**GROCERY MANAGEMENT SYSTEM**

**BY**

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**8262/17**

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A Summer Project Report Submitted to

**Faculty of Management, Tribhuvan University**

In partial fulfillment of the requirements for the degree of

**Bachelor of Information Management**

Kathmandu, Nepal

February, 2021

# STUDENT DECLARATION

This is to certify that I have completed the Summer Project entitled “Grocery Management System” under the guidance of “Bal Krishna Subedi” in partial fulfillment of the requirements for the degree of **Bachelor of Information Management at Faculty of Management, Tribhuvan University.** This is my original work and I have not submitted it earlier elsewhere.

Date: 2021/02/25 Signature:

Name: Aashish Bhandari

# CERTIFICATE FROM THE SUPERVISOR

This is to certify that the summer project entitled Grocery Management System is an academic work done by Aashish Bhandari Submitted in the partial fulfillment of the requirements for the degree of **Bachelor of Information Management** at faculty of Management, Tribhuvan University under my guidance and supervision. To the best of my knowledge, the information presented by him in the summer project report has not been submitted earlier.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of the Supervisor

Name

Designation

Date

# ACKNOWLEDGMENT

First of all, I would like to thank **Tribhuvan University** for providing us with such a wonderful platform for us to grow and thrive. Along with that, I am very thankful for our college, **St. Xavier’s College**, for providing me with this wonderful opportunity. I am thankful for the Grocery store nearby my house for supporting me the project.

I would like to express my heartfelt gratitude and admiration to all those who immensely provided us the guidance and the assistance to complete the project. I would like to extend my special gratitude to our Head of Department, **Mr. Ganesh Yogi**, for his guidance during this project and also for his mentoring.

Furthermore, I would like to thank our project supervisor **Mr. Bal Krishna Subedi**, St. Xavier’s College for providing us valuable guidelines, supervision and suggestions to successfully complete this project. The success and final outcome of this project required a lot of guidance and assistance from many people and we are very fortunate to have this all along the completion of this project.

At last, I would like to express my sincere thanks to all my friends and colleagues who helped me directly or indirectly during the project time.

**Aashish Bhandari**

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# EXECUTIVE SUMMARY

One of the most essential businesses throughout the century is the grocery business. Grocery stores are truly hallmark of the established society. We cannot hoard everything that we need or might require in the future, so we have grocery stores nearby to buy the items we require in day to day business.

Providing services to customers should be reliable, highly managed and should avoid a possible human error that is due to the existing manual system. One of the main problems of grocery stores while using manual systems is to keep error free records such as inventory, invoices, credits of customers etc. During a small survey at a local grocery store I came to know that people are willing to use systems that can automatically maintain inventory, credit system and billing.

Grocery shop management systems can lead to error free, secure, reliable and fast management systems. It can assist the user to concentrate on their other activities rather than focusing on record keeping. This system gives a summary of vital information such as total sales, total purchases, total receivable and total payable. Grocery stores can organize and maintain records without worrying about redundant entries and one need not to be distracted by information that is not relevant, while being able to reach the information.

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# CHAPTER I: INTRODUCTION

## 1.1 Background

This project “Grocery Management System” provides a simple UI to maintain the different record of grocery inventory, purchase, suppliers and helps to track revenue, purchase etc. The first activity is to add purchased item with purchase rate and sales rate. This authority is given only to admin (administrator). As customer buys the products and comes to the billing counter, the user is supposed to enter the item name he purchased and the quantity of the item he had purchased. This is simple input from user side that does not involve much effort. The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering the invalid data. No formal technical knowledge is needed to get familiar with this system.

Every organization, whether big or small, has challenges to overcome and managing the information of product, customer, stock, suppliers. With this system it is very easy to manage that information and also helps to analysis information by showing purchase trends and sales trends.

In local level grocery tends to manage credits for their regular customer in manual system and sometimes due to manual system errors and inaccuracy the relation between customer and grocery store becomes worse. This system provides small feature to avoid such difficulty and errors.

## 1.2 Introduction to Organization

Balkot Grocery is the small grocery store in my locality that provides essential services to more than 100 customers in which more than 30 of them are regular customer. Family started this grocery business in 2017 A.D with the primary aim of providing essential goods and services that is needed by every household in daily basis. They aim to provide good services to customer including credit facilities to regular customer. This store provides regular services to customer such as goods that is needed in regular basis like salt, sugar, food oil, other different product to more than 100 customers. It has becomes one of the essential entity of that locality.

## 1.3 Current Situation of Organization

After the establishment of the grocery store in 2017 A.D it has provides an important service that is needed in daily basics. Now a day due to increase in household in Balkot there are many customer that get services from this grocery store which ultimately increase transaction in this store such as purchase, sales, credit transactions etc. Currently they use register to record every purchase record as well as sales report. Keeping track of much customer credit is also maintained manually in register. Now a day due to increase in transaction to store there is inconsistency in data, rooms for errors. The overall system of grocery system is depending on single person which increase the probability of errors in data entry.

They heavily relied on traditional way of management of products and different transactions that occurred on grocery store. They use pen and copy to record different product on the inventory and updating inventory. With this manual system it has becomes very difficult to know which item is about to finished in the stock and which item to purchase from vendor. Precisely there is no any systematic way of managing inventory, keeping track of every product in the store.

The purchase flow currently in practice in this sore is shown in figure below.

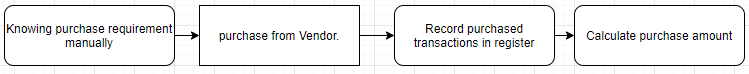


Figure Current purchase flow.

Sales flow currently in practice in this store is shown in figure below.

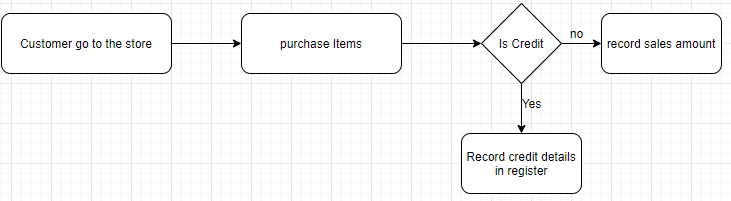


Figure Sales record flow

Currently keeping record of purchase and sales is manual and it is very difficult to manage those records on long term. With purchase and sales it is very difficult to update inventory in manual system so currently inventory is calculated before purchase is made and there is high changes of purchasing less important item while there exists some item which needed to be purchase immediately.

## 1.4 Issues/Problems of the report

The issues/problems of the report are as follows:

* The project was not tested in real time data and traffics.
* Dummy data was used for verification and validation.
* Inability of local server to be up at all time.

## 1.5 Object of the report

The main objective is to upgrading from traditional systems to modern one. Upgrading is needed in grocery store as it goes big day by day and customer increase. The other objectives of this report are:

* To computerize all main activities occurs in grocery store such as securely storing various transactions that occur in day to day basic in grocery without worrying about data loss; avoid human errors in calculations of transactions and making invoices.
* Maintaining customer’s details, invoices, credit, purchase and suppliers of the store and also store those data securely on database with both read and write operation by admin.
* For maintaining records of inventory in which products in inventory increase on every purchase and decrease on every sale automatically.
* Display revenue of grocery on daily, weekly and monthly basis.
* Display top demanded goods and products on grocery on weekly and monthly basis.