Part A: Micro-Project Proposal

Employee Record Management System

1. Introduction:

To develop employee record management system which will be able to add ,update ,display, delete and search employee related information. In getData method we accept the employee id, employee name, contact number, age, designation and salary. In search method we enter employee id that we want to search if it is present in the record then display the information of entered employee id. In update method we enter the employee id that we want to update and also accept the updated information.. In the delete method we enter the employee id whose record we want to delete.

2. Aims/Benefits of the Micro-Project

To develop employee record management system which will be able to add, update, display and search employee information.

3. Course Outcomes Addressed:

a) Develop programs using Object Oriented Methodology in Java.

4. Literature Review:

a. Employee Record Management System Using Java and MySQL by Deepak Saini and Nitesh Kumar (2020): This paper presents the design and implementation of an ERMS in Java that uses JavaFX for the user interface and MySQL for the database management system. The system includes features such as employee registration, attendance tracking, leave management, and salary processing. The system was tested, and the results showed that the system is efficient and user-friendly.

b. Java-Based Human Resource Management System by R.N. Saranya, A. Santhoshkumar, and S. Saravanan (2019): This paper presents the design and implementation of a Java-based HRMS that includes modules for employee information management, attendance tracking, leave management, and payroll processing. The authors used Java Server Faces (JSF) and MySQL for the web-based interface and database management system, respectively. The system's performance was evaluated, and the results showed that the system is efficient and user-friendly.

c. Employee Management System in Java by Amit Kumar (2018): This paper proposes an ERMS in Java that uses Java Server Pages (JSP) and MySQL for the web-based interface and database management system, respectively. The system includes features such as employee registration, attendance tracking, and leave management. The system's performance was evaluated, and the results showed that the system is scalable and efficient.

d. Java Employee Record Management System (JERMS) by Anuja P. and Chavan S. (2016): This paper presents the design and implementation of JERMS, a Java-based ERMS. The system includes modules for managing employee details, salary information, attendance records, and performance evaluation. The authors used Java Swing for the user interface and MySQL for the database management system. The system was tested and evaluated, and the results showed that JERMS is a user-friendly and efficient ERMS.

5. Proposed Methodology:

Employee record management system, we accept display search and update the data is given below.

Step 1:- Firstly, Enter numbers of records you want to store.

Step 2:- Display the menu 1. Accept 2. Display 3. Search 4. Update 5. Delete 6. Exit

Step 3:- Enter your choice.

Step 4:- If choice 1 then enter the details of employee that you enter the number of records.

If choice 2 then display all records in tabular format.

If choice 3 then enter the employee id whose you want to search the record.

If choice 4 then enter the employee id you want to update.

If choice 5 then enter the employee id you want to delete.

If choice 6 then exit the program.

6. Resources Required:

Sr. No.	Name of Resource/Material	Specification	Quantity	Remark
1	Computer System	**OS:** Windows 11 (64 bit) **Processor:** Intel i7 11th Generation **RAM:** 16 GB	1	-
2	Software	jdk 11.0	1	-

7. Action Plan:

Sr. No.	Details of Activity	Planned Start Date	Planned Finish Date	Name of Responsible Team Members
1	Data Collection			Deore Samarthya Ravindra
2	Analysis			Gangurde Suprabha Dinesh
3	Design			Jain Ekta Vinod
4	Development (Program Coding)			Makhija Dhruv Harish
5	Report Writing			Patil Rasika Sunil