

**A PROJECT REPORT
ON
PAYROLL MANAGEMENT SYSTEM
USING C++**

Submitted in partial fulfillment of the requirement for the III semester

Bachelor of Technology

By

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DECLARATION

I, **Shashwat Mishra** student of **B-tech, Semester 3**, Department of Computer Science and Engineering, Graphic Era Deemed University, Dehradun, declare that the technical project work entitled “Payroll Management System” has been carried out by me and submitted in partial fulfillment of the course requirements for the award of degree in B- tech of **Graphic Era Deemed University** during the academic year **2021-2022**. The matter embodied in this synopsis has not been submitted to any other university or institution for the award of any other degree or diploma.

Date: 24/02/21



Graphic Era
(Deemed to be University)
Accredited by NAAC with Grade A

CERTIFICATE

This is to certify that the project report entitled “Payroll Management System” is a bonafide project work carried out by Shashwat Mishra , roll no- 2017374. in partial fulfillment of award of degree of B- tech of Graphic Era Deemed University, Dehradun during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated. The project has been approved as it satisfies the academic requirements associated with the degree mentioned.

Mr. Kireet Joshi

ACKNOWLEDGEMENT

Here by I am submitting the project report on “**Payroll Management System by C++**” as per the scheme of Graphic Era Deemed University, Dehradun.

I would like to express my sincere gratitude to **Mr. Kireet Joshi** for providing a congenial environment to work in and carry out our project.

Finally I am very much thankful to all the faculty members of the Department of Computer Science and Technology, friends and our parents for their constant encouragement, support and help throughout the period of project conduction.

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PAYROLL MANAGEMENT SYSTEM

By : Shashwat Mishra

PROBLEM STATEMENT

PAYROLL MANAGEMENT SYSTEM-

It may be difficult to decide which system to choose, but there are some factors to keep in mind when deciding. First, analyze the size of your business and decide how much you are willing to spend on payroll processing.

While it is possible for smaller businesses to handle payroll duties in-house through a manual process, much time can be wasted while attempting to calculate everything correctly. One miscalculation and the business owner could find themselves in legal or financial trouble. Mid-sized companies with up to employers benefit, by investing in a payroll system.

MOTIVATION

The main motivation of this project is to understand the payroll system completely. It enables its user to perform all the operations regarding a payroll system like to add the new records ,modify the existing record ,etc.

It takes care of the task of data storage such as addition , modification and deletion of employee records.

.User can see the list of records of all the employees and can also inquire about the records of individual employee

.The employee code is incremented automatically as one add new members.

.Salary slip is generated in required format.

INTRODUCTION

Built as a large, complex and effective program, Payroll management system project in C++ is a console application without the use of graphics. The project has multiple classes and sub-classes with numerous features within them.

A payroll system is a software designed to organize all the tasks of employee payment and the filing of employee taxes. These tasks can include keeping track of hours. Calculating wages, withholding taxes and deductions, printing and delivering cheques and paying employment taxes to the government.

The Payroll Management System deals with the financial aspects of employee's salary, allowances, deductions, gross pay, net pay, etc. and generation of pay-slips for a specific period. The outstanding benefit of Payroll Management System is its easy implement other advantages of Payroll Management System and its extensive features and report

SYSTEM REQUIREMENTS

Software Requirements

Operating system : Windows Xp or Later versions of windows

IDE : Dev C++

Hardware Requirements

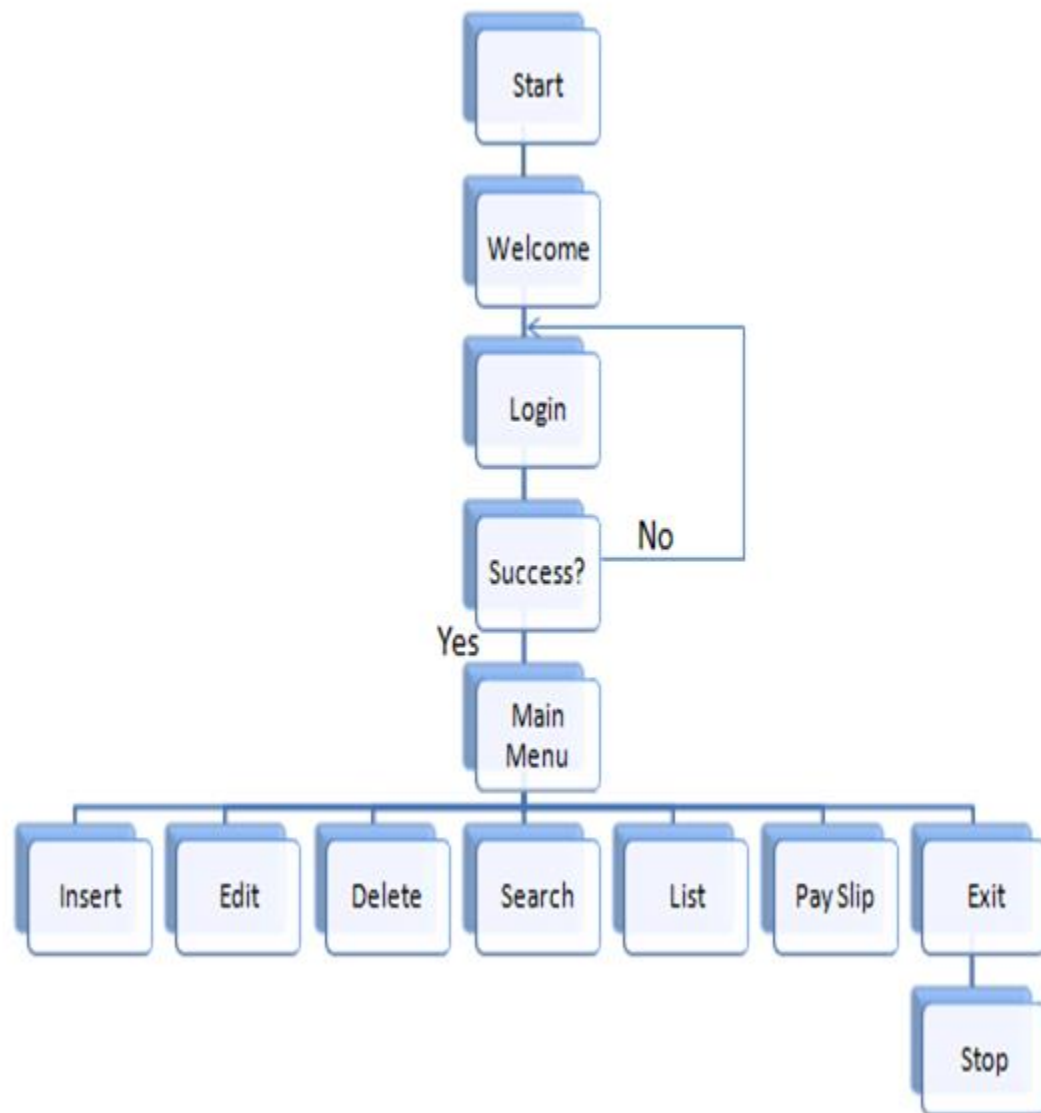
Processor : Intel Pentium core or later versions

Hard Disc : 120GB

RAM : 256 MB or More

ARCHITECTURE

SYSTEM ARCHITECTURE



METHODOLOGY

Admin Login Module

Here in this module call, user is prompted to enter the login credentials. The Login Module is a portal that allows users to type a user name and password to login. This module is no longer available to users after they have logged in. The Login Module appears to users next to the introduction module.

Data Entry Module

After you selected data entry from the main menu you land on this screen. In this module, Data of the employee are inserted. The Fields required here are Name, Id of the employee, Designation, Age, Years of experience, No. of working hours, Loan Status if any.

All the required data is processed and the salary, earnings and deductions of the employee are calculated and finally stored in the files for permanent storage.

Storing and Retrieving Data Records Module

Records of all the employees are to be maintained and the records are stored in Files and the information is retrieved from the files. All the Records are separated by new lines, and each field of an individual record is separated by 'tab'.

IMPLEMENTATION

WORKING PROCEDURE

STEP 1

Main function is executed first and the control to the followed by code.

The function 'intro()' got executed and the welcome message is displayed and when the user proceed to the next step by pressing any key.

STEP 2

User prompted with a login screen here and a user with valid credentials can have the access to the software.

STEP 3

After the user with the valid credentials logged in, the data of previous employee records are retrieved

STEP 4

After the user with the valid credentials logged in and successful retrieval, the user land on the home screen (the Main menu), and based on the choice of the user he land on the requested screen.

STEP 5

After the job done, all the modified or created data is stored in the files and the software is successfully exited.

CONCLUSION AND FUTURE SCOPE

The delivered system “PAYROLL MANAGEMENT SYSTEM” software developed for a company has been designed to achieve maximum efficiency and reduce the time taken to handle the payroll activity. It is designed to replace an existing manual record system thereby reducing time taken for calculations and for storing data. The system used C++ as front end.

The system is strong enough to withstand regressive daily operations under conditions where the data is cleaned over a certain time of span. The implementation of the system in the organization will considerably reduce data entry, time and also provide readily calculated reports.

It provides Automation of the entire system improves the efficiency, it provides a friendly Interface which proves to be better when compared to the existing system updating of information becomes so easier.

The System has adequate scope for modification in future if it is necessary.

FUTURE SCOPE

- Continuous tracking of their activities within the company of every employee can be provided with their individual login credentials.
- Auto update of the details like bank loan update can be provided.
- Administration control over the software is to be improved.

Ex: Administration can able to add the employee credentials such that the employee can know their status and companies administration legally.

- Databases can be used for easier and efficient access.
- The proposed system is capable of handling only 100 employee records and can be improved.

REFERENCES

Textbook References

- Let Us C By Yashavant Kanetkar.
- C Programming A Modern Approach By K.N.King.
- Head First C By David Griffiths.
- Programming Principles and Practice Using C++ By Bjarne Stroustrup.

Other References

- 1) <https://www.Stackoverflow.com>
- 2) <https://www.Tutorialspoint.com>
- 3) <https://www.Geekforgeeks.com>