**Capital University of Science & Technology**

**Term Project Proposal**

Department of Electrical and Computer Engineering

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| **Project Title** | | Payroll System for Employee Salaries | |
| **Course Title** | | Application of information and communication technologies lab | |
| **Sr. No.** | **Student Name** | | **Registration Number** |
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| **Introduction:**  A basic payroll system in C++ is designed to automate employee salary management. It typically involves capturing employee details like ID, name, designation, and hours worked or monthly salary. The program calculates gross pay by considering allowances and deductions, such as taxes or benefits. It can store employee records, generate pay slips, and display summarized salary reports. By using classes and objects, the program ensures data encapsulation and efficient management of payroll operations. This system simplifies salary calculations, reduces manual errors, and enhances data organization**.**  **Objectives:**  **1.Employee Data Management**   * Maintain a database of employee information, including ID, name, department, designation, and salary structure.   **2. Simplify Pay Slip Generation**   * Generate detailed pay slips for employees, showing a breakdown of earnings, deductions, and net salary   **3.Enhance Accuracy and Efficiency**   * Minimize manual errors in payroll calculations and improve processing speed.   **4. Provide Reports and Summaries**   * Offer features to generate and display payroll summaries or detailed reports for administrative purposes.   **5. Automate Payroll Calculations**   * Calculate gross pay, deductions, and net pay for employees based on input parameters like working hours or fixed salary.   **6. Data Security and Confidentiality**   * Safeguard employee data and salary details through proper encapsulation and controlled access.   **Applications:**  1. Provides an efficient payroll management solution for small and medium businesses with limited resources.  2. Handles salary management for staff and faculty in schools, colleges, and universities.  3. Simplifies payroll processing for large corporations with numerous employees and complex salary structures.  4. Helps manage payments for freelancers and contractors based on hours worked or project milestones.  5. Supports payroll for part-time, full-time, and seasonal employees, commonly found in retail stores and hospitality businesses.  6. Offers a cost-effective way to handle employee payroll during the initial stages of a business.  7. Facilitates accurate salary calculations and maintains records for financial audits and compliance.  **Block Diagram:** |

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| **Instructor Remarks** | **Student 1 Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Student 2 Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
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| **Instructor’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |