* **Abstract:**

This project is a bridge between Authority and Pupils. It creates a digital environment where students can communicate with teachers in a systematic way. It also ensures that data related to students is secured and only the students are in charge of the data manipulation.

The main goal of this project is to modernize Data Management system. Students are automatically notified when there is an update or announcement of any sort. Educational information like Academic Performance, Grade Point, Reminders about Seminars and Events get directly sent to Students.

This application is entirely for the Department of Computer Science and Engineering. The interface provides a user-friendly environment. There are different Sections that carry different Information and functionalities.

* **Platform:**
* JavaFX (+SceneBuilder)
* MySQL (XAMPP)
* Jfoenix library
* jsoup-1.10.2

### Identification of functional requirements

* **New user registration:** Any Student/Teacher from AUST CSE will get to have an account, the account must be approved by the admin before they can use it. The username will be based on university ID for students and for the teachers the user name will be based on their initial.
* **User Login:** After creating account anyone can login using their id/initial and password. If anyone loose his/her password, they can retrieve the information contacting the admin. If the given username/password are wrong, a message showing wrong password/username will be shown.
* **Search bar:**
* For Students : Department year, semester and name are required
* For Teachers : Teacher’s name is required
* **Personal information**:
* Student : Name, id, section, group, email, contact number
* Teacher : Name, subjects, contact number, email
* **Messages**: Users can send each other messages.
* **Notice Board**: Notifications will appear in this screen when any teachers upload any result/information or admin confirms payment.  
  The notification may be different based on the student id/semester.
* **Result**:
* **For Students** **:** Students can view their own results of selected semester in this section and they will not be allowed to see others’ results. They can get CGPA instantly there.  
  Moreover, it will automatically be updated if any results are published.
* **For Teachers** **:** Teachers can upload mark sheet or give any information for their respective subjects. They can schedule any quiz/class test for students, and once scheduled, all the relevant students will be notified instantly.
* **Payment Info:** Here student will be able to see if their due payments are clear.
* **Admin Panel:** This is for the one in charge of maintenance. The admin can approve any account, or he can also deactivate any user account if anything wrong happens.

* **Priority List**

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| Number | Features | Priority |
| 1 | User Registration and login | High |
| 2 | Search Bar | High |
| 3 | Texting | Low |
| 4 | Notice Board | High |
| 5 | Admin Panel | Low |
| 6 | Results | High |
| 7 | Payment Info | High |