

Product & Supply Management System

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Abstract— The Product & Supply Management system helps the suppliers to manage the Supply of products more effectively & efficiently by computerizing. This management system is designed for all small shops & startups. The old approach is based on the paper and chart, which needs manual entries this take much time and more resources like paper and billing copy(s). We try to make this process much easy and simple for the superior manager. The main purpose of this project is to computerize of all processes. It is a database management system for a particular industry or small startups. It contributes the main lead for the supplier and try to help managing the supply and sells. It the manpower and utilize the time, resources & staff efforts by computerize all processes. This is totally free to use and easy to understand web tool which is also safe and secure for sensitive data and information itself.

Keywords: Management System

I. INTRODUCTION

The main purpose of this project is to computerize of all processes which happens between the product distribution, supplier & end consumer including the database of the products and stock. It is a database management system for a particular industry or small shops. The Product & Supply Management system helps the supplier to manage the Supply of products more effectively & efficiently by computerizing it. This management system is designed for all small shops & startups which wants to manage the supply chain of there products. The old approach is based on the paper and chart, which needs manual entries this take much time and more resources like paper and billing copy(s). We try to make this process much easy and simple for the superior manager. This software helps to complete some important tasks like automatic Key-search, Stock availability, accounting, billing of the store or shops and much more. The Product & Supply Management web tool provide the facility to manage product manually as well as automatically. The preloaded product range can be set by the supplier (mid consumer). We have designed and built a Product & Supply management system that provides an interactive list of all products which provides all the details of that particular entity. This software is very flexible for new tasks like adding, removing, updating & making new supply chain of products. Product & Supply management web tool follow the most effective and innovated way to convert the multiple client work into one complete software and provide a better platform for the industrial use as well as general agencies. Product & Supply management system is compatible software for self-own business or small low budget agencies.

II. EXPLANATION:

Before creating any website, one has to go through the various processes involved in it. The multiple processes

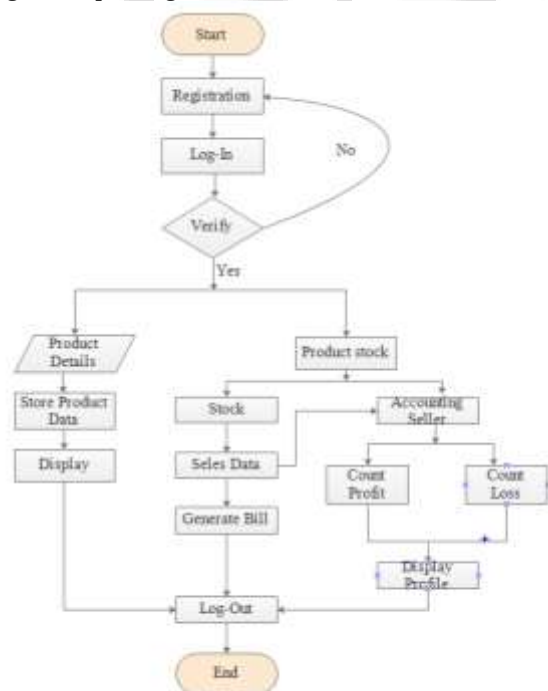
combined together to form a model which is used by every software developer to maintain the flow of cycle which creating any kind of application.

The SDLC (Software development life cycle model) it consists of multiple phases from requirement gathering, designing, coding, testing, deployment and maintenance also multiple models are available which according to the requirements and budgets are selected.

III. SPIRAL MODEL

The we use in our project is "spiral model" which combines the idea of iterative development with the systematic, controlled aspects of the waterfall model. This Spiral model is a combination of iterative development process model and sequential linear development model i.e. the waterfall model with a very high emphasis on risk analysis. It allows incremental releases of the product or incremental refinement through each iteration around the spiral.

The flow of our project can be seen in the following diagram which gives a quick introduction of how our project will flow through multiple stages and what all functionality it will include and how the processes are related to each other through multiple stages.



IV. PRODUCT & SUPPLIER MANAGEMENT

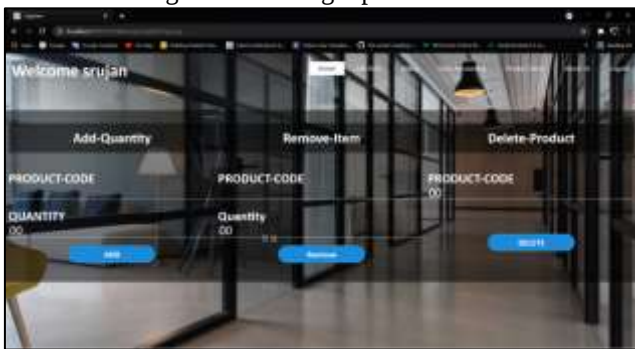
In the age of digitalization, there are many small agencies and industries which wants to expand there business by making new customers of franchisee which can helps to making good network in the market. This is vary challenging to maintain proper's about product and data accounting for product

supplier. so here we need to make system which can check the basic but impotent information like product availability, stock management, product-supply range, supplier stock, dealer name address and so on. But this is not easy to handle by a single person it required a team to manage this and its not feasible and easy for shops. Here PnS System Starts. this project contains several pages for easy access to the user.

We have designed and built a Product & Supply management system that provides an interactive list of all products which provides all the details of that particular entity. This software is very flexible for new tasks like adding, removing, updating & making new supply chain of products. Product & Supply management wed tool follow the most effective and innovated way to convert the multiple client work into one complete software and provide a better platform for the industrial use as well as general agencies.

A. Home Page

this is the entry page where we provide all the navigations for the desired tools here user can access all of them and here we provided some basic update management tools for adding, updating, and deleting for the products in the shop date. Each page is secure by https sessions the no one can access any of them without registration & login process.



B. Login Page

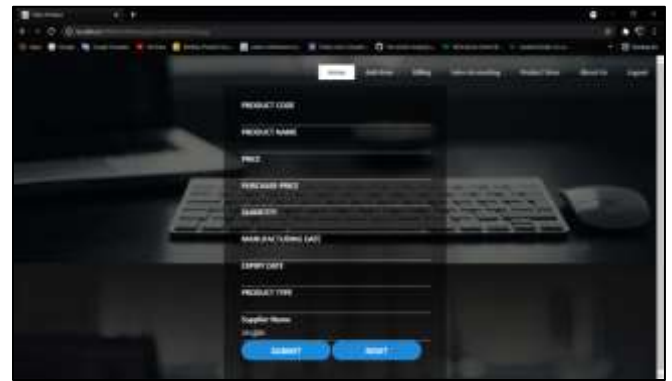
This page allow the registered user to Login into his/her space securly. in this portion the user enter the data and we hold that data using cookie for the one week that means the if user will not login for the week his data will sotre as it is in the cookie session.

C. Registration Page

this page register the new user using the short amount of data which contains Username, Password, Contact_info, City & Code. Registration makes the site available for only register users.

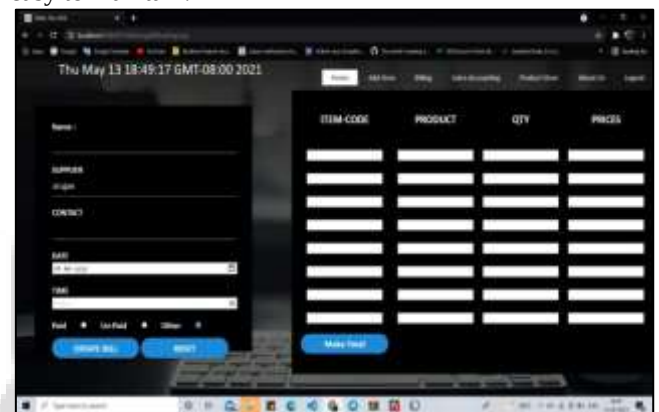
D. Product Entry

The page where user can easily Sotre/Add new product to his database with its unique identities and product_info.



E. Billing System

Billing is important part of all business for the legal money transactions and record so here we provide a separate page for the billing where the user can create bills and make all transaction record digital and its also make less effort to go with old pen-pencil billing system which use pages and not easy to maintain.



F. Selling

PnS system provides easy access of all data about the products where the supplier can see all the product by one sigle click which redirect the user to the page where user can see the detailed information about that particular product and also sell it directly from there as well. the system is smart enough to update the core data at runtime so supplier no need to update the stock manually.

G. Accounting

Buying and selling page make the data recorde of buying and selling of the products. The supplier can check data from there in just one click. all the data will search by the dealer name in this case the dealer is supplier.

V. ADVANTAGES & DISADVANTAGES

Clear Interface of the web tool which is using for the major calculation problems its must to have clear and unambiguous easy to interact interface for the user. Reduced unnecessary option it only focus on the important one at a time. Accounting accuracy self-counting options for make the accounting easy to manage .Product and supply management system make sure the profit and maintain the database for it. Also helps in accounting of the products with each and every details related with it. Open source web-tool It is free to use and open source environment for the user (supplier).

Maintenance the design of the lifecycle of the software is easy and flexible for the new implementations and more, make the maintenance easy.

Lack of automation, automatic working tools are must have to manage the works in the less working professional(s). in this system management tool the user have to do everything like the insertion the product or the basic factors and inputs like price and etc except the calculation. There is no any automatic tools support.

VI. CONCLUSION

With the help of product and supply management system the suppliers can maintain the store more efficiently. Automatically generate the last month profit and maintain old records. The supplier can keep track of all information about the product sell and order etc. Product & Supply Management system helps the supplier to manage the Supply of products more effectively & efficiently by computerizing it. This management system is designed for all small shops & start-ups which wants to manage the supply chain of their products.

VII. FUTURE SCOPE

The system will also available for the Distributers. Distributer can have the multiple supplier at a time. A supplier can place order for multiple type of product. Feedback option is also available for supplier. Implementation of Artificial Intelligence.

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