

# Employee Management Application

## Overview

The **Employee Management Application** is a Java-based console program designed to help HR personnel and managers manage employee records efficiently. It allows adding, updating, viewing, and deleting employee details, all stored in memory.

## Features

- **Add Employee:** Add a new employee with ID, name, age, designation, department, and salary.
- **View Employee:** Retrieve employee details using their ID.
- **Update Employee:** Modify an employee's information such as name and salary.
- **Delete Employee:** Remove an employee from the system.
- **View All Employees:** Display a list of all employees.
- **Exit:** Close the application.

## Requirements

- **Java Version:** JDK 8 or higher
- **Dependencies:** None (Uses standard Java libraries)
- **Operating System:** Platform-independent (Windows, macOS, Linux)
- **IDE (Optional):** Eclipse, IntelliJ IDEA, or VS Code

## Installation & Setup

1. **Download the source files** or clone the repository.
2. **Compile the Java files:**
3. `javac EmployeeManagementApp.java`
4. **Run the application:**
5. `java EmployeeManagementApp`

## How to Use

1. Upon launching, a menu appears with available operations.
2. Enter the number corresponding to the operation you want to perform.

3. Follow the prompts to input necessary employee details.
4. Choose option **6** to exit the program.

### **Code Structure**

- **Employee.java:** Defines the Employee class with attributes and methods.
- **EmployeeService.java:** Handles all employee-related operations.
- **Main.java:** Contains the menu-driven interface.

### **Example Run**

\*\*\* Employee Management System \*\*\*

1. Add Employee
2. View Employee
3. Update Employee
4. Delete Employee
5. View All Employees
6. Exit

Enter your choice: 1

Enter ID: 105

Enter Name: Alice

Enter Age: 30

Enter Designation: Manager

Enter Department: HR

Enter Salary: 80000

Employee added successfully!

### **Notes**

- Employee data is stored **in-memory** and is lost when the application exits.
- Ensure valid inputs to prevent errors.

### **Author**

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