Exam Grades Management System

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Key features of the project

- Student:
  - Can view their marks and grades
  - Add course

- Faculty:
  - can view statistics of any student registered in a particular course.
  - Add course
  - Can update marks
  - Can modify grades

List of use cases

- Profile Actions
  - View profile
  - Modify profile
- Register
- Login
- View stats
- Select course
- Put marks
- Modify grades

Structure of the database/ file system

- Database is implemented using maps of standard template library.
- Maps are associative containers that store elements in a mapped fashion.
- Object of the implemented class are stored in these maps.

Things that could not be implemented

- Database class specified in SRS has not been implemented.
- File handling has not been used.
- Functionality to indicate the start and end of semester.
- View Pointer function has not been implemented
- Password encryption has not been done.

Statistics of unit and system testing

- Test cases was identified by varying inputs give to the functions that were tested.
- Integrated Development Environment (IDE) named Clion was used for static unit testing.
- Total 17 functions of 4 classes were tested.
- System was not in accordance to the SRS document with respect to Database class.

Logic Circuit Simulator

(Software tested by the team)

List of Use cases tested

- Login
- Register
- Logical expression
- Truth Table
- Profile

Statistics of the test cases

- Total 6 functions were tested.
- 5 functions were correct and 1 was incorrect.
- Equations were not printed correctly.
- System implemented was not in accordance to the SRS. Many use cases are specified but not implemented.

Conclusion

- Exams Grade management system was developed.

- The process involved in the development of a software system was understood right from requirements identification to testing.

Thank you