

IMPLEMENTATION

6.1. Introduction:

A proper academic management system is very much needed for handling all the academic work of any institution. The objective of this report is to give the overview of the implementation of our system.

Sections described below are the Architectural Pattern in second section, Detailed Class Diagram in third section, Snapshots of our system in section 4, Limitation of Our System in section 5, Future Work in section 6 and the last section is about the Conclusion.

6.2 Architectural Pattern:

An architectural pattern is a general, reusable solution to a commonly occurring problem in software architecture within a given context. Architectural Pattern defines the overall shape and structure of software applications. We have used 3-tier architectural pattern for developing our software.

3-tier architectural pattern are three layers. They are presentation layer, application layer and database layer.

Presentation Layer: Presentation Layer occupies the top level and displays information related to services available on a website. In this layer, graphical user interface (GUI) or web interface is shown. It translates tasks and results to something the user understands. So, the user input is accepted and the output is generated in this layer.

Application Layer: Application Layer is also called middle tier, logic tier or business logic tier. It coordinates the application, processes commands, makes logical decisions and performs calculations. The application programs and the web pages are in this layer.

Data Access Layer: Information is retrieved and stored from a database management system.

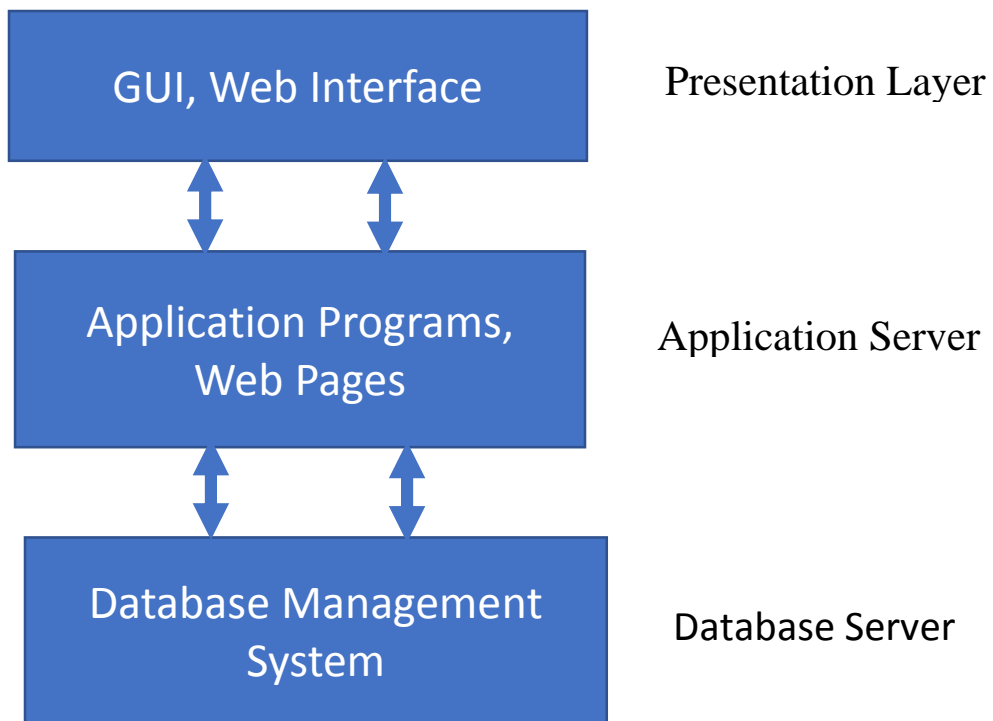


Fig 1:- Block diagram of 3-tier architectural pattern

6.3 Detailed Class Diagram

6.1 View information

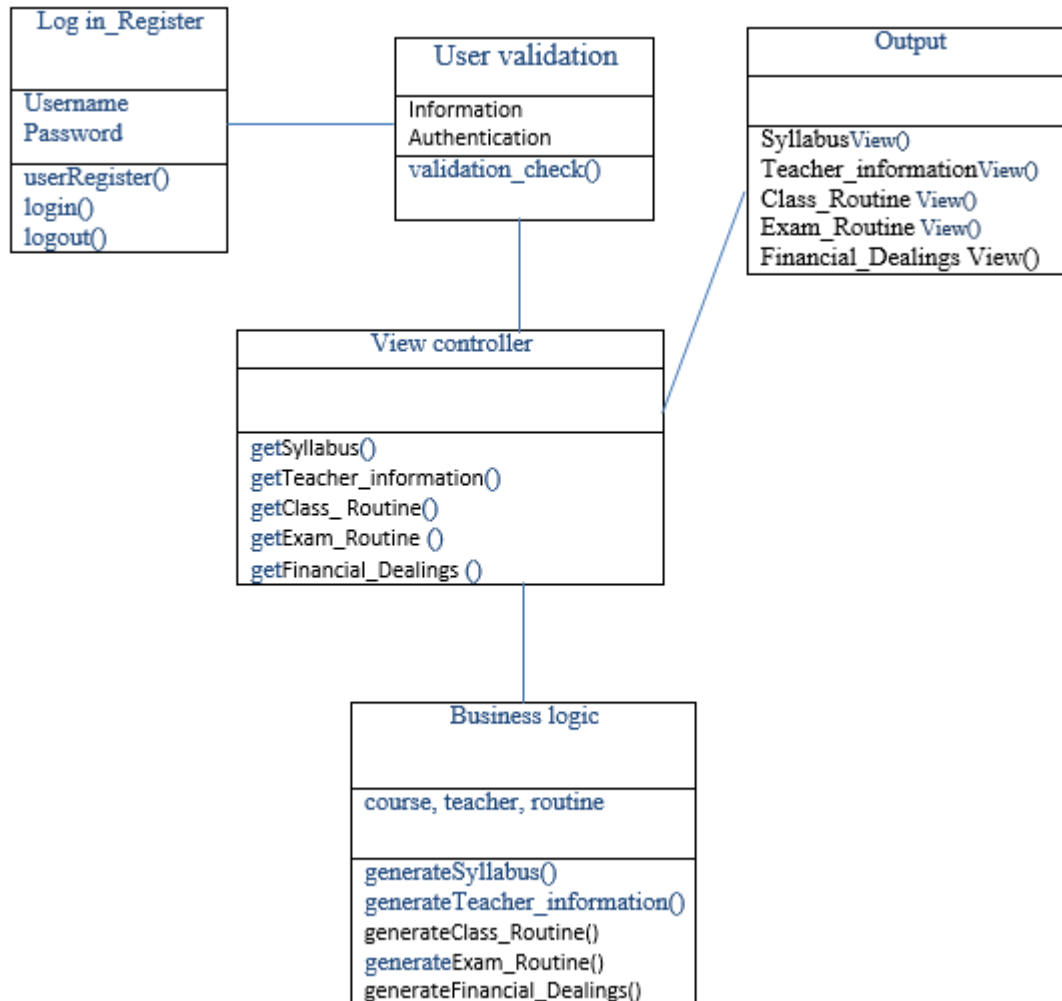


Fig 2: Class diagram for viewing information

6.2 Insert data in the specific table:

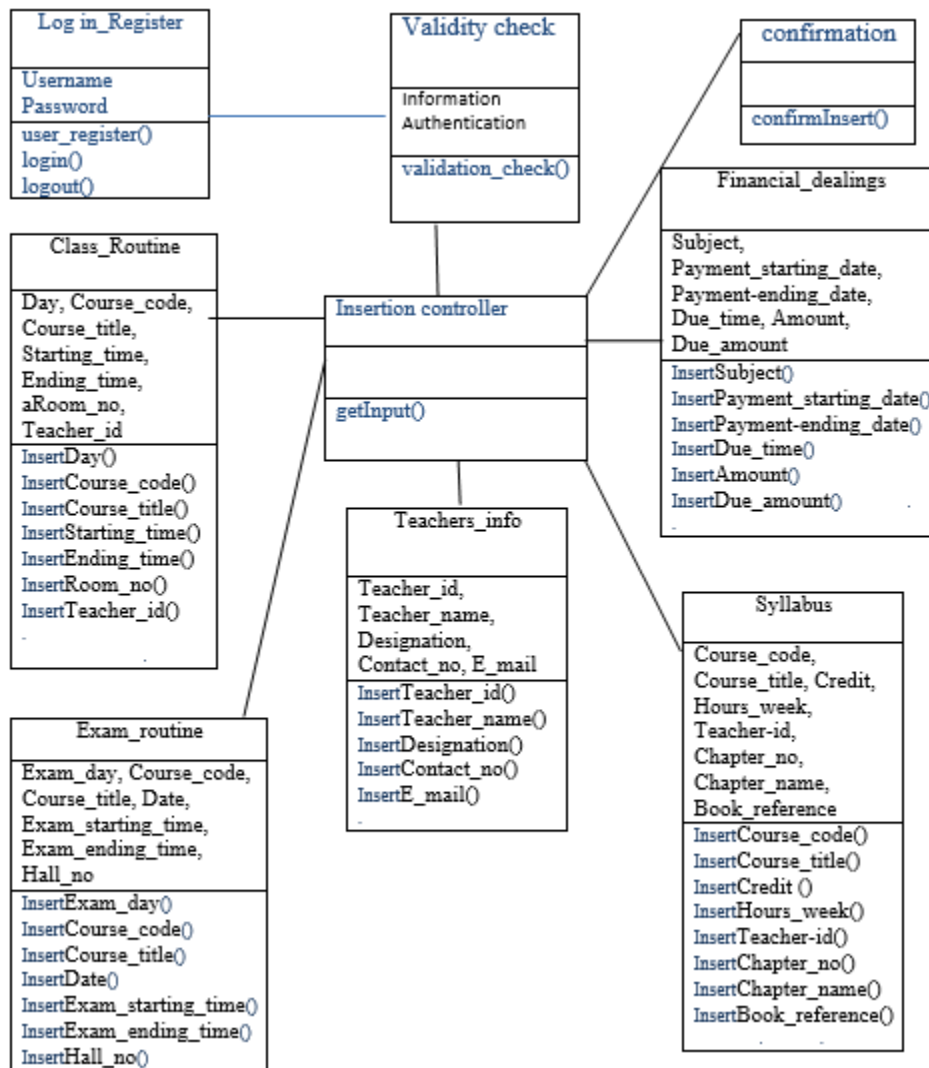


Fig 3: Class diagram for inserting data

6.3 Delete data in the specific table:

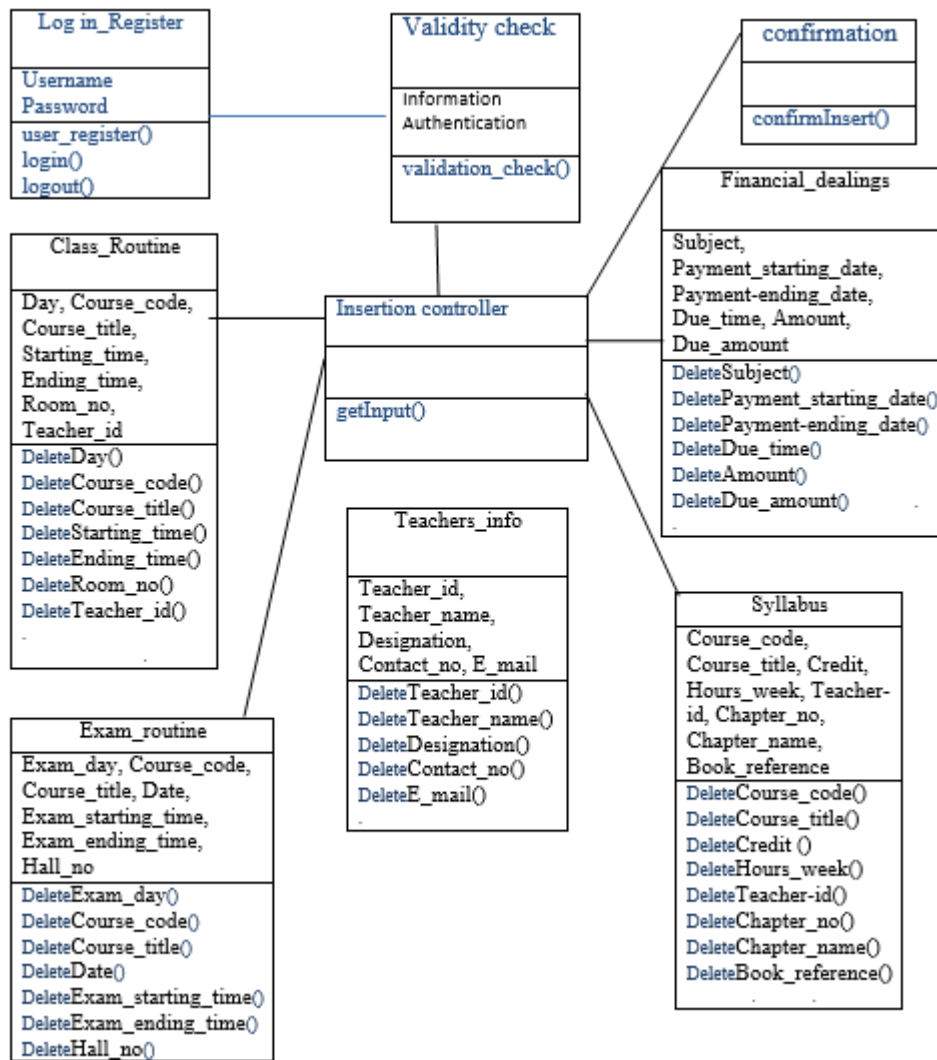


Fig 4: Class diagram for deleting data

6.4 Update data in the specific table:

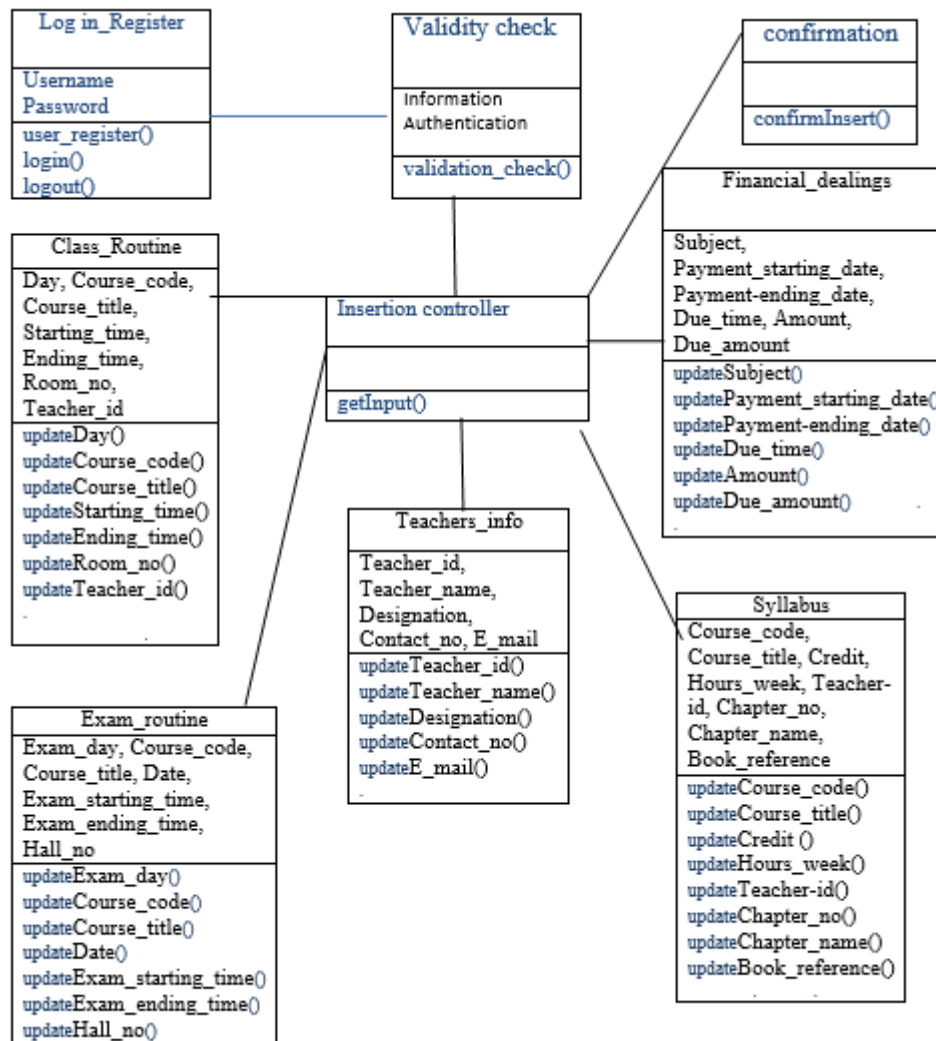


Fig 5: Class diagram for updating information

6.4 System's Demonstration

6.4.1 Snap of selecting user

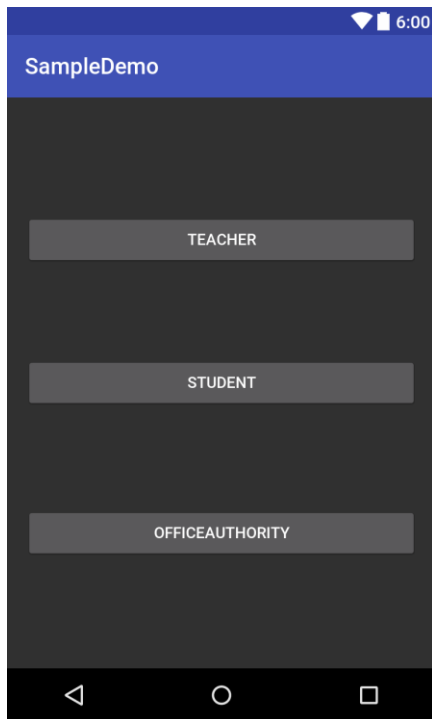


Fig 6: selecting user

6.4.2 Snap of selecting Login and Registration for Office Authority

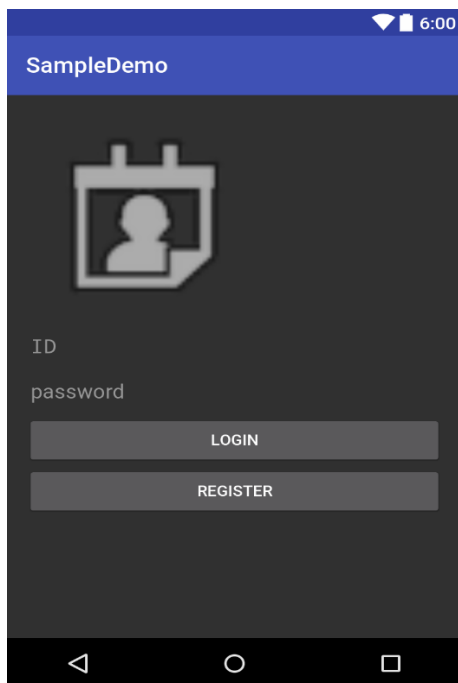


Fig 7: selecting Login and Registration for Office Authority

6.4.3 Snap of selecting login and Registration for Students

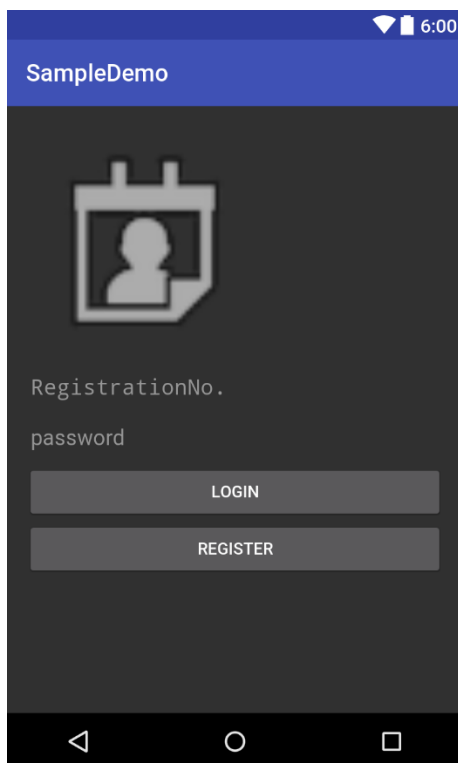


Fig 8: selecting login and Registration for Students

6.4.4 Snap of selecting login and registration for Teachers

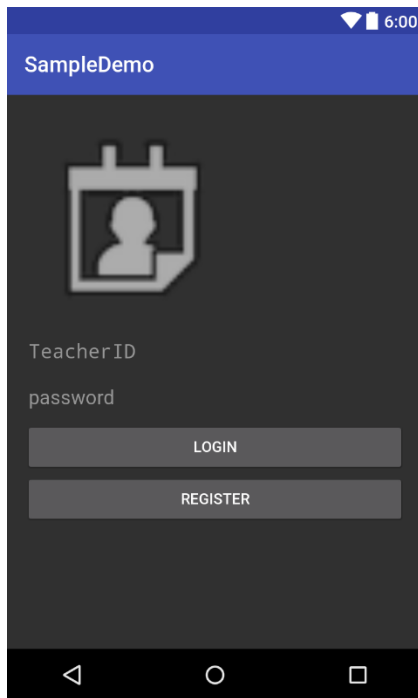


Fig 9: selecting login and registration for Teachers

6.4.5 Snap of selecting Registration for Students

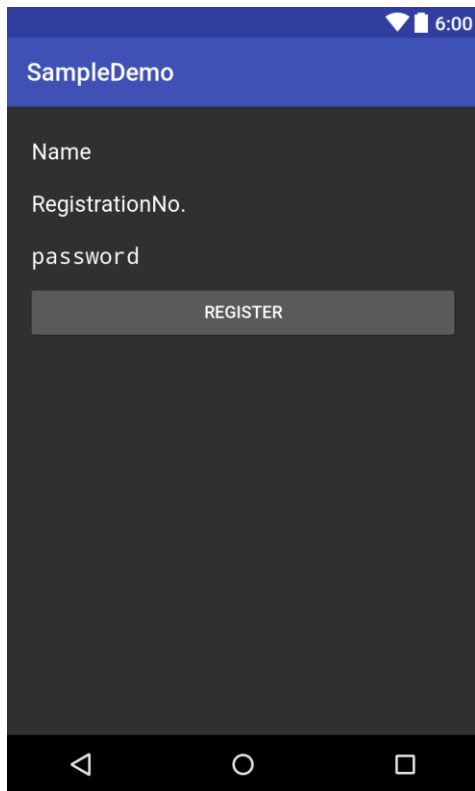


Fig 10: selecting Registration for Students

6.4.6 Snap of required information related database of our respected teachers

| teacher_id | teacher_name | designation | contact_no | e_mail |
|------------|----------------------------------|----------------------|-------------|---------------------------|
| 106001 | Dr. Mohammad Shahadat Hossain | professor | 01819336660 | hossain_ms@hotmail.com |
| 106002 | Dr. Md. Hanif Seddiqui | professor | 01933236173 | hanif@cu.ac.bd |
| 106003 | Dr. Mohammad Khairul Islam | professor | 01919611867 | chairman.cse@cu.ac.bd |
| 106004 | Dr. Mohammad Osiur Rahman | professor & chairman | 01716339133 | osiur_rahman@yahoo.com |
| 106005 | Dr. Muhammad Mostafa Monowar | associate professor | 01190165919 | monowar@cu.ac.bd |
| 106006 | Muhammad Anwarul Azim | associate professor | 01799634272 | azim@cu.ac.bd |
| 106007 | Dr. Mohammad Sanaullah Chowdhury | associate professor | 01924427634 | sana1691@gmail.com |
| 106008 | Dr. Rashed Mostafa | associate professor | 01819646333 | rashed.m@cu.ac.bd |
| 106009 | Mr. Nihad Karim Chowdhury | associate professor | 01713462026 | nihad@cu.ac.bd |
| 106010 | Mr. Kazi Ashrafuzzaman | assistant professor | 01717124315 | ashraf@cu.ac.bd |
| 106011 | Mr. Md. Rukun Uddin Faroque | assistant professor | | NULL |
| 106012 | Mr. Fahim Irfan Alam | assistant professor | 01xxxxxxxxx | fahim1678@gmail.com |
| 106013 | Mr. Iqbal Ahmed | assistant professor | 01711481086 | iqbal.ahmed@cu.ac.bd |
| 106014 | Mrs. Farah Jahan | assistant professor | 01819611867 | farah_csc@yahoo.com |
| 106015 | Mr. Rezaul Karim | assistant professor | 01817715159 | pinnacleofsuccess@yahoo.c |
| 106016 | Rudra Pratap Nath | assistant professor | 01xxxxxxxxx | prataprudracsecu@gmail.co |
| 106017 | A. H. M. Sajedul Hoque | assistant professor | 01716496886 | hoque.cse@cu.ac.bd |
| 106018 | Mr. Atiqur Rahman | assistant professor | 01712907724 | atiqcse09@cu.ac.bd |
| 106019 | Shima Chakraborty | assistant professor | 01726150579 | shimacse@cu.ac.bd |
| 106020 | Nasrin Sultana | assistant professor | 01717027436 | nasrin1219@gmail.com |
| 106021 | Md. Mahbubul Hoque | assistant professor | 01818791084 | mahbubcse@cu.ac.bd |

Fig 11: information related database

6.5 Limitation of System

As there is no notification system for any function, users will not get notified at that time about the sudden changes of information.

6.6 Future Work

We will add notification system in our software as soon as possible. Moreover, we will try to work with all the research carried out by the teachers and notable works by students. We think that this will help other students to progress as they will gather more knowledge. We will work to improve our system for larger platform.

6.7 Conclusion

Academic Schedule Management System will be very much helpful for all the people related to any specific educational institution. The aim was to automate and make a system that is useful to the organization such as an institution. They will get to know all information in the shortest possible time. We tried to make our system user-friendly. We hope that our app will save time and energy of all user.