# School Report Card Management System

Python Project

01

02

# The Crew

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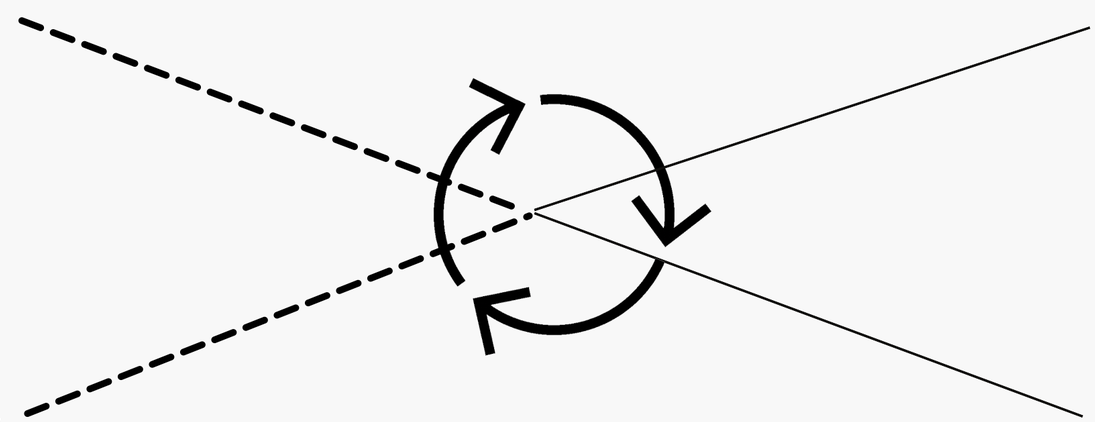

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# Abstract

This presentation introduces the functioning of a school report card management system which is a data-driven program that can be used by the school authorities. This program has four major components: grade, marking, storing student records and graphical representation of every student's progress. The implementation uses a few modules. The major part of this presentation will introduce how to use a database table and inner logic to handle user request by going through the implementation process.

# Modules Used in the Project

- **mysqlclient**

  .It add Python support and merges some pull requests. MySQLdb is an interface to the popular MySQL database server for Python.

- **CSV**

  The csv module implements classes to read and write tabular data in CSV format.

- **random**

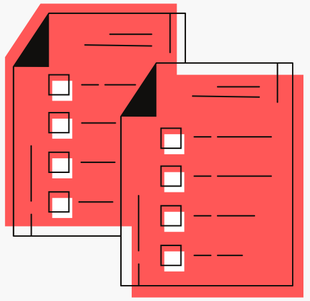
  Python Random module is an in-built module of Python which is used to generate random numbers.

- **matplotlib**

  Matplotlib is a comprehensive library for creating static, animated, and interactive visualizations in Python.

- **Tkinter**

  Tkinter is a pre-built framework in the Python standard library to create Graphical User interfaces (GUIs).



# An Overview

01

Create a database.

02

Store new admission details.

03

Modify existing details.

04

Delete records.

05

Fetch a particular record.

06

Display the entire database.

# An Overview

07

**Display student's data using a pie chart.**

08

**Marks to grade conversion.**

09

**Generate report card.**

10

**Display individual student's progress graphically.**

# Significance

## Basic limitations that we can overcome by practically applying the project.

-The new management system will integrate all basic functionalities.
-Instead of maintaining two different databases for 11th and 12th standard, you will only need to maintain a single database.
-The scalability of the new system will allow them to add more features to the system in future.
-Teachers only need to log into one system to accomplish the desired task. This will be more convenient and significantly improve their efficiency.

# METHOD USED.

01 Step 1: Creating a new database using mysqlclient.

02 Step 2: Passing the data to be stored as input into the SQL database.

03 Step 3: Displaying/storing the records for future reference.

# User Defined Functions

createdb()
Creates a new database.

modif()
Modifies existing info.

displ()
Displays a particular record.

graph()
Displays graphical data using matplotlib.

swrl()
Displays marksheet for all the students.

pag()
Displays performance analysis graph of a particular student

newadm()
Adds a new entry into the database.

delete()
Deletes an existing record.

display()
Displays all the records

marks_grade_calculation()
Adds marks record and calculates grades for each subject.

mos()
Displays marksheet for a particular student