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| **Total Marks:** | **7.5** |
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**Mid-term Project Report**

**Employee Management System**

**Submitted To: Sir Imran**

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1. **Introduction:**

The Employee Management System is designed to streamline and automate the process of managing employee records within an organization. This system provides functionalities such as adding new employees, updating their salary, searching for employees based on their ID, deleting employees, and printing the entire list of employees.

**2. Objective:**

The primary objective of this project is to create an efficient and user-friendly system for managing employee data. By using this system, organizations can easily add, update, search, and delete employee records, thus improving overall management efficiency and reducing manual workload.

**3. Methodology:**

The Employee Management System is implemented in C++ programming language. The system consists of two main classes: Employee and EmployeeManagement.

* **Employee Class:**

This class represents an individual employee and contains attributes such as name, contact number, salary, employee ID, and CNIC.

It provides constructors to initialize the attributes of an employee object.

* **Employee Management Class:**

This class manages a collection of employee objects and provides various operations on them.

It includes methods for adding a new employee, updating employee salary, searching for an employee by ID, deleting an employee, and printing the list of all employees.

**4. Functionality:**

* **Adding a New Employee:**

The user can add a new employee by providing their name, contact number, salary, employee ID, and CNIC.

The addEmployee method in the EmployeeManagement class is responsible for adding a new employee to the system.

* **Updating Employee Salary:**

The user can update the salary of an existing employee by specifying their name and the new salary.

The updateSalary method in the EmployeeManagement class is used to update the salary of an employee.

* **Searching for an Employee:**

The user can search for an employee by entering their employee ID.

The searchEmployee method in the EmployeeManagement class is utilized to search for an employee based on their ID.

* **Deleting an Employee:**

The user can delete an existing employee from the system by providing their name.

The deleteEmployee method in the EmployeeManagement class removes the specified employee from the list.

* **Printing All Employees:**

The user can print the details of all employees currently stored in the system.

The print method in the EmployeeManagement class displays the information of each employee in the list.

**5. Results:**

The Employee Management System provides an efficient way to manage employee records within an organization. By utilizing the functionalities offered by this system, users can easily add, update, search, delete, and view employee details.

**6. Conclusion:**

In conclusion, the Employee Management System offers a comprehensive solution for handling employee data. It simplifies the process of managing employee records and contributes to improved organizational efficiency. With its user-friendly interface and robust functionalities, this system serves as a valuable tool for HR departments and organizations.

**Outputs:**

The End