

General Provident Fund Accounting Software System

Firdaus Amin¹ Rupak Kumar²

¹Department of computer science engineering

¹Al-Falah School of Engineering and Technology Dhauj, Faridabad, Hariyana

Abstract— In the present work a web based Software for GPF accounting system has been developed using ASP.NET and SQL Server2005 in order to fulfill all the user needs and more quickly than before. Present GPF System in several Departments is a manual system. The manual system has certain limitations such as manual calculation, ledger postings and generation of monthly & annual reports, which require lot of critical manpower and time. This is a web-based on local network (Intranet) system which adds new employee's ACR details with details of reporting & reviewing officers, updates or modifies the database according to the requirements and also generates the details based on searching under various categories. So any employee can see the account status and the GPF officer can easily get the job done without any error. GPF Accounting Software System (GASS) maintains all the information regarding GPF A/Cs and Employees. GASS is supposed to connect the different circles where every circle can maintain its own data and also share the information with the different circles.

Key words: General Provident Fund, GPF Accounting Software System, ASP.NET, SQL Server2005.

I. INTRODUCTION

Provident Fund is the fund which is composed of the contributions made by the employee during the time he has worked along with an equal contribution by his employers. It is calculated as a percentage of his salary, say, 12 % and is returned to him on his retirement.¹

As per amendment-dated 22.9.1997 in the Employees' Provident Fund act 1952,³ both the employees and employer contribute to the fund at the rate of 12% of the basic wages, dearness allowance and retaining allowance, if any, payable to employees per month.

The manual system has certain limitations such as manual calculation, ledger postings and generation of monthly & annual reports, which require lot of critical manpower and time. A computerised GPF Accounting system will ease this problem and therefore a web based GPF system is required to be developed for computerisation and provide the facility to calculate and get the GPF information across the circle and maintain the record of employee of the Department.

This is exclusive and operational software that gives various facilities to the user i.e. viewing the details of the Employee GPF Account and all the information related to the GPF. Adding, Updating, Delete, Canceling and Restoring the Records & Generate the Reports. The project is divided into various sections that present a clear picture of the system. Simplicity is more Importance while designing. All possible aspects of the system are taken into consideration. The project is developed in one source platform, using ASP.Net^{4,5} and SQL Server.

The software has been proposed to be used by the GPF account officer and GPF Account related employee also but clerk grade employee can only entry the unit, circle,

employee master data and monthly temporary posting but administrative officer can modify master data , final posting ,give advance according the rule and can give the final withdrawal , transfer of the employee from one circle or unit to another circle or unit, delete the records and can see the information about the employee of the Department.

This is a web-based (Intranet i.e. on local network) system which adds new employee's GPF account and detail, updates or modifies the database according to the requirements and also generates the details based on searching under various categories. So any employee can see the GPF amount and GPF clerk can work very effectively.

II. PURPOSE OF THIS WORK

Purpose of the document is to define the following Objectives:

- To list product functions and entities
- To provide details of Software requirements.
- To describe data requirements.
- To identify software Acceptance Criteria along with various assumptions/ dependencies, and design & general constraints.
- To describe nonfunctional requirements and implied needs of the customer.
- To provide details such as Inputs/Outputs, Data Flow Diagrams, Entity Relationship diagrams, etc.

III. PROJECT SCOPE

GPF Accounting Software system will help for appraisals and promotions of employee's GPF account maintain and easily getting the reports from the system and can update the account the related employees and Officers. Some time employees have the urgent need of advance but the department gets 10-12 days to relive the amount because they have to consult the circle office to know about the account information and about amount. So the web based software system will help to the clerk and the general employee. GPF clerk can now verify the employee account from their unit and can done the job in 1 -2 days. Secondly the employee can see their account status any time any were without consulting the GPF clerk. Science this software is WEB BASED so it make the GPF Section of the Department globalize. Before making this software the GPF Section of the department was devided in Circle and the more than one Unit and there is no link between the unit and the circle. So when one employee was transfer to the other circle the GPF officer has to send the amount and other related data manually and it took long time. This Web Based Software will help the GPF Section to over come from all the Problems.

IV. GENERAL DESCRIPTION

The software has been developed using the following context diagram. The context diagram shows that the input is given by the administration, operator and on the basis of employees detail the report or queries will be generated for the employee as well as department.

A. Context Diagram:

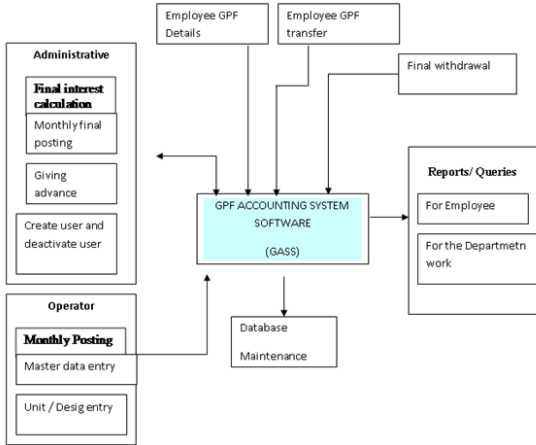


Fig. 1: Context Diagram

The schematic diagram of this system is as follows.

B. Schematic diagram of GPF Account:

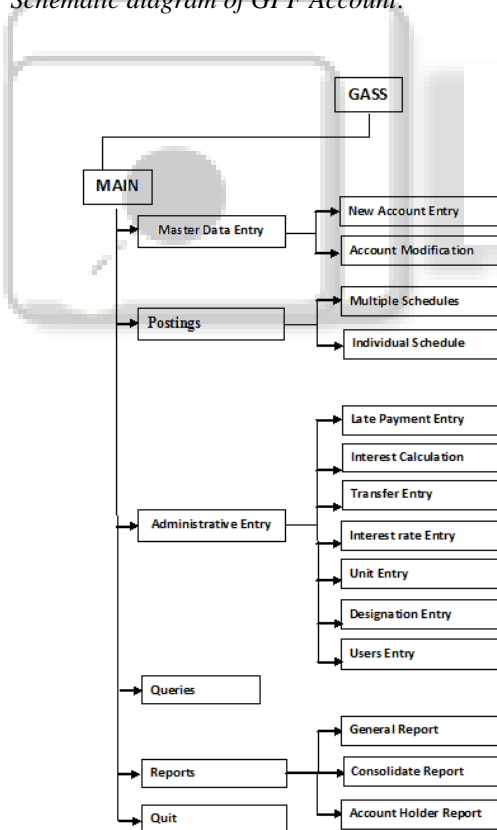


Fig. 2: Schematic diagram of GPF Account

Based on context diagram and schematic diagrams flow charts have been drawn for the development of web based system.

V. FLOW CHART

A. FLOW CHART OF NEW ACCOUNT NO's ENTRY:

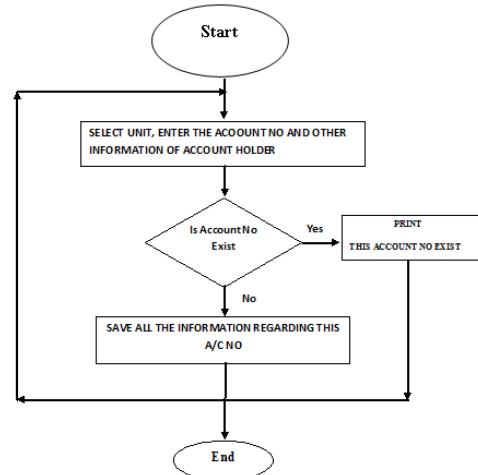


Fig. 3: Flow Chart of New Account No's Entry

B. FLOW CHART OF NEW DESIGNATION'S ENTRY:

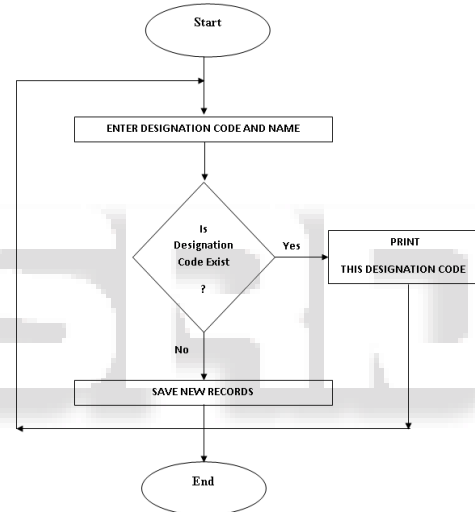


Fig. 4: Flow Chart Of New Designation's Entry

C. FLOW CHART OF MONTHLY POSTING:

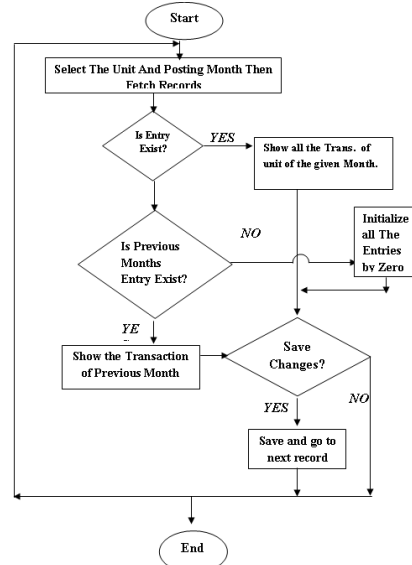


Fig. 5: Flow Chart Of Monthly Posting

D. FLOW CHART OF INTEREST CALCULATION ENTRY:

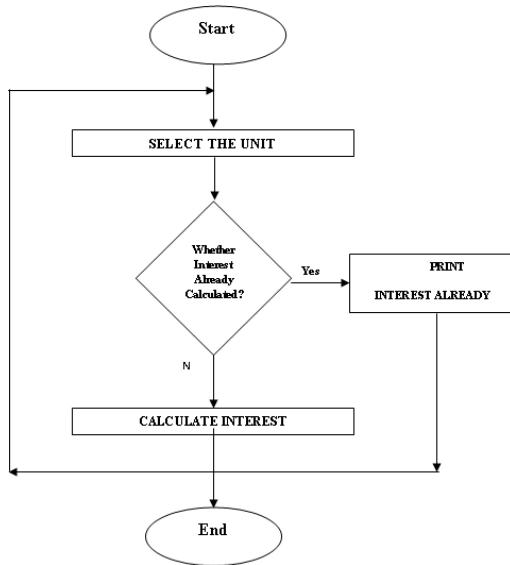


Fig. 6: Flow Chart Of Interest Calculation Entry

VI. CONCLUSION

In conclusion a web based application has been developed for the GPF account system using ASP.NET and SQL Server. The System depends on how is the interaction between user and the developer. The system is working fine when it is tested on local network. The information that the system is generating is consistent with the manual information but with a greater speed. The users will have better feel working with the web site and retrieving the required information. As the web site provides menu driven interface, the user can interact with the site quite easily.

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