OMAR AL-MUKHTAR UNIVERSITY

DEPARTMENT OF COMPUTER

PGCS653 - ADVANCED OBJECT-ORIENTED PROGRAMMING

BASIC SCHOOL DATA MANAGEMENT SYSTEM

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1. A summary of the system

Basic School Data Management System is a computer program designed to automate and streamline administrative and academic processes within a school.

Purpose of the System: The main purpose of the system is to enable the Administrator or administrative staff to centrally manage the school's essential data. The system focuses on tasks such as adding, viewing, modifying, and deleting records of students and teachers.
The goal is to improve the efficiency of internal administrative processes and reduce reliance on paper records.

Who Will Use the System and How: The sole user of the system is the Administrator. The Administrator will primarily use the system to perform all data management and control functions.

How to Use: The Administrator will log in to the system and then access the main interface (Home). From this interface, they will be able to add a student, view student information, manage teachers, and perform other administrative functions, Partially controlling the educational and administrative workflow.

2. A list of main use-cases that represent the major functionalities of the system

- **Login to System**
Allows the administrator to enter a username and password to verify their identity and access system functions.

- **Add Student**
Allows the administrator to enter and save all personal and academic information of a new student in the database.

• Viwew/Search Student

Enables the administrator to retrieve and display the details of a specific student or search within existing student records.

• Modify/Delete Student

Allows the administrator to update the data of a registered student or completely remove their record from the system.

• Add Teacher

Allows the administrator to enter and save the data of a new teacher, with the possibility of adding some other options…

Actor: The use cases represent the main functions that will be performed by the Administrator (Admin) only.

Basic School Data Management System

LOG IN ------- <<include>> -------> **Verify password**

LOG IN <<extend>> -------> **Display login error**

Add students

students

Edit student

Show students information

Delete student

Add teachers

teachers

Edit teacher

Show teachers information

Delete teacher

Administrator