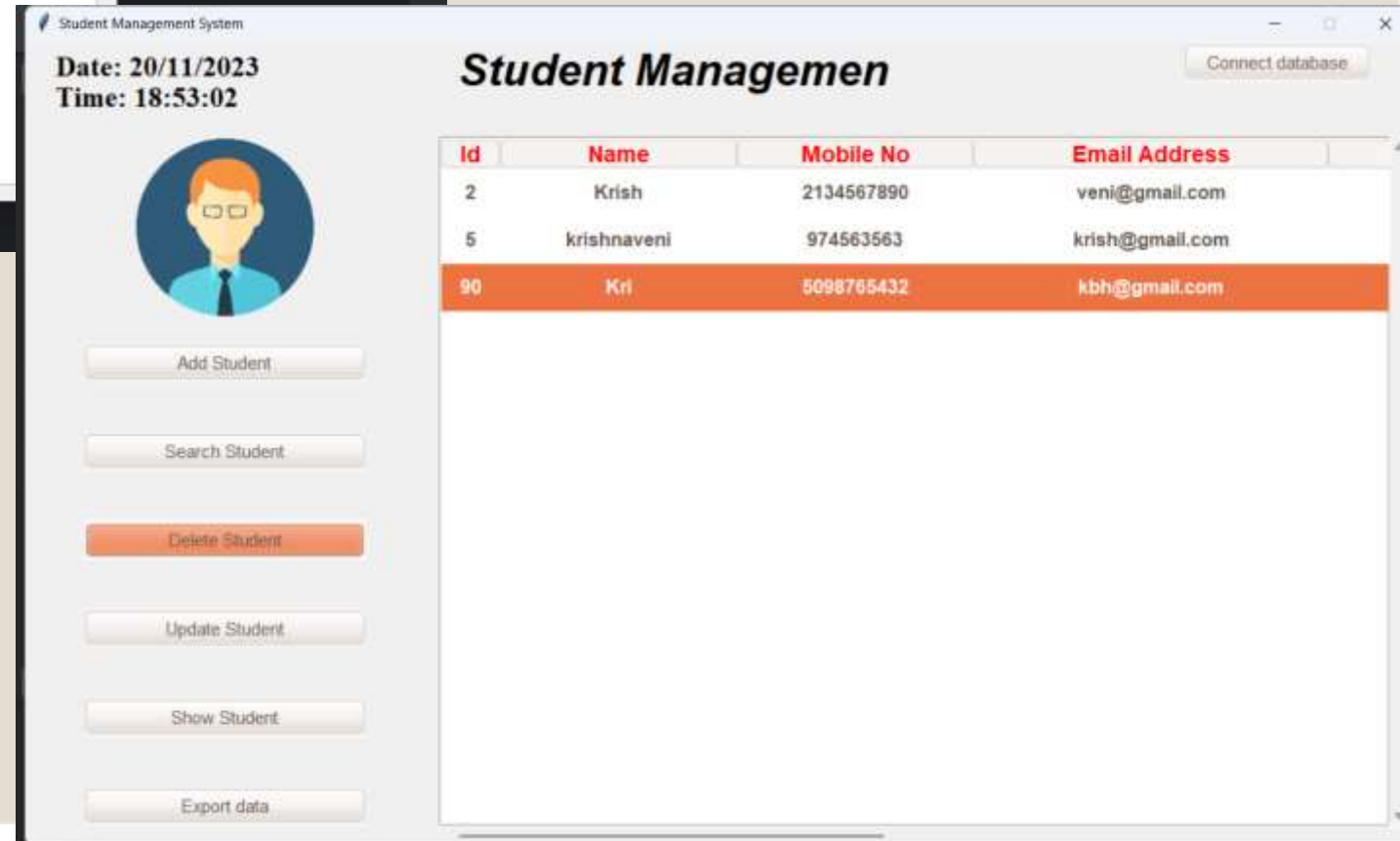


Show student details



Search students details

Delete student details



Student database connection

pythonE 15 else:

Command Prompt - mysql -u × + ▾

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C:\Users\krish>mysql -u root -p

Enter password: ****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 8

Server version: 8.0.33 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> select*from student;

ERROR 1046 (3D000): No database selected

mysql> use studentmanagementsystem;

Database changed

mysql> select*from student;

id	name	mobile	email	address	gender	dob	date	time
2	Krish	2134567890	veni@gmail.com	Delhi	Female	1jun	17/08/2023	20:04:28
5	krishnaveni	974563563	krish@gmail.com	palayamkottai	female	01/06/2002	20/11/2023	18:52:22

2 rows in set (0.00 sec)

mysql> |

CONCLUSION

The project entitled “Student Management System” is developed using Python Tkinter as front end and MYSQL database in back end to computerize the process of management of student records. This project covers only the basic features required. Student Management System can be used by educational institutions to maintain their student records easily. Achieving this objective is difficult using the manual system as the information is scattered, can be redundant, and collecting relevant information may be very time-consuming.

FUTURE ENHANCEMENT

This Software can be made for all OS.Higher Security features can be included in this software..Program scheduling can also be included in this software.This system can be implemented with OS to reduce overhead of installing and running interface of each and every tool at different place..Automatic Shutdown through SMS service can be implemented in this.Following the testing and deployment of the application, it must be maintained to meet various limitations such as availability, reliability, and so on. Depending on the success or input of the users.



THANKYOU