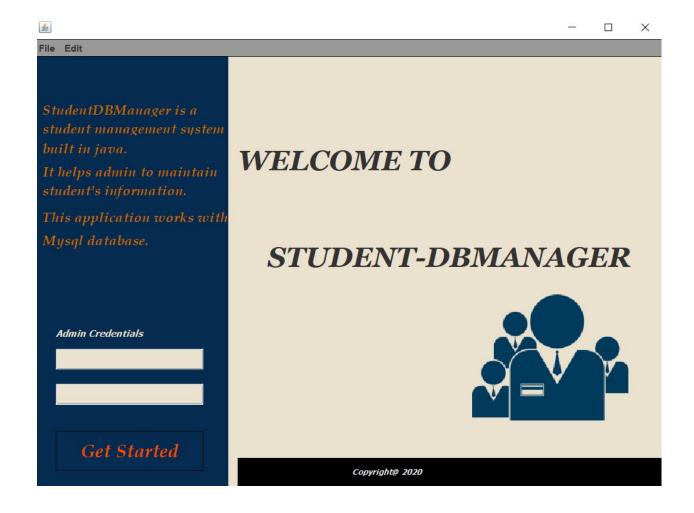
# STUDENT DATABASE MANAGEMENT SYSTEM

Students data storing and handling system built in JAVA



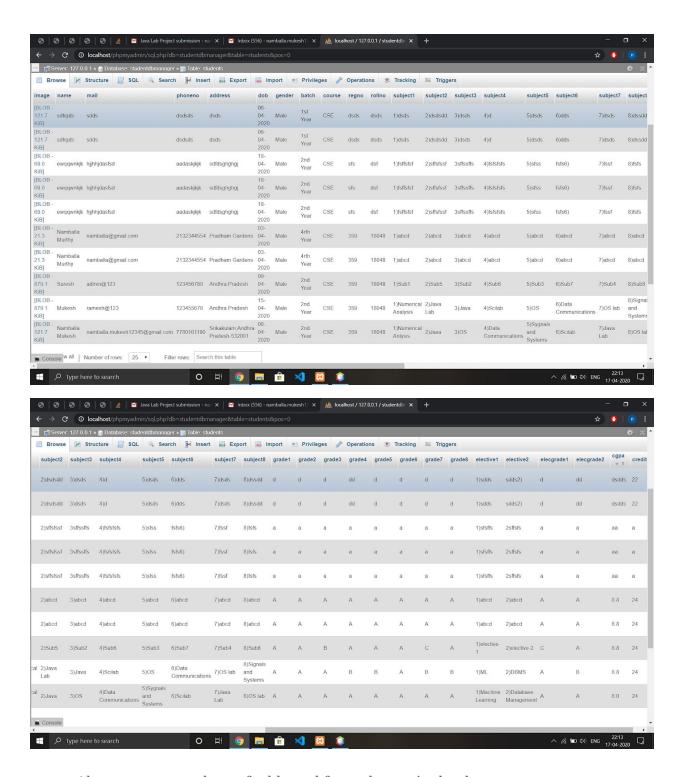
**Problem no:** 11 >> Student Database Management System **Problem Statement:** The system will have a GUI for user interaction and backend database (MySQL). The system will allow users to insert student information in a database and search student details (name, address, subjects, electives, total credits, grades etc.)

## **About StudentDBManager**

- >>It is a GUI based database interactive application built in java.
- >>It uses the MYSQL database.
- >>Users should login as admin to access and manage data. By default admin credentials are username: admin password:admin@123 .
- >>User is allowed to perform following operations:
  - 1)Inserting new Students into Database.
  - 2)Searching and viewing student details.
  - 3) Updating students' information.
  - 4)Deleting student from database.
  - 5)To see the complete students list.
- \*\*\*It is suggested to run application using netbeans IDE.

### **SCOPE OF WORK**

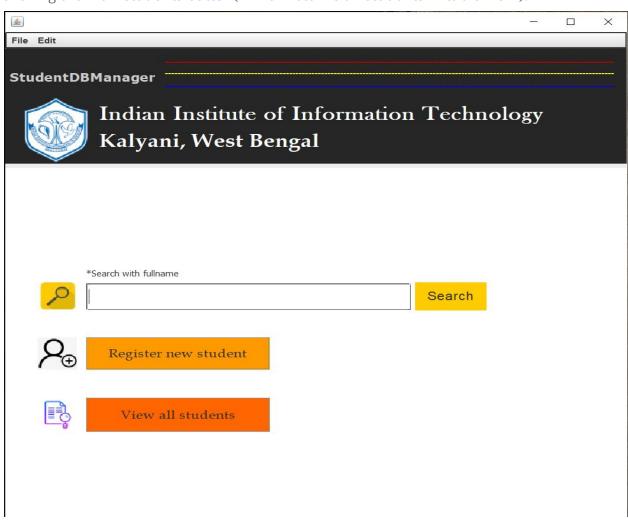
- >>We designed a layout for each user interactive interface and we started building it using JAVA SWING controls.
- >>After completing the GUI part, we figured out the interfaces that need a mysql connection. We used mysql-connector to achieve the connection.
- >>We created suitable tables and columns in database. On users request, the application performs rendering data from database or uploading into database.



■ Above are screenshots of table and few columns in database.

## Discussion on functionalities of application

- 1. In a welcome frame once the user enter's username and password, they are verified and redirected to the manager frame which contains search, register and view functionalities. It throws error if credentials are invalid.
- 2. If a user enters a name, then the application starts searching it from database and returns all information. This data is displayed in assigned labels and textfields.
- 3. User can update or delete student after search query execution. After performing theseoperations, user can confirm the operations performed directly from GUI by clicking the view students button(Which returns all students in table from).



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1. Above are some screenshots of the application.

# **CONCLUSION**

#### Future Implementations:

1)We want to add search filters for better search results. We want to ensure security of application by implementing its credentials validating functions.

2)We want to develop new frames for updation and deletion operations for a better view.