DBMS Lab Project: Student Management System

Deadline: April 13, 2023

ABOUT THE PROJECT:-

The main objective of the project is to design and develop a user friendly-system. In this project, the user has access to all the information of the database once logged in. The user can create an account if he doesn't have an account using the sign up button.

After logging in , the user can do the following operations on the database:

1. In the student's section the user can add student details such as roll number, name, etc..
2. In attendance's section, the user can add the attendance details of the students.
3. In the department section, the user can add new departments to the students database.
4. The record's section stores the information about all the trigger actions done on the student's database such as insertion, update, deletion, etc..
5. In the student detail's section, the user can see all the student's details stored in the database and can also edit and delete student's information in the database in this section.
6. In the search section, the user can search for the records of the students using the roll number/id(primary key) of the students in the database.
7. Once the user is done with the operations, the user can log out using the logout button.

SOFTWARE REQUIREMENTS :-

Frontend- HTML, CSS, Java Script, Bootstrap

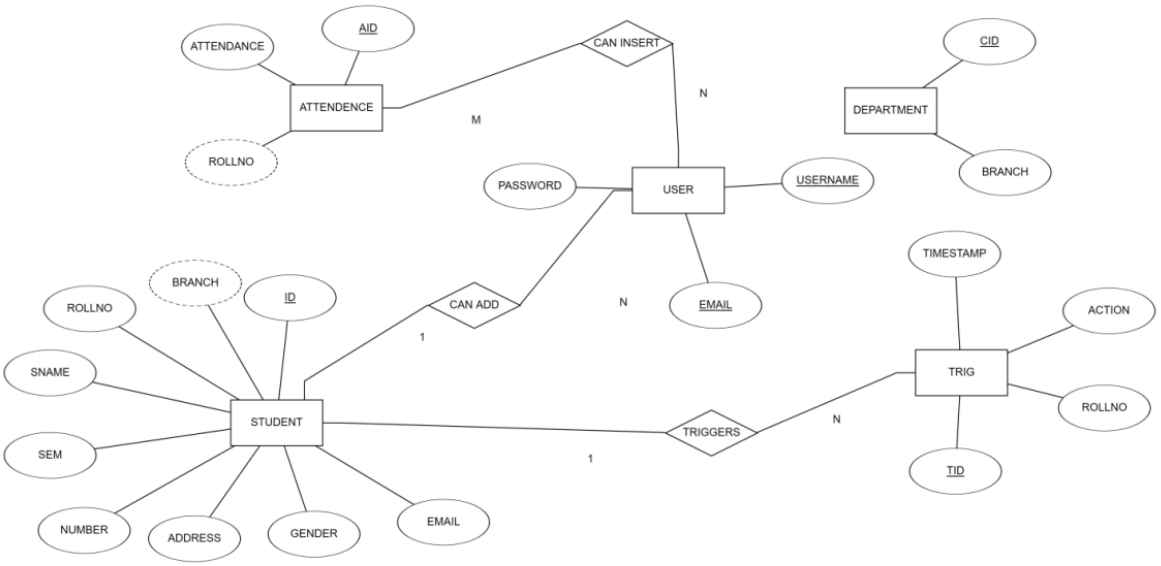
Backend- Python flask (Python 3.7) , SQLAlchemy,

1. Operating System: Windows 10 Google Chrome/Internet Explorer
2. XAMPP (Version-3.7)
3. Python main editor (user interface): PyCharm Community
4. Workspace editor: Sublime text 3

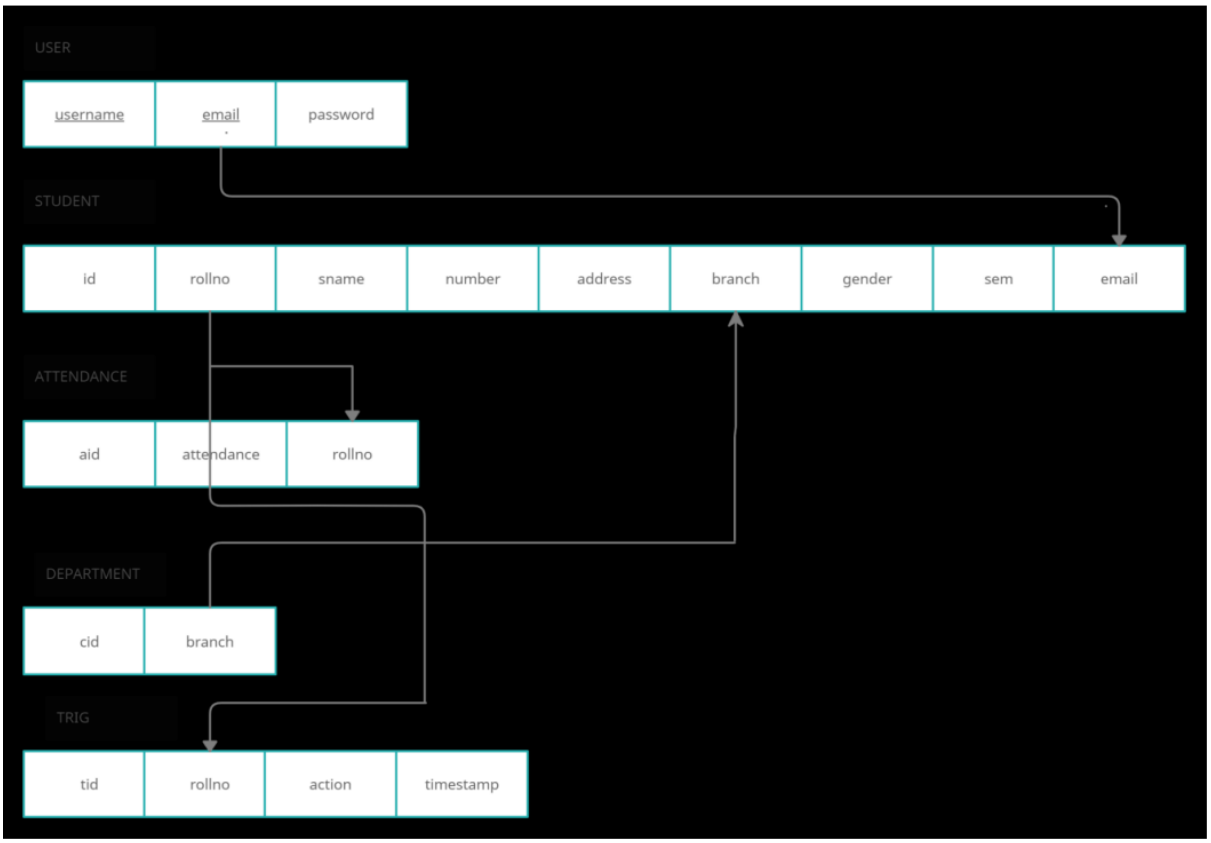
HARDWARE REQUIREMENTS :-

1. Computer with a 1.1 GHz or faster processor
2. Minimum 2GB of RAM or more
3. 2.5 GB of available hard-disk space
4. 5400 RPM hard drive
5. 1366 × 768 or higher-resolution display DVD-ROM drive

ER DIAGRAM:-



SCHEMA DIAGRAM :-



CONCLUSION:-

This project is successfully implemented based on online data filling which helps us in administering the data user for managing the tasks performed in students. The project successfully used various functionalities of Xampp and python flask and also created the fully functional database management system for online portals.

Using MySQL as the database is highly beneficial as it is free to download, popular and can be easily customized. The data stored in the MySQL database can easily be retrieved and manipulated according to the requirements with basic knowledge of SQL. This is the conclusion of my project “STUDENT DATABASE SYSTEM”.

REFERENCES:-

1. https://www.youtube.com
2. https://www.google.com
3. https://www.getbootstrap.com