

TECHNICAL UNIVERSITY OF MOMBASA

## PROJECT PROPOSAL

**TITLE:** PAYROLL PROGRAM SYSTEM

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Contents

[PROJECT PROPOSAL 1](#_Toc515972608)

[CHAPTER ONE 3](#_Toc515972609)

[1.0 Introduction 3](#_Toc515972610)

[1.1 Problem solution 3](#_Toc515972611)

[1.2 Objectives of study 4](#_Toc515972612)

[1.2.1 General objective 4](#_Toc515972613)

[1.2.2 Specific objective 4](#_Toc515972614)

[1.3 Significance of the study 4](#_Toc515972615)

[1.4 scope of the study 5](#_Toc515972616)

[CHAPTER TWO 6](#_Toc515972617)

[Chapter literature review 6](#_Toc515972618)

[2.0 Introduction 6](#_Toc515972619)

[CHAPTER THREE 7](#_Toc515972620)

[METHODOLOGY 7](#_Toc515972621)

[3.0 Introduction 7](#_Toc515972622)

[3.1 Input, process and output. 7](#_Toc515972623)

[References 9](#_Toc515972624)

# CHAPTER ONE

1. Introduction

My project **Payroll Program System** will come up with a system program that will calculate and process employees’ payment tasks in relation to human resource management. Some of the aspects included in the project are the calculation of taxable and pensionable pay which will be derived from the combination of other payment tasks such basic salaries, overtime payment, tax period and list of other more aspects that are composed in employee payment processes.  
The general problem that has made me come up with this program is a lot of the time wasted in manual calculation of bulk employees’ payment tasks and use of slow payroll systems which is resulting to missed deadlines or incorrect fillings of taxes bringing about to a fine or a jail time. Also, it is a challenge to big companies with large number of employees to hire a group of accountants to manage payment records of employees and in return becoming a burden to the company in terms of their salary cost.

## 1.1 Problem solution

This project will come up with a clear way out of the complications stated above. The new payroll program will minimize the amount of time used to calculate payment tasks manually by automatically processing all tasks efficiently in just little input of data to the system program to output desired employees’ payment records. Also, the program will be an advantage to big companies with a large number of accountants by getting rid of a certain number or all the accountants and having only one person to run the program to process payment records automatically in little amount of time.

## 1.2 Objectives of study

The project aims to create a system program that will carry out payment calculations on real time basis to enables employers achieve an effective policy of carrying out their payment duties without any incorrect fillings.

## 1.2.1 General objective

The general objective of the project is to come up with a payroll system that will only require small number of input to output large data relating to employee payment records and processes of calculation.

## 1.2.2 Specific objective

The specific objective of the project aims to make it easy for employers to manage payment calculations efficiently by use of the payroll program system which in return will automatically output explicit payment records such as taxes, deductions, net pay, gross pay and many others by a single click on buttons which will generate desirable output and add the data items into excel spreadsheet.

## 1.3 Significance of the study

The general advantages of this project is that:-

* The designed system program will carry out payment calculations accurately and in minimum amount of time as compared to manual operations methods.
* The system will eliminate incorrect fillings of data and perform an automatic storage of already made up payment records and recommendations.
* The system program will lessen amount of money paid to accountants to process payment records manually.
* The system will require small input of data to output large data quantity relating to employees’ pay calculations.

## 1.4 scope of the study

The system that I’m going to design under this project will achieve its goals and objectives efficiently as follows, each operator of the system program will be required to input basic employee data such as tax code, basic salary, employee name, overtime pay and tax period in order for the system to combine all the data through some arithmetic operations to output crucial payment records that includes net pay, deductions, gross pay, taxable pay and other relevant payment records.

## CHAPTER TWO

## Chapter literature review

1. Introduction

My project intends to improve another payroll program that is of the same standards. Although that current system is achieving its objectives in an efficient manner it is depending on maximum input of data and an embed calculator to carry out payment operations in which by result a lot time is being wasted to process all the data in cases where employees number is large and sometimes occurrence of errors in the output of data due incorrect fillings especially when using the calculator embed in the system program. My projects aims to get rid of this inconveniences by coming up with a system that will depend on little input of data and remove manual operations of calculator by removing the calculator module however performing all the operations efficiently in less time to ensure that there is no incorrect fillings of data items, time wastage and recommendation of every payment task done in a specific amount of time.

## CHAPTER THREE

## METHODOLOGY

1. Introduction

My project will follow a step by step standard procedure up to the final implementation and execution of real system program. The project will rely on visual basic programming language (VB.Net) for the purpose of coding and execution of program modules and involve an Excel spreadsheet Application for the purpose of storing the data. Also, the project will strongly depend on software development lifecycle (SDLC) procedure to carry out its fundamental operations and objectives efficiently. The procedure will be as it follows:-

**Planning** (initiation and scheduling of the project)

**Analysis** (Determination of project requirements and processes)

**Design** (creation of system program modules using VB.Net)

**Implementation** (combining of all the modules to a full system program and carry out initial testing)

**Maintenance** (Health purposes support and later improvements of the program)

* 1. Input, process and output.

The payroll program system will handle the following data inputs, processes and outputs for the running of running efficiently to meet both general and specific objectives.

|  |  |  |
| --- | --- | --- |
| **Data Input** | **Processes of Data** | **Data Output** |
| Basic salary  Overtime  Tax period  Tax code  Ni code  Ni Number  Inner city weighting | Addition  Subtraction  Multiplication  Division | Gross pay  Net pay  Total deductions  Loan pay  Taxable pay  Pensionable pay  Ni payment  Tax  Pension |
| Automatic reference number | Generate a unique string of characters for each pay done and combine it with NI number by an “underscore” operator | Automatic reference number |
| Employee Name  Address  Employer Name  Recommendation  Post code | Copy pasting the data to Excel spreadsheet storage model. | Employee Name  Address  Employer Name  Recommendation  Post code |

The system program will automatically store all the data output in excel spreadsheet for the purpose of future references especially when generating payment reports.

In conclusion, the program will consist various buttons which will function as an interface of the data input – output processes. The buttons will be as follows:-

* **AddItems**: This button will support automatic storage of all payment records in the excel spreadsheet.
* A**dd\_Payment**: This button will output all the records after input operations.
* **PayRef**: This button will generate employee payment reference number.
* **Reset**: This button will clear all the records to compute operations for other employees after a payment operation of one employee is done.
* **Exit**: This button will close the program after all operations are done.

## References

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Internet source: <https://www.hrpayrollsystems.net/payroll-systems/>