***OBJECT ORIENTED PROGRAMMING\DATABASE MANAGEMENT SYSTEM***

# **(FINAL PROJECT)**

**Presented To:**

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**BS Artificial Intelligence (2nd Semester)**



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**Project Details:**

Project:

***School Management System***

**Tools Used:**

* **Python IDLE**
* **VS Code**
* **MYSQL Workbench**

**Description:**

School Management System is made by using TKINTER library which is Graphical User Interface library. The program is working by making modules . The first window will appear for login after login main lobby window will open from which you can select student registration, staff registration ,student fee management and staff payroll system.

**School Management System has following features.**

* Login System
* Student Registration
* Student Fee Management
* Staff Registration
* Staff Payroll Management

**OOP and Python Concept Used:**

* Abstraction
* Single Inheritance
* Multilevel Inheritance
* Exception Handling
* Classes and objects
* For Loop
* If Else Conditions

**Libraries Used:**

* From tkinter import \*
* From tkinter import messagebox, filedialog.
* Import docx
* from fpdf import FPDF
* import mysql.connector
* Import os, time.
* From datetime import date

**Fee Management System Features:**

* Student data can be fetched from student record.
* Receipt will be generating and can be display in the tkinter window.
* Receipt will be saved as pdf in Fee Receipt folder(automatically will be create when you run the program).
* Previous Month dues will be added in the next month dues.
* Previous Month dues will be cleared if parent pay the fee.
* Fee data will be saved in database.

**Payroll Management System Features:**

* Staff data will be fetched from staff record.
* There pays slip will generate.
* There is a loan and advance salary deduction system if staff get loan or advance salary.
* Receipt will be saved as pdf in Salary Receipt folder(auto create folder when program run)
* Pay slip data will be saved in data.

**Entity Relationship Model:**

**Diagram

Description automatically generated**

**Data Flow Diagram:**

**Diagram

Description automatically generated**

Graphical user interface, application

Description automatically generated

Graphical user interface

Description automatically generated

Graphical user interface

Description automatically generated

Graphical user interface, website

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface

Description automatically generated

Graphical user interface, application

Description automatically generated

**With Previous Dues Deduction**

Table

Description automatically generated

Graphical user interface, table

Description automatically generated with medium confidence

**With Loan and Advance Salary Deduction**

Graphical user interface, application

Description automatically generated