**GROCERY SHOP MANAGEMENT SYSTEM**

**A Minor ProjectSynopsis Submitted to**

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**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

**Towards Partial Fulfillment for the Award of**

**Bachelor of Technology**

**(Computer Science and Engineering)**

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**July-Dec2022**

# Abstract

**The purpose of Grocery Shop Management System is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfillingtheir requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work.**

**The aim is to automate its existing manual system by the help of**

**computerized equipments and full-fledged computer software , fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing andmanipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.**

# Introduction of the Project

# The Grocery Shop Management System has been developed to override the problems prevalling in the practicing manual system.

# This software is supported to eliminate and in some cases reduce the hardships faced by this exixting system.

# The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No format knowledge is needed for the user to use this system. Thus by this all it proves It is user-friendly. Grocery Shop Management System , as described above, can lead to error free, secure, reliable and fast management system.

# Every organization, whether big or small, has challenges to overcome and managing the information of the product , customer, product type, stock, supplier. Every Grocery Shop Management System has different customer needs, therefore we design exclusive employee management system that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level o information and details for your future goals. These systems will ultimately allow you to better manage resources.

# Objective (100 words)

**The main objective of the project in Grocery Shop Management System is to manage the details of Customer,Product, product company, product type, supplier. It manages all the information about customer , Stock, Supplier, Customer. The project is totally built at administrative end and thus only the administrator is guranted the access. The purpose is to build an application program to reduce the manual work for managing the customer, product, stock, product company. It tracks all details about the product company, product type, supplier.**

# Scope (100 words)

**It may help collecting perfect management in details. In a very short time , the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Grocery ShopManagement System. It will also reduce cost of collecting management & collection procedure will go on smoothly.**

**Our project aims at Business process automation.**

* **In computer system the person has to fill the various forms and number of copies of the forms can be easily generated at a time.**
* **In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.**
* **To assist the staff in capturing their respective working areas.**
* **To utilize resourcesnin an efficient manner by increasing their productivity through automation.**
* **The system generate types of information that can be used for various purposes.**
* **It satisfy user requirement .**
* **Be easy to operate.**
* **Have a good user interface.**

# Study of Existing System (200 words)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Merits | Demerits | Reference |
| **Online grocery manage-ment system**  **Modern Grocery mart project** | Grocery shopping these days has become a job. The client needs to continuously monitor groceries at home and also has the work of directing coupons, maintaining shopping lists, standing in  restraint out queues, reading the fine print on food cans, and even needs to find out within which rack and row he or she may notice that object. A large  amount of the grocery shoppers would thus have an interest in an additional appropriate, rapidly grocery shopping option. Presently life for everyone has  become so confused and time consuming, at such  time we require a smart system at our kitchen also.  Grocery business is the only business that one can start almost anywhere since food is essential for survival of human beings and selling food items is the most profitable business of all time. Grocery shopping is the largest and most consistent share of the expenses for every household. Groceries sell irrespective of the state of the economy. The recent corona-virus outbreak has led to lockdowns world-wide and many businesses suffered due to this pandemic | The provision of sorting or  prioritizing search results allows users to better meet  their own needs by allowing users to have more  control over the online grocery store.  .  A Project Report is notonly essential for obtaining financial assistance from Bank/ Financial Institution/Funding Agency but also the most important document either to participate in the development schemes of MSME Sector/ Department of Industries or in completing various time consuming government formalities connected with planning and commercial operation of the proposed business project. | In the case  where a user chooses to browse the site (Linking) rather than employ the search facility, it is essential to  provide  meaningful labels and menu names to aid navigation (Freeman, 2009). Bannister (2002)  suggests that strong andrelevant cross selling serves  as extra navigation for users who wish to browse  rather than having a set list, as well as increasing  product sales by ‘suggesting’ associated products.  . Accordingly, following Project Templates has been deliberately left blank in order to facilitate customisation by the perspective entrepreneurs based on personal requirements and furnish necessary information on actual basis. | [(PDF) ONLINE GROCERY MANAGEMENT SYSTEM (researchgate.net)](https://www.researchgate.net/publication/352477571_ONLINE_GROCERY_MANAGEMENT_SYSTEM)  https://www.onlineprojectreport.com/modern-grocery-mart-project-report/p1064192/ |
| **Retail Business PlanOn General Store** | The main objective of this project is to give hands onexperience of creating a detailed Business plan &what are thethings include while making a business Plan. It is my pleasure to present this project work.This Project has expanded my horizon of knowledge in practicalas well as theoretical, which is vital for management levelstudents. Only the basic understanding of the principles ofmanagement is not sufficient but their application is also equallyimportant | Become an established community destination with a customer satisfaction rate of 90% by the end of the nextfinancial year. Achieving Sales Turnover of Rs.4, 00,000Per month innext year. Hiring 5 five new employees for the Store. Repay debt from original financing by the end of the nextthree years. | It organized segment typically comprises of a large numberof retailers, greater enforcement of taxation mechanisms and betterlabour law monitoring system. | https://www.academia.edu/37856787/A\_project\_Report\_on\_Retail\_Business\_Plan\_On\_General\_Store |
| **CROLIST** | The common practice of generating a grocery list is by writing the items to be bought on a piece of paper. Although the method has been used for ages; nevertheless, a paper grocery list could be easily contaminated by liquids and dirt, difficult in reading handwriting, and may be left at home or even misplaced. The development in smartphones and mobile technology has been a solution to overcome the limitations in paper-based grocery lists where mobile apps can support the process of creating and managing grocery lists more conveniently and flexibly | The digital grocery lists are created instantly and stored in individual users’ smartphones, in which they can be easily retrieved back for updating the items or as a reference during the grocery shopping process. Although the digital grocery lists align with the current human lifestyle and technological trend, they are unable to support a collaborative environment. | The current mobile apps for creating digital grocery lists do not provide the facility to share a grocery list among household members. The lists are not able to be updated instantly by other household members who generally consume grocery products in the house and wish to assist in creating a grocery list. It is the main limitation of the existing mobile apps CROLIST: A Mobile App for Collaborative Grocery List Management for creating and maintaining grocery lists in which it is unable to support household members’ needs in managing a shared grocery list together using their own smartphones. | https://www.warse.org/IJATCSE/static/pdf/file/ijatcse55852019.pdf |
| **Big bazar** | Retail means selling goods and services in small quantities directly to the customer. Retailingconsists all activities involved in marketing of goods and services directly to the consumers fortheir personnel family and household use.The Indian retail market is the first position on theretail destination globally, has been ranked as the most attractive emerging market forinvesting in the retail sector by AT Kearney ninth annual global retail developmentindex(GRDI) in 2010. With rising consumer demand and greater disposable income, the US$400 billion Indian retail sector is clocking an annual growth rate 30 percent. | The organised retailsector, which currently accounts for around 7.5 per cent of the Indian retail market, is all set towitness maximum number of large format malls and branded retail stores in south India, ollowed by North, West and the East in the next to years. Tier ІІ cities like Noida, Amritsar,kochi, and Gurgaon, are emerging as the favored destination for the retail sector worth theirhuge growth potential Further, this sector is expected to invest around US$ 503.2 million inretail technology service solutions in the current financial yea. This could go further up to US$1.26 billion in the next year , at the CARG of 40 per cent. | .Unable to meet store opening targets on time.  Falling revenue per sq ft.  General perception: 'Low price = Low quality'  Overcrowded during offers.  Long lines at billing counters which are time consuming.  Limited only to value offering low price products. | <https://www.academia.edu/7815738/Sunil_big_bazar_project_report> |
| **Grocery**  **Shopping android**  **project** | You want to buy grocery but you don’t have sufficient options, then you can download this application. Here, you will get a large variety of groceries available in the market along with different ranges and material. You can purchase number of groceries from here, and can pay online too via credit card. | You can order grocery online using this system application for android operating system and also pay via credit card or online banking as well. This Grocery Shopping Android system will save time and efforts while buying groceries. | Disadvantages included inadequate substitutions, the online shopping fee, lack of control over selection of perishable goods, and inability to find good deals online versus in the store | https://projectsgeek.com/2016/05/grocery-shopping-android-project.html |

# Project Description (200 words)

**There are different module to understand this project:**

**MODULES 1. Employee Module 2. Administrator Module 3.User Module 4. Payment option Module Contd..**

**MODULES DESCRIPTION**

1. **Employee Module: In this employee module the employee mainly receives the customers requirement and have to process on customers request. He basically works on the available products and daily checks the stock availability on time and informs the administrative in charge about the products availability. He**

**delivers the stock ordered by the customer with proper packing and in time delivery.**

**2. Administrator Module: In this administration of whole company is to be maintained. The complaints and suggestions dropped by customers must be checked and required steps are to be implemented. Supervision of employee and the requirement of business must be checked and required steps to be taken.**

**3. User Module: The user must have the personal account and using his login details customer first check the products availability and orders the required products. If the server is busy then customer has to retry once again and continue his request. He can check on various products availability and choose the products required.**

**4. Payment Option Module: We have to ways of payment options Pay now Cash on delivery Customer can pay in two cases when he orders the stocks and after he receives the stock. We provide credits and debit card facility i.e on line banking system. We provide various bank payments.**

# Methodology/Planning of the Project work (200 words)

**Model View Controller or MVC as it is popularly called ,is a software design pattern for developing web application. A Model view controller is made up of three parts:**

**MODEL: The lowest level of pattern which is responsible for maintaining data.**

**VIEW: This is responsible for displaying all or a portion of the data to the user.**

**CONTROLLER: Software code that controls the interactions between the model and view.**

**MVC is a popular as it isolates the application logic from the user interface layer and supports separation of concerns. Here the controller receives all requests for the application and then works with the model to prepare any data needed by the view. The View then uses the data prepared by the controller to generate a final presentable response.**

**PLANING:- Software project plan can be viewed as the following:**

1. **Within the organization:-How the project is to be implemented? What are various constraints(time,cost,staff)? What is market strategy?**
2. **With respect to the customer Weekely or timely meetings with the customer with presentation on status report. Customers feedback is also taken and further modification and developments are done. Project milestones and deliverables are also presented to the customer.**

**For a successful project, the following steps can be followed:**

* **Select a project**
  + - * + **Idedntifying projects aims and objectives**
        + **Understanding requirements and specification**
        + **Methods of analysis, design and implementation**
        + **Testing techniques**

**Documentation**

* **Project milestones and deliverables**
* **Budget allocation**
* **Exceeding limits within control**
* **Project Estimates**
* **Cost**
* **Time**
* **Size of code**

# Expected Outcome (100-150 words)

* **It generates the report on Customer, product, stock.**
* **Provide filter reports on product company, product type, supplier.**
* **You can easily export PDF for the customer, stock, product type.**
* **Application also provides excel export for product, product company, supplier.**
* **You can also export the report into CSV format for customer, product, supplier.**

# Resources and Limitations (150 words)

**We basically required effort estimation in this project which refers to the total man hours required for the development of project.**

**SOFTWARE AND HARDWARE REQUIREMENTS-**

**Front end: HTML, CSS, JavaScript**

**HTML: HTML is used to create and save web document. E.g. Notepad/Notepad++**

**CSS : (Cascading Style Sheets) Create attractive Layout**

**Bootstrap : responsive design mobile freindly site.**

**JavaScript: it is a programming language, commonly use with web browsers.**

**Back end: PHP, MySQL**

**PHP(version - 7.2): Hypertext Preprocessor (PHP) is a technology that allows software developers to create dynamically generated web pages, in HTML, XML, or other document types, as per client request. PHP is open source software.**

**MySQL: MySql is a database, widely used for accessing querying, updating, and managing data in databases.**

**Limitations:**

* **Excel export has not been developed for customer ,product due to some criticality.**
* **The transactions are executed in offline mode,hence online data for product company, product type capture and modification is not possible.**

# Conclusion (100-150 words)

**The project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. Theobjective of software planning is to provide a frame work that enables the manager to make reasonable estimates made within a limited time frame at the beggningof the software project and should be updated regularly as the project progresses.**

# References

**https://image.slidesharecdn.com/review2-170131170129/95/grocery-management-system-62-638.jpg?cb=1485882190**