

De La Salle University- Manila Gokongwei College of Engineering



PROLOGI Programming Logic and Design

Project Proposal

PACMAN: Payroll Automation and Calculation Management Application Network

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Project Description

To create an automatic payroll for employees that automatically deducts taxes such as Pag-Ibig and SSS (Social Security System). With that the members of the group decided to create a specific code wherein if one inputs the salary of a specific employee, the company does not have to compute it manually. Additionally, tax deductions are a critical part of any payroll system, and they must be accurately calculated and deducted. This proposal outlines an automatic payroll system with tax deductions for your organization.

OBJECTIVES

- 1. To provide users with a reliable and convenient way to compute their salary after taxes and deductibles are taken out.
- 2. To help users plan their finances better by providing a more accurate budget that they will have after taxes and deductibles
- 3. To ensure that the program is user-friendly and can be easily used.

FUNCTIONS

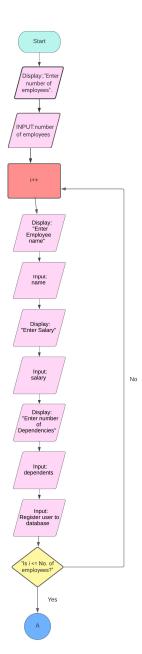
- 1. The person's monthly salary will be inputted, and it will automatically deduct taxes and other deductibles.
- 2. Increase employee satisfaction due to the efficient and accurate payroll process
- 3. Reduce errors in payroll and tax computations.

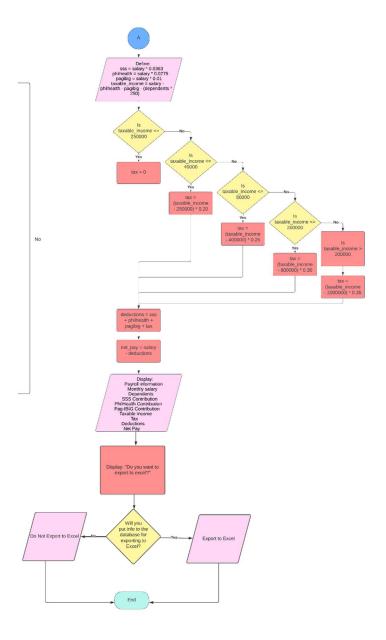
IPO

Input	User registration/log in
	 Number of employees
	 Employee information
	 Deductibles chosen
Process	• The system will first ask the user if they have an existing account if not,
	they will create a new one
	After that user will enter employee
	information such as salary and dependencies and select which
	deductibles to include
	The program will then compute the
	remaining salary of the employees and display them.
	Additionally, the program will ask if
	the user wants to save the data to an
	excel file
Output	 Salary of employees
	 Excel file with employee salary

Methodology

The main library that the group will be using for the project is the pandas module which is a data analysis modules and will allow the group to analyze the data that was provided by the user and will be used to compute for the dependencies that the user will select in order to compute for his final salary. The main functions that the group will use will be the if else functions that will provide the program with the necessary logic for it to be able to determine which dependencies the user chose, and how much should be deducted from the user. The other function that will be vital to this project is the payroll.to_excel function which allowed the group to be able to save the information to an excel file. The last function that was vital to this project is the data frame function that allowed the group to be able to save user information in a database for potential use at a later date.





Schedule of Activities

STREET OF FEET FREED			
Initial Planning	In this stage the group will come up with a concept for the project ask whether it will be approved or not	March 7 – 10, 2023	All group members will have an input according to assigned role.
Methodology and IPO	In this stage of development the group will conceptualize how the program will	March 10 – 13, 2023	

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	work using an IPO	
	model and flowcharts	
Final Project	In this stage the	March 13 – 15, 2023
Proposal	group will submit the	
	final project proposal	
	for approval and	
	consultation	
Coding	In this stage the	March 15 – 21, 2023
	group will be making	
	the program itself	
	while in a ftf setup	
	allowing the flow of	
	ideas to be more free	
	between the members	
Project	In this stage the	March 21 – April 2,
Documentation	group will be making	2023
	the project	
	documentation along	
	with the necessary	
	research needed	
Project Upload to	In this stage the	April $2 - 3$, 2023
repository	group will upload the	
	project to the	
	repository for final	
	checking.	

References

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