**Program Description**

This program is designed to manage employee attendance and calculate payment based on hour’s worked.it allows employees to clock in and clock out, and at the end of the day, the system generate a report of hours worked and calculates the corresponding payment.

**Documentation:**

**Program Overview:**

The Employee Attendance and Payment System provides a simple user interface for employee attendance and calculate payment. This system is designed to help make easy the process of tracking employee work hours and ensure accurate payment

**System Requirements:**

* Operating System: Windows 10 and above
* Memory: Minimum 2GB RAM
* Processor: 1GHs processer or faster
* Software: Python

**User Manual:**

The program will come with a “readme” file that will guide the users through the installation, setup and usage of the program including how to add employee, clock-in and clock-out and generate reports

**Program Structure Components:**

* Main Menu: The main interface where users can select options to add employees, clock in, clock out, generate daily reports and exits the program.
* Employee Management Module: This module allows new employees to be added to the system, by their ID, name, and hourly wage.
* Attendance Tracking Module: Employees can clock in and out.
* Payroll Calculation Module: Calculates the total hours worked and the corresponding payment based on the hourly wage.

**Program Logical Flow Components:**

* User Input: The program ask users to enter employee details and manage attendance.
* Clocking In/Out: employees select options to clock in or out, and the program records the timestamps.
* Report Generation: At the end of the day, the program calculates total hours worked for each employee and generates a report.
* Error Handling: The program includes error handling to manage scenarios such as attempting to clock out without clocking in

**Data Structures and Access Method Components:**

* Employee Data: Employee details, including ID, name, and hourly wage, are stored in a dictionary.
* Attendance Data: A list stores clock-in and clock-out timestamps for each employee.
* Calculation Results: the total hours worked and the corresponding payment for each employee are stored.

**Program Design:**

* Main Menu Design: The main interface where users can access all functionalities, including adding employees, clocking in/out, and generating reports.
* Employee Management Design: Allows users to input employee details and add them to the system.
* Attendance Design: Employees can clock in and out, with the system recording the timestamps.
* Report Design: Displays the total hours worked and the calculated payment for each employee.

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**Desk Checking:**

The program design will be desk-checked to ensure it meets all specifications and requirements