



Server-Based Accounting Application

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ABSTRACT—

Today, accounting has come to seize a significant position in its functions in the business world. Accounting plays a critical role in the operation of an organization. For every business, it is important that the financial information of the business activities is being kept up-to-date and monitored by the organization. Accounting involves various processes, ranging from simple to complex and even burdensome. To satisfy the increasing demand for up-to-date and accurate information, accounting software, an integration of accounting and information technology was introduced to the world.

Keywords—Accounting Application, Flutter Application, SQL Database

I. Introduction

We're making a Server Based Accounting Web-Application for Smartify Company who are sponsoring this project. Smartify is a home-automation based company which distributes different automation products, for eg. Automated switches for home appliances (One Touch, Four Touch, Fan Touch), etc. We are going to use this for keeping information about buyers/sellers, maintaining records of transactions, generating reports, keeping check on stock available, checking on expenses & budget. There are 4 roles with each having their unique job to do. Each job is equally important for the development of application. Master will maintain information about buyers and sellers. The 2nd person will keep daily record of transactions and information related to it. The third role is to generate a report which the user can also export to file formats like Excel, PDF. Lastly the fourth member will club together the work done by remaining members in a proper way.

II. Literature Survey

We were asked to give four topics in regard to our final year project of capstone project planning(cpp). We came up with various topics after discussing over it and searching for topics on the internet, however unable to come with a unanimous decision for topic. We decided to put the decision of selection of topic to survey. We included friends, relatives, neighbours, etc. The people to who took the survey were asked to give such an idea which is required globally and is a necessity. After seeing the results of survey we came with the topic of Accounting as it something which is a requirement for businesses globally. This topic fit our requirement of doing something which is of practical use widely..

III. Literature Review

A. Summary

To summarize it, our application shall provide the Smartify company with a Server Based Accounting Web-application. It will be of a great assist to maintain and track the company's transactions. It will make retrieval of records of transactions easier as it exists in digital form. It shall also aid in analysis and reports. The ability to easily access accounting information through accounting software makes it easier to complete audits, particularly those that require evaluating information from years prior

B. Incremental Model

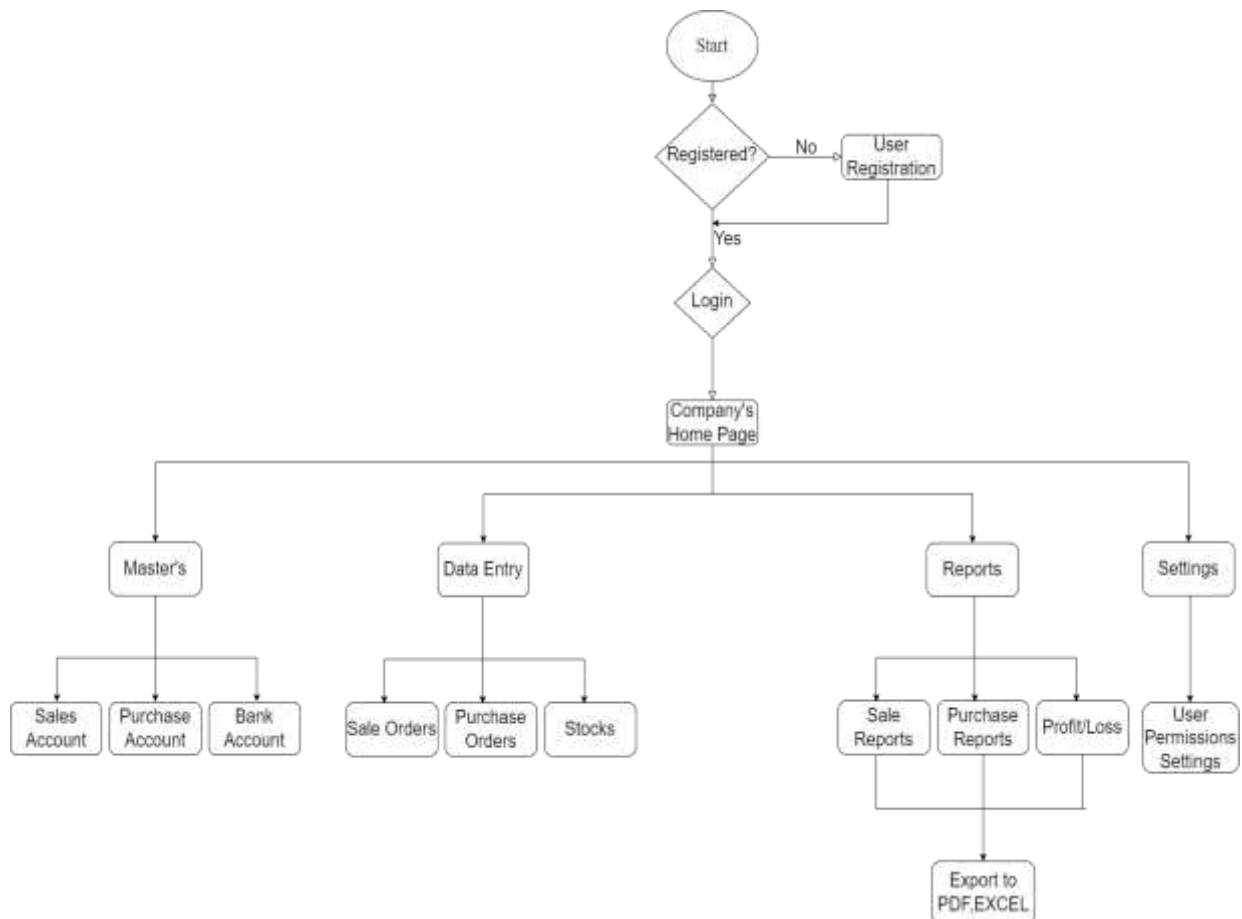
Incremental Model is a process of software development where requirements divided into multiple standalone modules of the software development cycle. In this model, each module goes through the requirements, design, implementation and testing phases. Every subsequent release of the module adds function to the previous release. The process continues until the complete system achieved.

- Phases of Incremental Model

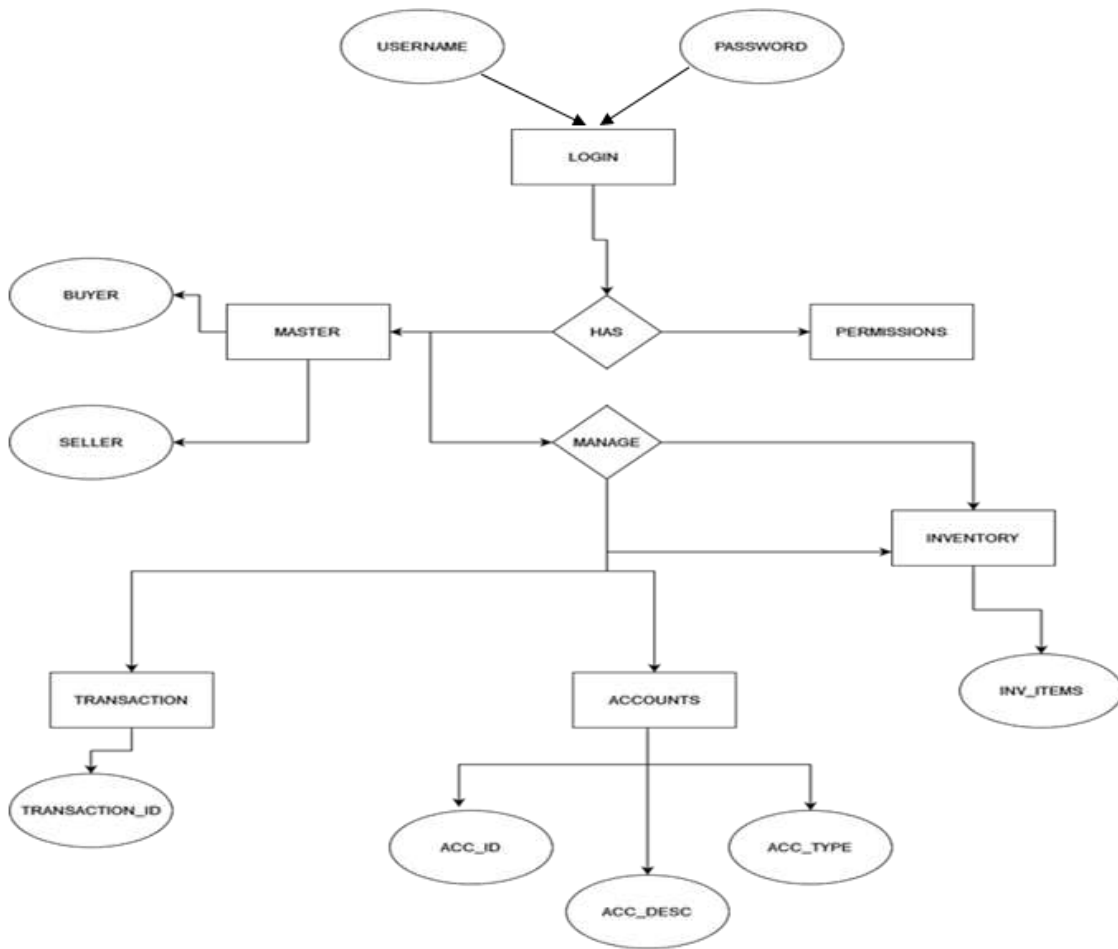
1. Requirement analysis: In the first phase of the incremental model, the product analysis expertise identifies the requirements. And the system functional requirements are understood by the requirement analysis team. To develop the software under the incremental model, this phase performs a crucial role.
2. Design & Development: In this phase of the Incremental model of SDLC, the design of the system functionality and the development method are finished with success. When software develops new practicality, the incremental model uses style and development phase.
3. Testing: In the incremental model, the testing phase checks the performance of each existing function as well as additional functionality. In the testing phase, the various methods are used to test the behavior of each task
4. Implementation: Implementation phase enables the coding phase of the development system. It involves the final coding that design in the designing and development phase and tests the functionality in the testing phase. After completion of this phase, the number of the product working is enhanced and upgraded up to the final system product

IV. Modelling and analysis

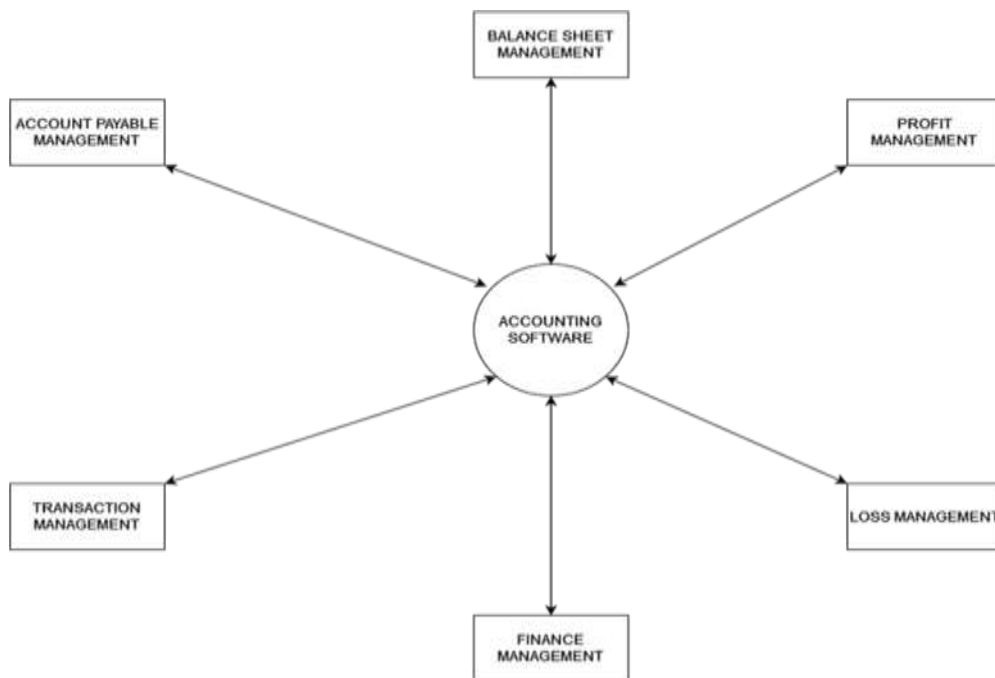
The main focus of the modeling and analysis is to provide a detailed report on the modeling of the report. In this section we present the graphs and charts to show the analysis and the glimpse of our research work.



FLOWCHART

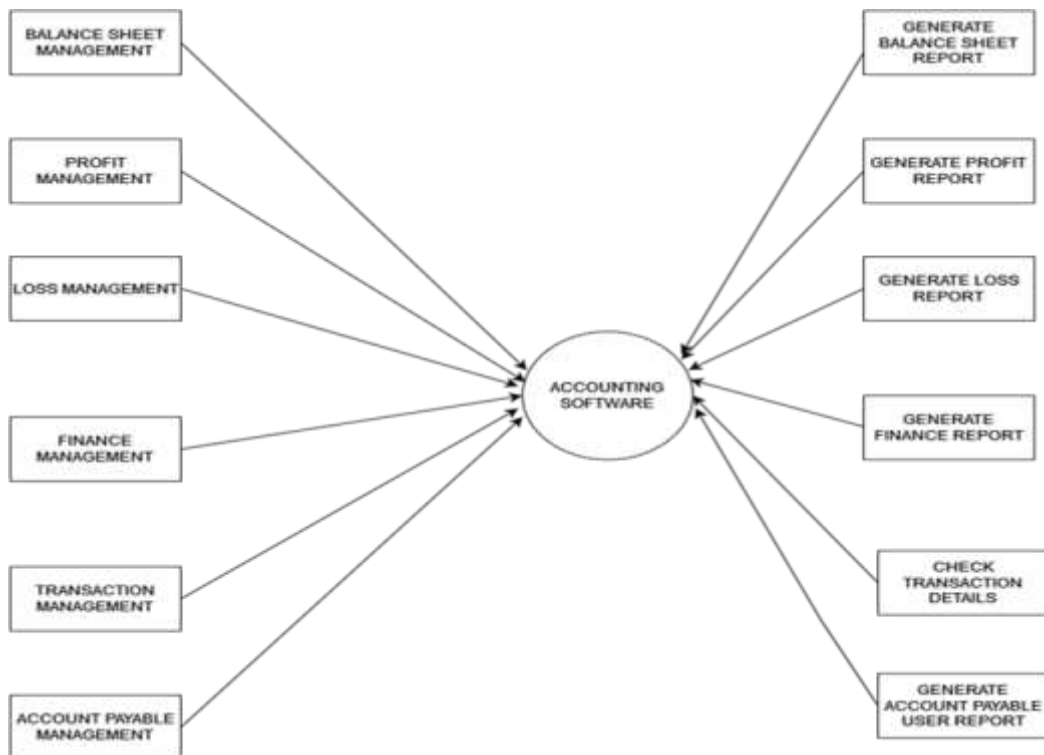


ER DIAGRAM



DFD LEVEL 0 DIAGRAM

DFD LEVEL 1 DIAGRAM



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