System Requirement Specification
(SRS) For
Akura Class Management System

Group Members are

A.D.P.Dilshan

Chathuranga

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1. Background

   All the student population of Akura institute grows over time, the volume of student registration and the manual process of recording, retrieving, and updating each record is getting to be tremendously tedious.

   Because of that problem, the Akura institute urgently needs a software system to manage and registration all students.

2. Problem Statement

   The Tuition class student registration and other student affairs are done manually. This procedure has many mistakes, such as lose documents, lose student cards, mistakes in the exam results, and many others. Create a computer system can eliminate these problems.

3. Goals

   - To finish on time

     The project must be completed on time.

   - To meet the requirements
     The goal here is to meet the requirements that were set for the project at the start.
   - To keep customers happy.
   - To keep happy team.

4. Objectives

   The Product will automate the tuition class management process.

5. System Analysis

   5.1.Functional

   Requirements

   This section provides the requirement overview of the product. The project

   will require Java as a front end, and the back end the database MYSQL will be running. Various functional modules that can be implemented by the product will be –

   1. Login
      Admin, Registrar & other employees login to system using their own username and password.

2. Student registration.
   When registering a new student for the system, first collect the student details through the application. That data is entered into the system by the registrar. Within this data have student's biodata and educational information.

3. Students enroll for classes.
   Enroll to class each students by selecting their subjects. One student can join one or more classes.

4. Create classes and schedule exams.

5. Automatically show class time tables and class details.
6. Generate reports and can download and take printout reports.
7. View line chart of student’s exam results range in student details view.

5.2. Non-Functional Requirements.

Non-Functional requirements are requirements that are not directly concerned with the specific functions delivered by the system. They may relate to emergent system properties such as reliability response time and store occupancy. They specify system performance, security, availability and other emergent properties.

1. Safety Requirements

   Every month must be generate backup automatically.

2. Security Requirements

   Student registration numbers must be unique and easily identify.

   System must be include logout button. User login password are must be encrypted.

3. Software quality attributes reliability

   Measure if product is reliable enough to sustain in any condition. Should give consistently correct results. Product reliability is measured in terms

of working of project under different working environment and different conditions.

4. Maintainability

   Different versions of the product should be easy to maintain. For development, it's should be easy to add code to existing system, should be easy to upgrade for new features and new technologies time to time. Maintenance should be cost effective and easy. System be easy to maintain and correcting defects or making a change in the software.

5. Usability

   This can be measured in terms of ease of use. Application should be user friendly. Should be easy to learn. Navigation should be simple.

6. Portability

   This can be measured in terms of coating issues related to porting. Technical issues related to porting, Behavioral issues related to porting.

7. Correctness

   Application should be correct in terms of its functionality, calculations used internally and the navigation should be correct. This means application should adhere to functional requirements.

8. Efficiency

   To Major system quality attribute. Measured in terms of time required to complete any task given to the system. For example system should utilize processor capacity, disk space and memory efficiently.

5.3. System Requirement

- Windows 10 (8u51 and above) operating system.
- RAM: 128 MB
- Disk space: 1GB

- Processor: Minimum Pentium 2 266 MHz processor

6. Investigation & Analysis

Methodology. 6.1.System

Investigation

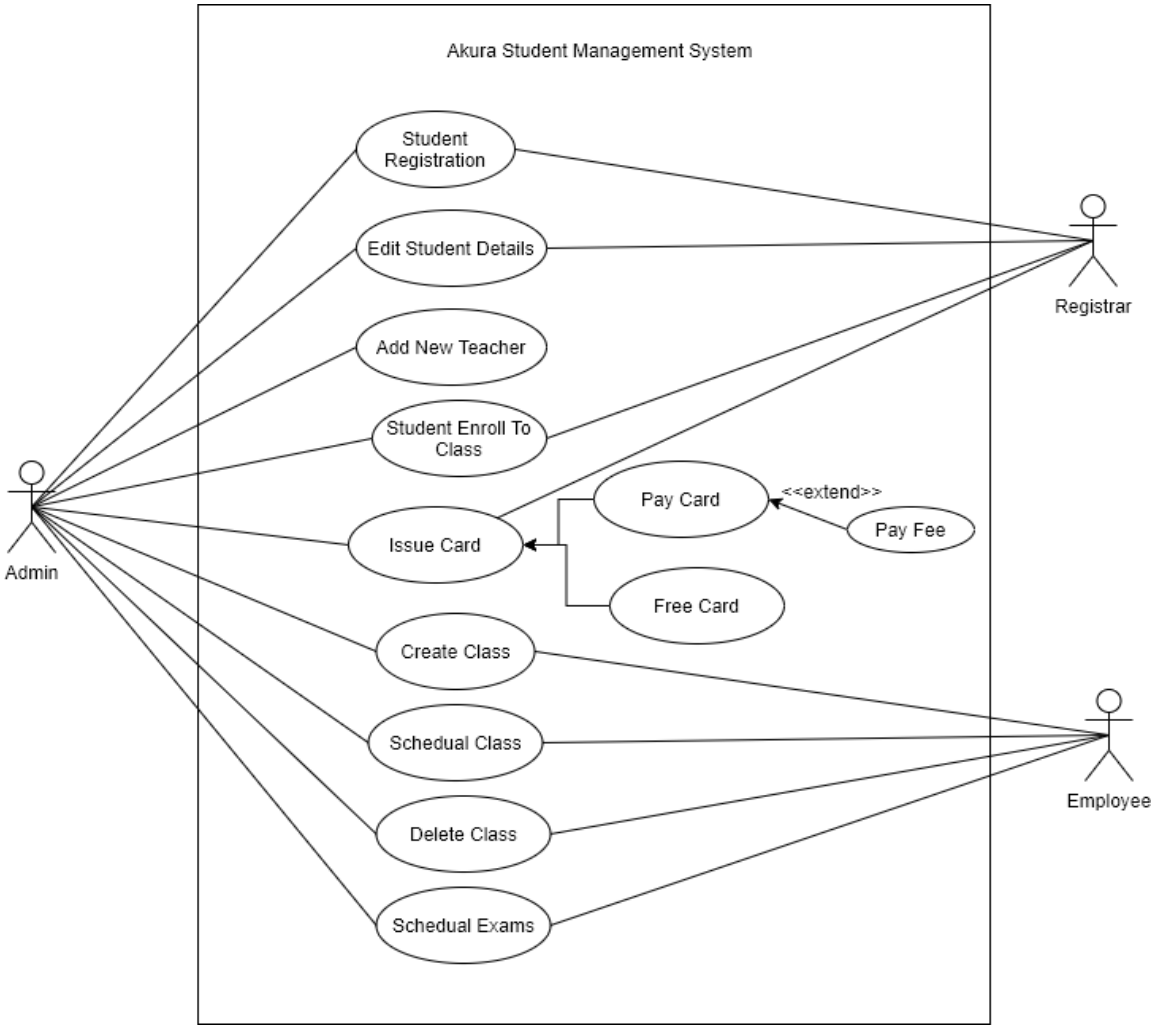
The Akura management system's data input by users transactions are catch from its form system and that's are updated to the MySQL database.

6.2.Analysis Methodology

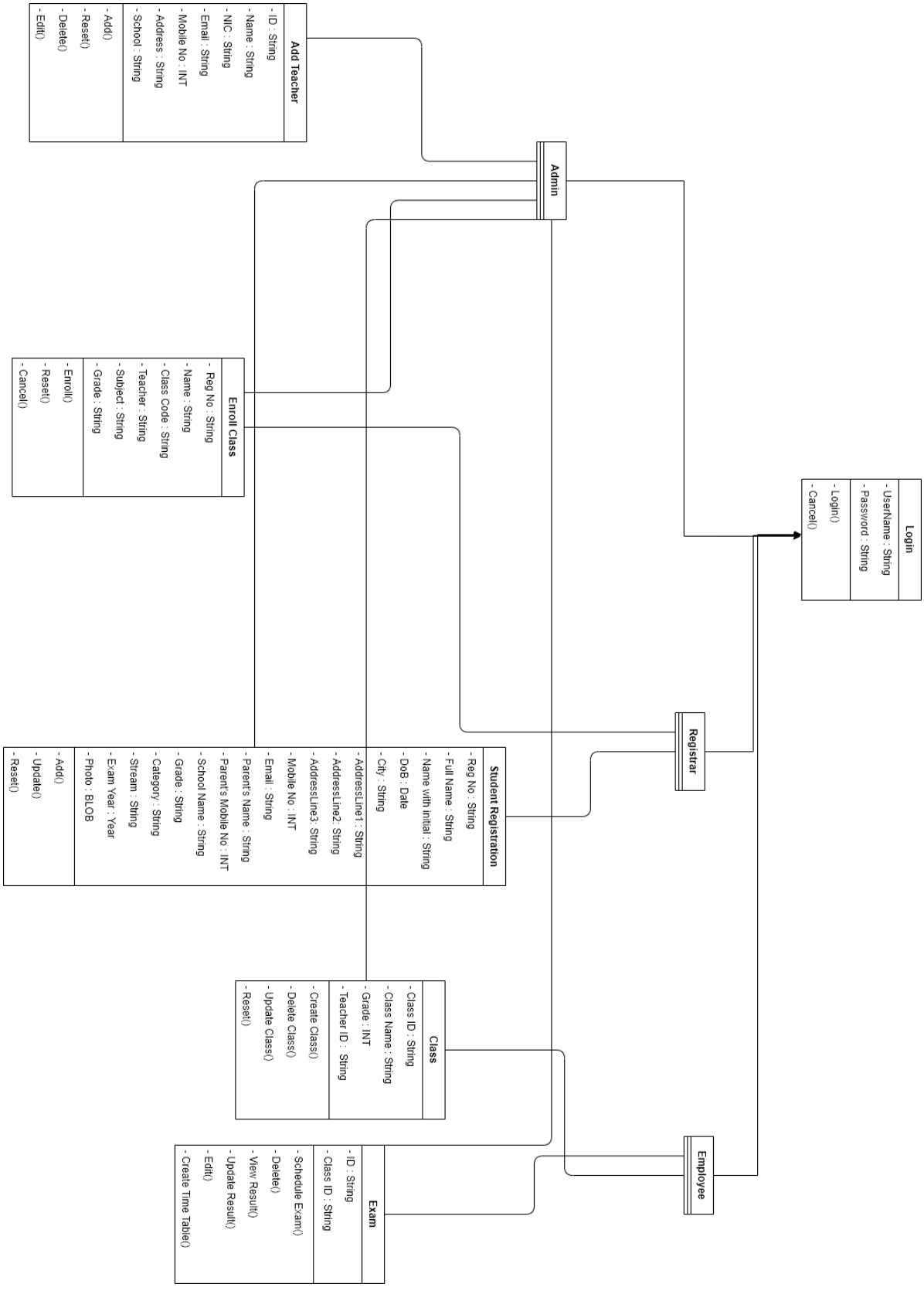
Organize a development and implementation team composed of people knowledgeable about the current registration processes with which regular meetings will be held. Present a questionnaire for employees and other users.

7. System Design

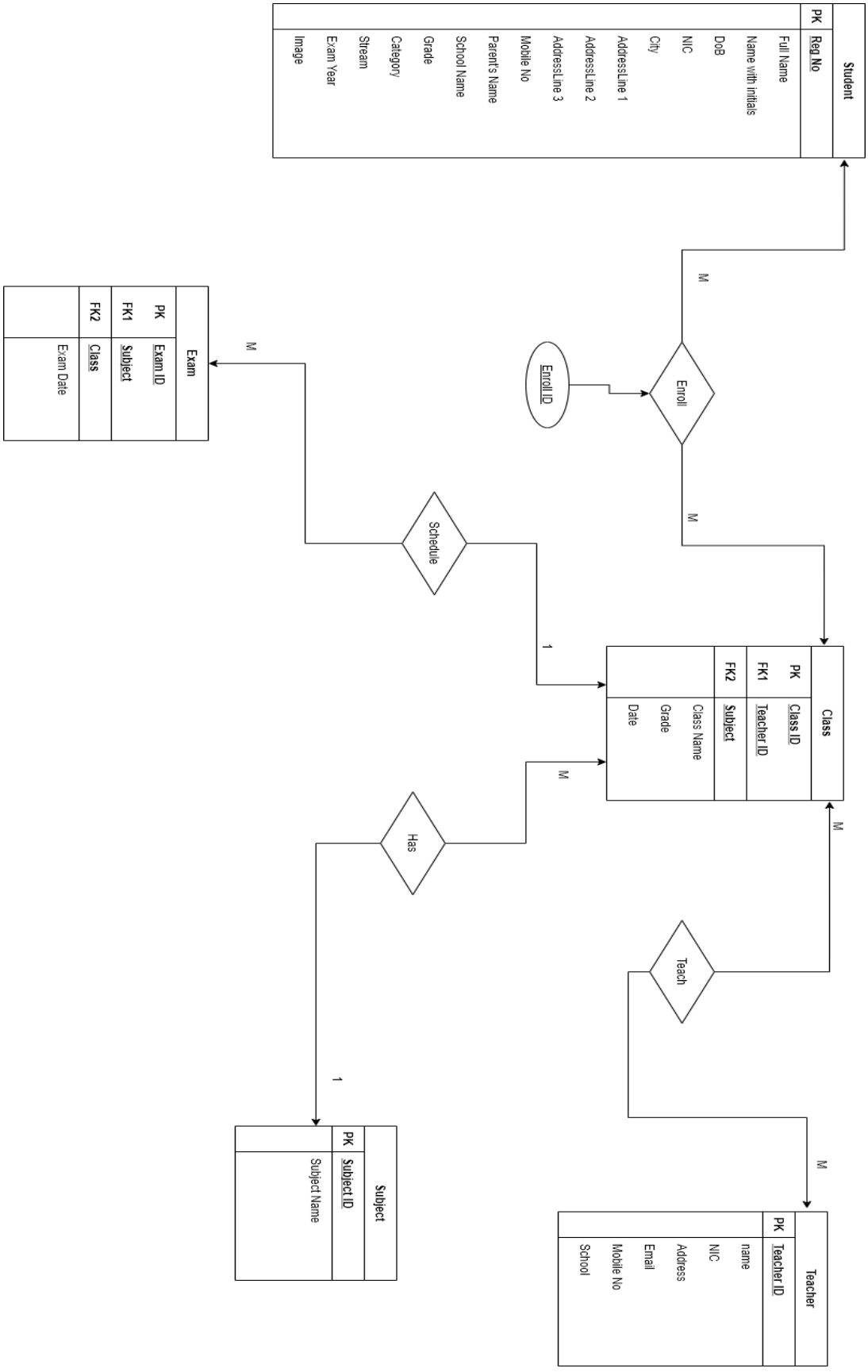
7.1. Use Case Diagram



7.2. Class Diagram



7.3. Entity Relationship Diagram.



7.4. Interface

Admin dashboard

- View total performance in the system.
- View daily classes and exams on dashboard.
- Admin can access all features.
- View all students.