Project Report

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Introduction :

Time management is very important in daily life, especially for students. Sometimes we plan our weekly schedule but we forget or cannot follow it because there is no proper system to store and check it.

So, to solve this problem, I created a simple Python project called Weekly Time Table Management System.

This project allows the user to store the weekly timetable, update any day if needed, and display the complete timetable anytime.

Objectives

The major objectives of this project are:

1- To digitize the attendance process

2 - To provide options to mark students as present or absent

3 - To allow storing and updating student names

4 - To generate attendance reports automatically

5 - To reduce manual work and improve record accuracy

Methodology

The project follows a structured software development approach:

1. Requirement Analysis:

Identified the need for an easy attendance tool.

2. Design:

Planned menu-based structure for user interaction.

3. Implementation:

Python programming language was used.

4. Testing:

Tested system using multiple names and attendance inputs.

5. Improvement:

Modified code to avoid repeated names and incorrect entries.

Technologies Used

Python programming language Concepts Applied Loops, Conditional Statements, Lists, Dictionaries, Functions Basic python functions.

Working of the System

When the program runs, a menu appears with the following options:

1. Add Students
2. Mark Attendance
3. Generate Attendance Report
4. View Existing Records
5. Exit

The system saves all attendance data in a CSV file and allows the user to view or update records.

Output Screenshots

Attach screenshots of running program, marking attendance, and report generation here.

📁 Folder: /screenshot

Results

The Smart Classroom Attendance Management System successfully:

Recorded and stored student attendance

Prevented duplicate names

Generated a readable attendance report

Provided a user-friendly interface

Applications

This project can be used in:

Schools

Colleges

Coaching centres

Training workshops

Online learning environments

Future Enhancements

In the future, the project can be improved by adding:

Face Recognition for automatic marking

Cloud storage integration

Attendance analytics

Mobile app interface

Conclusion

This project helped me understand the real-life applications of programming.

By completing it, I learned:

How to write Python programs

How to work with files and data storage

How to design a menu-based system

How software can solve real-world problems

The system works efficiently and helps simplify attendance management.

References

Python Official Documentation

Vityarthi classes

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