

Part A: Micro-Project Proposal

Employee Record Management System

1. Introduction:

Our Employee Record Management System, built with Python, offers a pragmatic solution for businesses in need of an efficient and user-friendly approach to manage their employee records. Equipped with features to add, view, update, and delete employee details, our application enables organizations to uphold precise records and make well-informed HR decisions. With ongoing development, we strive to augment its capabilities and foster better practices in workforce management.

2. Aims/Benefits of the Micro-Project

To develop employee record management system using XAMPP Database, Tkinter and MySQL components which will be able to add, update, view and delete employee related information.

3. Course Outcomes Addressed:

- a) Develop Python program to demonstrate use of Operators
- b) Perform operations on data structures in Python.
- c) Develop functions for given problem

4. Proposed Methodology:

In Employee Record Management System, we accept, display, update and delete the data from the database.

Home Page with a Welcome message, Add Employee Details Button, View Employee Details Button, Update Employee Details button and an Exit Button.

To Add an Employee click on Add Employee button, then enter the details of Employee. Then enter Employee Details, enter Employee ID, Name, Phone Number, Email Address, Age, Gender, Designation and Salary of Employee and click on Submit button. If all the details are valid then data will be saved successfully in the Database.

To View all Employee Details, click on View Employee Details. Once clicked, all the Employee Details in the Database will be shown in Table Format.

To Update Details, click on Update Employee Details. Then enter the Employee ID of Employee whose details you want to edit. If the employee with entered employee id does not exist in the database, a message box of “Employee Record does not exists” will be displayed. If the entered employee id is valid then select the field you want to update, you can select a field from Name, Phone Number, Email Address, Age, Designation and Salary. After selecting field, enter the details and click on submit button, if the details are valid then it will be updated/saved in the database else an invalid message will be displayed.

To Delete any Employee’s Details, click on Delete Employee button and enter the Employee ID of employee. If Employee with entered employee id exist in the database then it’s all details will be deleted, else an “Employee does not exist” message will be displayed.

To Exit from the Employee Management System, click on Exit button.

5. Resources Required:

Sr. no	Name of resources	Specification	Quantity	Remark
1	Computer system	Processor: Intel(R) Pentium(R) Dual CPU E2140@1.60GHz 1.60GHz RAM: 512 MB	1	-
2	Operating System	OS: Windows 7(32bit)	1	-

6. Action Plan:

Sr. No.	Details of Activity	Planned Start Date	Planned Finish Date	Name of Responsible Team Members
1	Data Collection	08/01/2024	27/01/2024	Badgujar Mohit Hemant
2	Analysis	29/01/2024	17/02/2024	Bhatt Atharva Yogesh
3	Design	19/02/2024	09/03/2024	Deore Samarthya Ravindra
4	Development	11/03/2024	23/03/2024	Makhija Dhruv Harish
5	Report Writing	26/03/2024	28/03/2024	Deore Samarthya Ravindra