COMPUTER SCIENCE PROJECT SYNOPSIS

School Data Management Software: EdStudio

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Introduction

Abstract

Educational institutions have to store information about students and staff, as well as announcements and other administrative details. In the present day, a computer-based database management system efficiently handles this vast amount of data.

EdStudio is a school database management system. This software is used to store and access details about students, parents, and teachers, as well as assignments and announcements, in an organized and effective manner.

Purpose

The purpose of this system is to store and access details about students, parents, and teachers, as well as assignments and announcements, in an organized and effective manner.

Existing System

- Inefficient
- Time consuming process
- Misplacement/loss of data

Proposed System

• Organized data

Hardware And Software Specifications

Development Environment

Hardware:

• Laptop

Software:

- 1) Operating system
 - Windows
- 2) Programming language
 - Python 3.6
- 3) IDE
 - PyCharm
- 4) RDBMS
 - MySQL Community Server 8.0

Deployment Environment

• Laptop/PC

Project Design

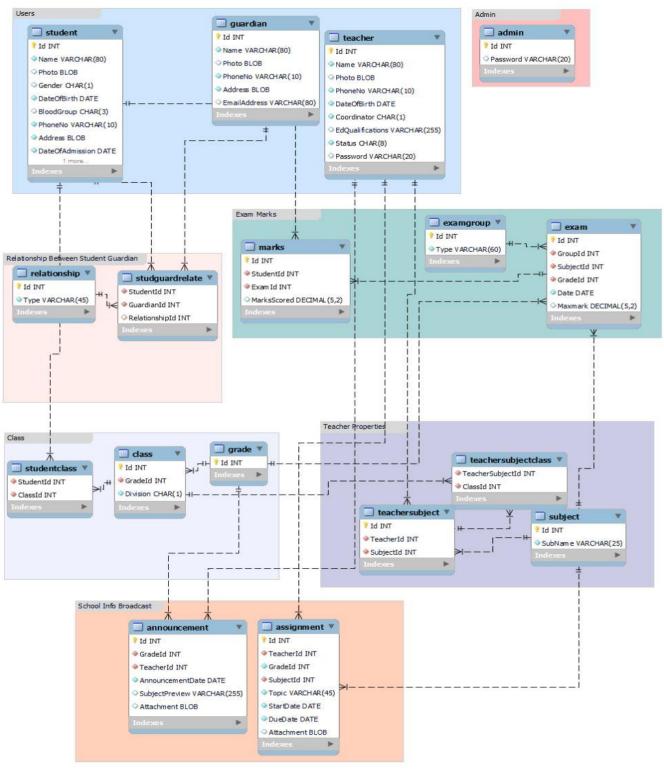
- 1. Modules
 - a. MySQL connector module (mysql.connector)

2. Data Flow Diagram EdStudio Administrator Teacher Student Enter option Enter option Enter option number: number: number: Option 1 Assignments Assignments Assignments View → View View Update Update Announcements Option 2 Announcements Announcements View View View Option 3 Test reccord Update Update View Option Teacher reccord Student reccord Option 4 Exit · View View Update Update Option 4 Student reccord Test reccord View View Update Update Option 5 Test reccord Exit View Update Option 6 Exit

3. Database Design Structure

a. Database: EdStudio

b. Tables:



Project Timeline Chart



Project Initiation

School Management System is chosen as project topic.

 Project is reviewed and approved by Teacher.



Data Collection and Organising June-July 2022

Information is selected and sorted.

- Selection of information required in project is done.
- The information is sorted into tables.



Coding User Interface September-October 2022

Coding of character user interface (CUI) begins.

- · 3 types of users have access:
- · Admir
- · Teacher
- · Student



Project Submission

Project is submitted to the Teacher.



- Requirements and basic design is decided.
- Project timeline is mapped out.



) Database created

The required database

containing 17 tables is

created using MySQL

connector and Python.

Testing and Bug-fixing

- · The CUI is tested for any bugs.
- · Errors found and removed.

Project Testing



Problem Scoping May 2022