

PROJECT 7: STAFFY – Employee Attendance & Payroll Tracker

Description

A lightweight HR management CLI system to track employee attendance, working hours, and generate payroll summaries.

Scenario

Small companies or teams can use this to mark attendance daily and automatically calculate salaries based on working days or hours.

Menu

===== STAFFY - Employee Attendance & Payroll Tracker =====

1. Add Employee
2. Mark Attendance
3. Record Working Hours
4. View Monthly Attendance Report
5. Calculate Salary
6. View All Employees
7. Search Employee by Name or ID
8. Update Employee Details
9. Delete Employee Record
10. Exit

Enter your choice:

Functions Needed

```
def add_employee(emp_id, name, position, base_salary)
def mark_attendance(emp_id, date, status)
def record_work_hours(emp_id, date, hours)
def view_monthly_attendance(emp_id, month)
def calculate_salary(emp_id, month)
def view_all_employees()
def search_employee(keyword)
def update_employee(emp_id, field, new_value)
def delete_employee(emp_id)
```

Sample Output

```
=== PAYROLL SUMMARY === Employee: Ravi Kumar (E105) Position: Software Engineer Month:
October 2025 Days Present: 22/26 Total Hours: 176 Base Salary: ₹60,000 Bonus (for full
attendance): ₹2,000 Deductions: ₹0 Net Pay: ₹62,000 Status: [X] Processed
```

Edge Cases

Employee not found during salary calculation
Attendance missing for multiple days
Invalid date or duplicate attendance entry
Negative working hours
Deleting an employee who still has unpaid salary