

APPENDIX 1

**PAYROLL
MANAGEMENT
SYSTEM**

END TERM REPORT

by

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Section: K19PT_A

Roll Numbers: 30 , 33 , 32



**Department of Intelligent Systems,
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APPENDIX 2

Student Declaration

This is to declare that this report has been written by us. No part of the report is copied from other sources. All information included from other sources have been duly acknowledged. We aver that if any part of the report is found to be copied, we are shall take full responsibility for it.

Signature:

Name: Kapil, Shailendra, Feras.

Roll.No: 30, 33, 32.

Place: Jalandhar , Punjab , India

Date: 10/31/2020

APPENDIX 3

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APPENDIX 4

BONAFIDE CERTIFICATE

Certified that this project report “ PAYROLL MANAGEMENT SYSTEM” is the bonafide work of “Kapil Poudel , Shailendra Pradhan , Feras Adel Ali Ahmed Al Farzai” who carried out the project work under my supervision.

<<Name of supervisor:

Dr. Dhanpratap Singh>>

<<Academic Designation:

Project Leader>>

<<ID of Supervisor:

25706>>

<<Department of Supervisor:

Intelligent Systems>>

1. BACKGROUND AND OBJECTIVES OF PROJECT ASSIGNED

1.1 Introductory Description

A payroll system is a software designed to organize all the task of employee payment and the filling of employee taxes. These tasks can include keeping track of hours , calculating wadges , withholdings taxes , and deduction , printing and delevring checks and paying employee taxes to the government.

Payroll software often requires very little input from the employer. The employer require to input employee wage and information.then the software calculate the information and performs withholdings automically . Most payroll software is automically update whenever a law changes and will remind employer when to file various tax forms.

1.2 Background

Payroll Application has been designed to for the purpose of maintaining details of various allowances and deductions that need to be given to the employees of the organization. Also, it generates the salary Sheet of the employees of the organization that assists the accounts department in many ways. Payroll is a window Application which is used to maintain the Employee details of the organization or concern in different places; this provides each employee details with unique information. Admin plays the main roll to maintain the activities of the employees, client part takes lesser activities, and this system is user friendly GUI based application that will automate the day to day activities of the employees who are working in the concern. An application for completely automating the different activities of the various departments or sections of the employees is processed. Payroll provides database activities each and every records of the employee are maintained in the database, so all the data are retrieved easily and faster. As the means of administrator point of view, the admin person have the full rights to make decisions like who are all the users and creating the statuses, views and modify

1.3 Motivation

A payroll management system is a tool - predominantly a software program - that enables your business to handle all your employee's financial records in a hassle-free, automated fashion. This includes employee's salaries, bonuses, deductions, net pay, and generation of pay-slips for a specific period.

As you would have already realised, your business activities are primarily divided into two broad categories: the macro and the micro.

The macro here refers to the broader and big picture stuff. These are the activities that aid the long-term vision of your organisation. Your business development strategy, sales, revenue, cash flow, etc., fall under this category.

The micro refers to the everyday administrative chores that fuel the day-to-day operations of your business. Although these tasks seem mundane and repetitive, they are just as important to keep your business running like a well-oiled machine.

By having a payroll process in place, you are essentially automating a few of those micro

administrative tasks so that you have the mental bandwidth to focus on the macro.

1.4 Outcome of Project

“Payroll Management System” software developed has been designed to achieve maximum efficiency and reduce the time taken to handle the Payroll activity. The implementation of the system in the organization will considerably reduce data entry, time and also provide readily calculated reports.

The payroll management system helps to efficiently store the details of a employee and also manage the monthly salary reports of a employee depending on the number of days the employee has worked or skipped the office days.

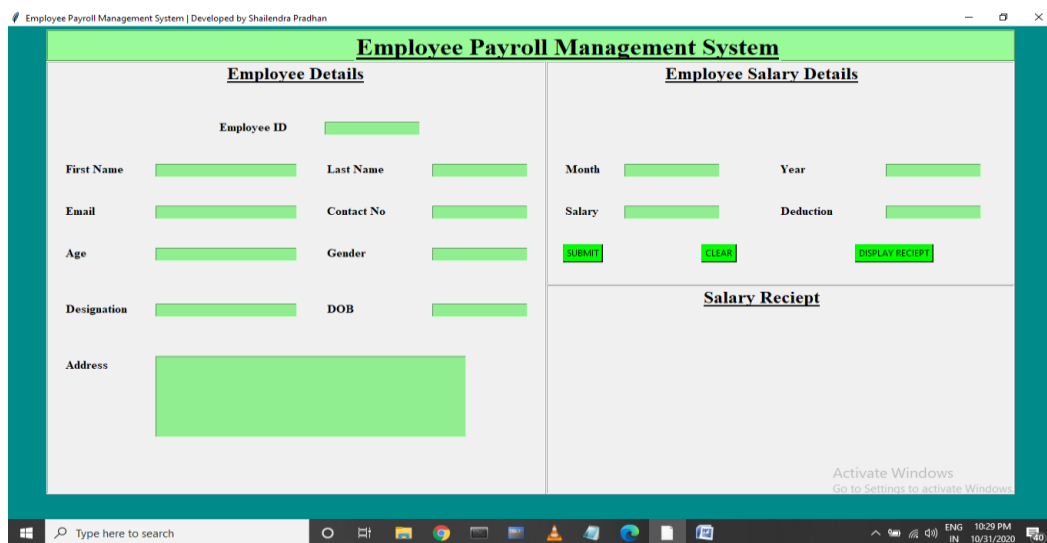
Payroll Application has been designed to for the purpose of maintaining details of various allowances and deductions that need to be given to the employees of the organization. Also, it generates the salary Sheet of the employees of the organization that assists the accounts department in many ways. Payroll is a window Application which is used to maintain the Employee details of the organization or concern in different places; this provides each employee details with unique information. Admin plays the main roll to maintain the activities of the employees, client part takes lesser activities, and this system is user friendly GUI based application that will automate the day to day activities of the employees who are working in the concern. An application for completely automating the different activities of the various departments or sections of the employees is processed. Payroll provides database activities each and every records of the employee are maintained in the database, so all the data are retrieved easily and faster. As the means of administrator point of view, the admin person have the full rights to make decisions like who are all the users and creating the statuses, views and modify

2. DESCRIPTION OF PROJECT

This project is helpful in calculating the salary of each employee and it also focus on attendance of each employee and the no of leaves taken monthly/year. There is also checking a salary report facility at any time so it does not cause any miscalculation at the time of payment. In this payroll system there are many details to fill such as employee details are: first name, last name, email, contact no, age, gender, designation, DOB, address. And employee salary details are: month, year, salary, duration. There are some restriction while admin have fulfill when fill the form.

2.1 Main Form

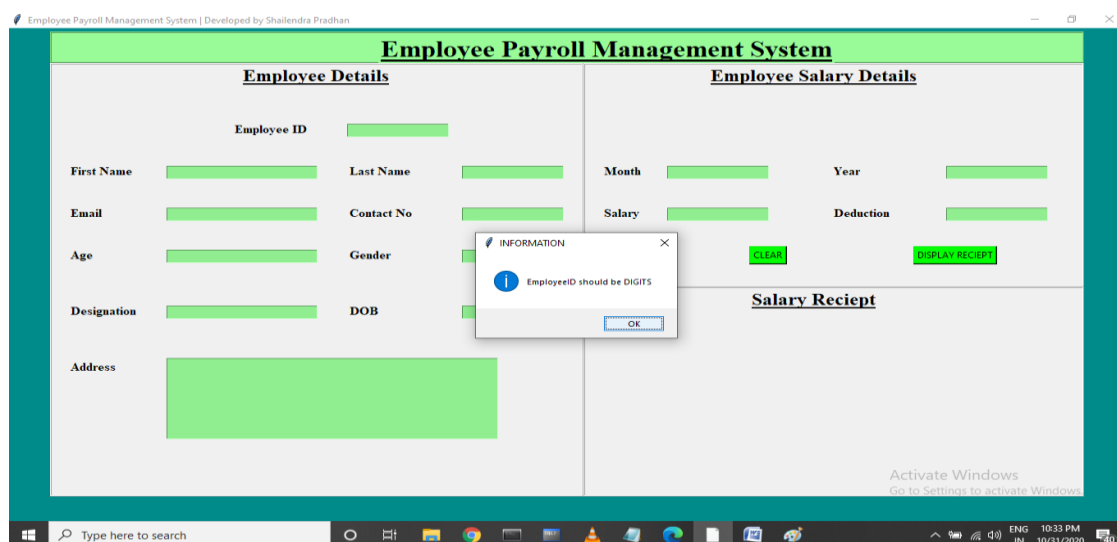
When we first run the program we land on the original form page:



The screenshot shows the 'Employee Payroll Management System' interface. It is divided into two main sections: 'Employee Details' and 'Employee Salary Details'. The 'Employee Details' section includes fields for Employee ID, First Name, Last Name, Email, Contact No, Age, Gender, Designation, DOB, and Address. The 'Employee Salary Details' section includes fields for Month, Year, Salary, and Deduction. There are buttons for 'SUBMIT', 'CLEAR', and 'DISPLAY RECEIPT'. A 'Salary Receipt' section is also visible at the bottom right. The interface is running on a Windows operating system, as indicated by the taskbar and window title.

2.2 Entry with DIGITS

When we Enter the information the place where digits are required, we get an ERROR message stating that the field requires DIGITS.



This screenshot shows the same 'Employee Payroll Management System' interface as the previous one, but with an error message displayed. The error message is a small dialog box titled 'INFORMATION' that says 'EmployeeID should be DIGITS'. This message appears because the 'Employee ID' field, which requires numerical input, has been left empty or contains non-numeric characters. The rest of the form and the Windows taskbar are visible in the background.

2.3 Contact No has 10 DIGITS

Contact No should have exactly 10 DIGITS while filling the form. If the Contact Detail is either less than or more than 10 DIGITS then a ERROR message is received informing the user to enter 10 digits.

Employee Payroll Management System | Developed by Shailendra Pradhan

Employee Payroll Management System

Employee Details		Employee Salary Details	
Employee ID	11901166		
First Name	Shailendra	Last Name	Pradhan
Month	10	Year	2020
Email	shaiprd2897@gmail.com	Contact No	123456789
Age	23	Gender	Male
Designation	CEO	DOB	28/09/19
Address		GELEPHU BHUTAN	

INFORMATION

Please enter 10 digit Contact No

OK

CLEAR

DISPLAY RECEIPT

Salary Reciept

Activate Windows
Go to Settings to activate Windows

2.4 All FIELDS must be FILLED

In the process of filling and submitting the form all fields must be filled only then the form will be successfully submitted otherwise there is a ERROR saying that the particular field must be filled to continue the process.

Employee Payroll Management System | Developed by Shailendra Pradhan

Employee Payroll Management System

Employee Details		Employee Salary Details	
Employee ID	11901166		
First Name	Shailendra	Last Name	Pradhan
Month	10	Year	2020
Email		Salary	
Age	23	Gender	Male
Designation	CEO	DOB	28/09/19
Address		GELEPHU BHUTAN	

INFORMATION

Please enter Email

OK

CLEAR

DISPLAY RECEIPT

Salary Reciept

Activate Windows
Go to Settings to activate Windows

2.5 Using SUBMIT button

After filling all the required details in proper manner properly, when we press the SUBMIT button we get a MESSAGE that the information filled is submitted successfully.

The screenshot displays the 'Employee Payroll Management System' interface. It is divided into two main sections: 'Employee Details' and 'Employee Salary Details'. The 'Employee Details' section includes fields for Employee ID (11901166), First Name (Shailendra), Last Name (Pradhan), Email (shaiprd2897@gmail.com), Contact No (1234567891), Age (23), Gender (Male), Designation (CEO), DOB (28/09/1997), and Address (GELEPHU BHUTAN). The 'Employee Salary Details' section includes fields for Month (10), Year (2020), Salary (1000000), and Deduction (10000). A 'SUBMIT' button is visible. A large black arrow points from the 'SUBMIT' button to a small 'INFORMATION' dialog box that appears in the center of the screen. The dialog box contains the text 'Submitted Successfully' and an 'OK' button. A 'DISPLAY RECEIPT' button is also visible in the 'Employee Salary Details' section.

2.6 Using PRINT button

Just like the SUBMIT button the PRINT button works only when specific details are filled in a proper manner.

Also the details and the calculation of the DEDUCTION deducted from main SALARY is calculated and NET PAYABLE SALARY is displayed in the DISPLAY RECEIPT frame.

The screenshot displays the 'Employee Payroll Management System' interface, similar to the previous one, but with the 'SUBMIT' button highlighted. A large black arrow points from the 'SUBMIT' button to the 'Salary Receipt' section. The 'Salary Receipt' section displays the following information: Employee ID: 11901166, Employee Designation: CEO, Employee Name: Shailendra Pradhan, MM/YYYY: 10/2020, Employee Contact No: 1234567891, Employee email: shaiprd2897@gmail.com, and Net Payable Salary: 990000. The 'Employee Details' and 'Employee Salary Details' sections are also visible, with the 'SUBMIT' button highlighted. A 'DISPLAY RECEIPT' button is also visible in the 'Employee Salary Details' section.

2.7 Using CLEAR button

Using the CLEAR button CLEARS all FIELDS.

Employee Payroll Management System | Developed by Shailendra Pradhan

Employee Payroll Management System

Employee Details				Employee Salary Details			
Employee ID	<input type="text"/>						
First Name	<input type="text"/>	Last Name	<input type="text"/>	Month	<input type="text"/>	Year	<input type="text"/>
Email	<input type="text"/>	Contact No	<input type="text"/>	Salary	<input type="text"/>	Deduction	<input type="text"/>
Age	<input type="text"/>	Gender	<input type="text"/>	<input type="button" value="SUBMIT"/> <input type="button" value="CLEAR"/> <input type="button" value="DISPLAY RECEIPT"/>			
Designation	<input type="text"/>	DOB	<input type="text"/>				
Address	<input type="text"/>						

Salary Reciept

Employee ID: 11901166
Employee Designation: CEO
Employee Name: Shailendra Pradhan
MM/YYYY: 10/2020
Employee Contact No: 1234567891
Employee email: shaiprd2897@gmail.com
Net Payable Salary: 990000

Activate Windows
Go to Settings to activate Windows

2.8 LINK of the PROJECT

<https://github.com/kapilpoudel/K19PT-A-13>

3. Description of Work Division in term of Roles among students

This project is done by Kapil Poudel, Shailendra Pradhan, Adel Al Farzai .

We started this project 2 weeks ago from the deadline of submission that is on 15 october .

We saw the recording video of our class to revise again so that we can be confident while doing our project.

We spent time on the video call researching and learning about the PAYROLL MANAGEMENT SYSTEM together and discussing.

We also watched Youtube videos for references and implementation of the project using the Jupyter Anaconda Platform.

We also conducted a lot of group discussions over video calling the messenger to implement and discuss our project.

Since we are in different places it was not possible to do in same computer by sitting together so we divided the work and did the project.

Shailendra Pradhan make the framework using GUI (Tkinter) by Python and Kapil Poudel make this report for the project and Feras Adel Al Farzai help by providing important information while doing project.

4. Technology and Framework to be used.

Hardware requirement

- Processor: intel dual core
- Processor speed: 1.0GHZ above
- RAM: 8GB RAM
- Hard Disk: 1TB

Software requirement

- Anaconda: Jupyter Nootbook
- Language: Python

5. SWOT Analysis achieved in project

Strength

It is cost effective as the user control the web application himself and does not go for professional service.

It saves time as it speeds up every aspect of the employee database management and payroll process with a range of automated features.

It is secure as the employee database and the payroll process is managed by the admin in house rather than sending private information to a third party.

Validating procedures and checks restrict user from making mistakes

The software is easy to use and is user friendly so no expertise is required.

The calculations are automated so no chance of error.

Weakness

The weakness of our project that it does not have proper security and storage facility.

The system in which is not as reliable and secure for a company details to be uploaded on the internet or through a network facility.

The system also does not have a proper database system to properly store the details and confidential information of a company.

Opportunities

The strength of this project is that this type of payroll management system is required in every small and big organization.

Every organization has employees and this is an employee payroll management system which helps to manage the payroll of all the employees in a company.

All organizations will be able to use our software system and all organization will be a target while creating the project.

Threats

The threats that our system faces is the software can be breached.

System doesn't have proper security facility.

The database storage used in our system is not reliable.