

Employee Management System

Requirement Specification

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Introduction

This file aims to provide details on the requirement specifications for the Employee Management System project. My EMS project is a bespoke one.

My EMS enables a company to add, manage, search, filter and sort employees.

To add: Names of Employees, Department, Salary, Performance Rate and Years of Experience.

To Search: Search an Employee by Name.

To Sort: Sort by Department, Salary, Performance Rate and Experience, getting the highest top 5 paid Employees.

To Manage: Salary raise when Performance Rate is greater than 4.5; Calculating the average salary of a department; Updating an Employees Name, Department, Performance Rate, and Years of Experience; Deleting an Employee.

To Delete: An Employee details can be deleted.

Functional Requirements

Authentication

This system has no form of authentication. The company just logs in and starts with the employee creation.

Employee Details

An Employee has a unique ID, Name, Department, Salary, Performance Rate, Years of Experience and whether Active or Not.

An Employee's Name, Department, Salary, Performance Rate, Years of Experience and whether Active or Not can be updated.

An Employee can be deleted.

Employee Management System (My EMS)

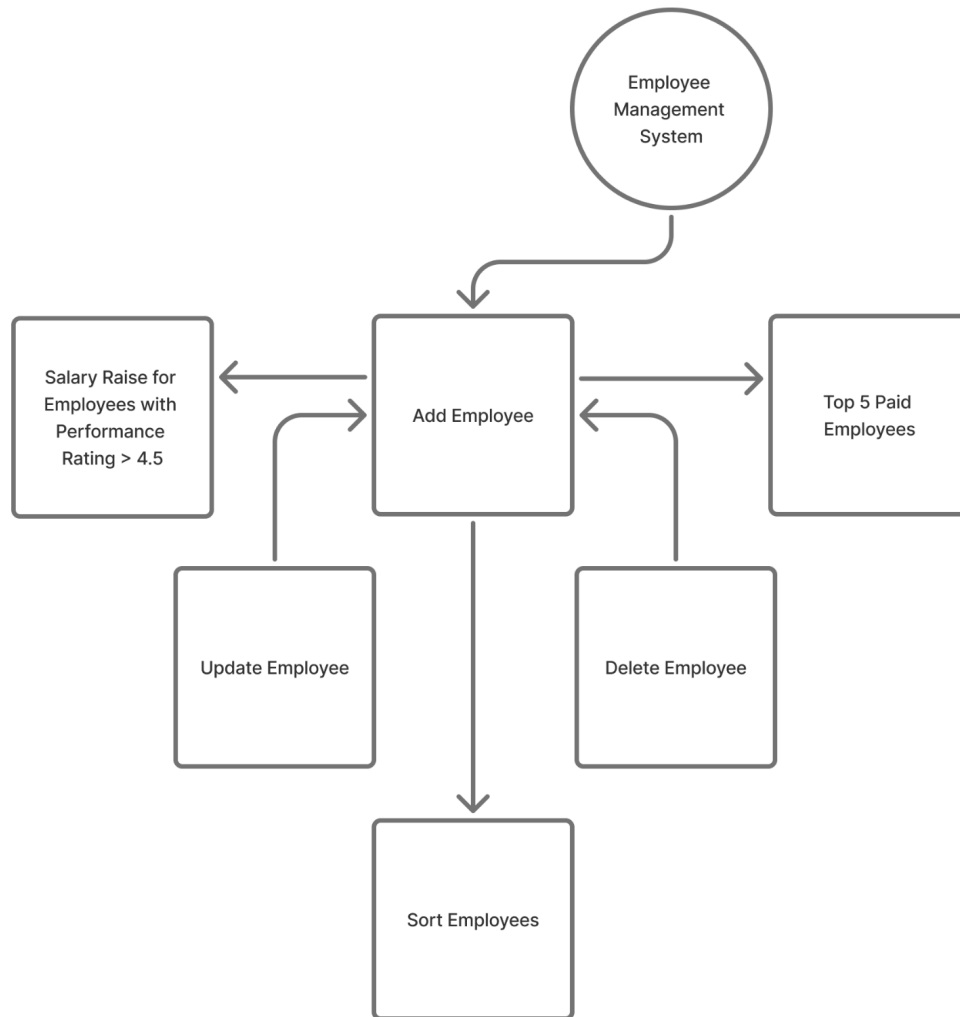


Figure 1: Employee Management System

Non-Functional Requirements

Data Requirements

The system must have the non-functional requirements that conform to the ones detailed in this section.

Data stored on the system

There is no data stored on the system. When you close the console after creating an employee and restart the console, you lose all the employees created and all the actions performed.

Signing up

The Name and Department section allows only letters to be entered. The Salary, Performance rate and Years of Experience also allows only numeric inputs.

Performance Requirements

The system must be able to:

- Cope with a minimum of 100-600 account creation per minute.
- Store and process commands.

Constraints

Hardware

The system must run on a system with a minimum hardware specifications of:

- 1 GB RAM
- Intel Core i3 6th Generation and any equivalent or higher
- 10 GB or more free disk space

Glossary

Performance Rate: Measured from 0.0 to 5.0. An employee would have to gain 4.51 and above to qualify for Salary Raise.

Salary Raise: Increasing the salary of an employee with 4.51 and above by 10%.