



**Ghulam Ishaq Khan Institute Of Engineering Sciences and  
Technology, Topi**

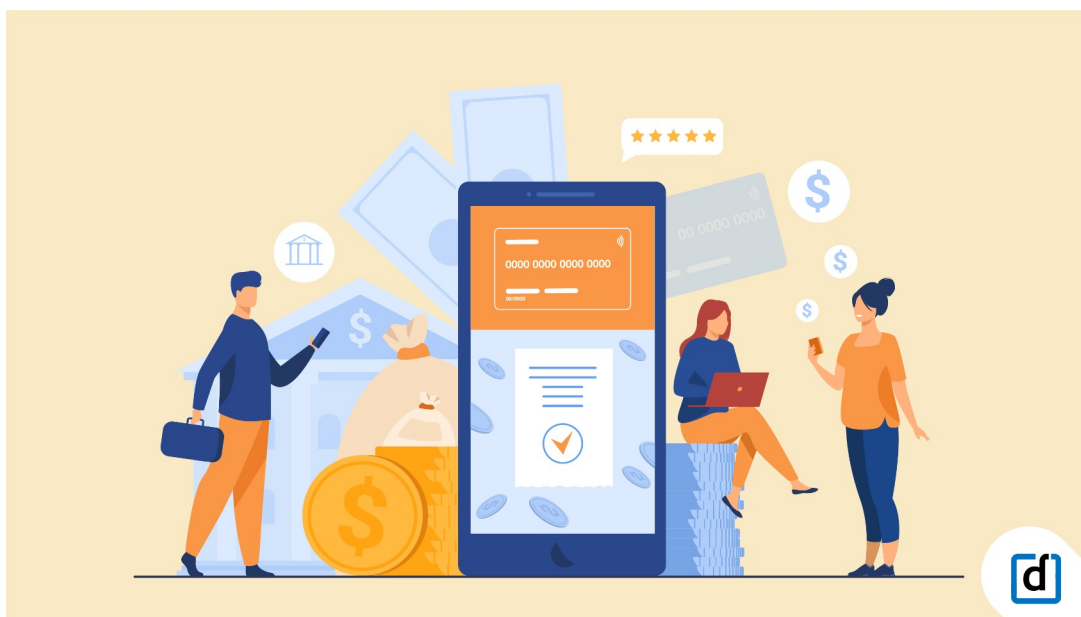
**Course:** CS101L – Intro To Computing & AI  
Lab

**Semester Project**

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**Instructor:** Engr. Usama Manzoor

## Payroll Management System



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## **Problem Statement:**

Running payroll is one of the most important responsibilities for business owners. Put simply, a payroll management system is the process by which employers pay wages to their employees. Employers with a few employees may opt to manage payroll using a manual method, such as spreadsheets. The potential cost savings, however, are usually outweighed by the pitfalls. Manual DIY processes *increase the risk of costly mistakes, cause limited payroll transparency for employees* and take time away from activities that drive business growth. Without a payroll management system, companies can face a multitude of issues that impact both operational efficiency and employee satisfaction. In a country like Pakistan, where economic growth is of utmost importance, issues like these need to be addressed, discussed and worked upon.

## **Proposed Solution:**

The payroll management system program will be structured in such a way that it will:

- i. Store information such as employee ID, designation, department, and salary structure;
- ii. Calculate and deduct applicable taxes like income tax, social security, or other local taxes;
- iii. Create payslips or salary slips for employees;
- iv. Edit the information of employees;
- v. Access the employee details;

It should be noted that the entire program is being created to simulate and streamline the processes in view of the employer.

## **Inputs:**

- i. General Employee Info (ID, Name, Designation, Date Of Joining)
- ii. Salary Structure (Monthly Salary, Allowances, Deductions)
- iii. Work Details (Total Working Days, Attendance, Overtime)
- iv. Operation-Based Inputs (Add/View/Edit Employee Details, Generate Payslip, Terminate Program)
- v. Confirmation Prompts

## **Outputs:**

- i. Error/Success Messages
- ii. Employee Details
- iii. Payslip/Salary slips
- iv. Main Menu
- v. Exit Message (“Thank You For Using Our Payroll Management System!”)

## **Tools & Libraries:**

Arrays (1D or 2D arrays), (***File Handling***), Functions, Loops, if-statements, switch-case statements

<iostream>, <cmath>, <fstream>