JETIR.ORG ISSN: 2349-5162 | ESTD Year : 2014 | Monthly Issue
JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH (JETIR)
An International Scholarly Open Access, Peer-reviewed, Refereed Journal

STOCKPILE MANAGEMENT SYSTEM

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Abstract

[1][2][3] Stockpile Management provided lots of facility to their user. the target and scope of Stockpile Management is to record the details various activities of user. it'll simplifies the task and reduce the paper work. During implementation every user are going to be given appropriate training to suit their specific needs. Specific support also will be provided at key points within the tutorial calendar. Training will be provided on a timely basis, and you may be trained because the new is Stockpile Management extended to your area of responsibility.

Keywords: Introduction, Modules, Design, Future Scope, Technologies Overview, Process Model Used for our Project

Introduction

[1] The stockpile management ensures that the corporate always has the specified materials and products in hand while keeping the value as low as possible. Stockpile Management refers to the method of supervising and controlling the stock items of a corporation. Typically, it's utilized by firms that either sell a product or manufacture a product for the aim of accounting all the tangible goods that yield a procurement of a finished product, or parts for creating a product. Smart Management System is an internet software application which fulfils the need of a typical Stock. It provides the interface to users in a very graphical thanks to manage the daily transactions additionally as historical data. This application maintains the centralized database in order that any changes done at a location reflects immediately. this can be a web tool so quite one user can login into system and use the tool simultaneously. The aim of this application is to scale back the manual effort needed to manage transactions and historical data used. Also, this application provides an interface to users to look at the main points just like the daily Stock Statements.

Project Overview

[2][3][4] It was decided to use good Software engineering principals within the development of the system since the corporate had quite a big Stock management & was reaching to add new stocks & employees & expand their operations within the near future. that the following Project Plan was drawn up: The Analysts will interact with the present manual system users to induce the necessities. As an element of this the necessities Specification Document are created. A stockpile management system project that enables user to manage and maintain his/her stockpile with ease. The stockpile management system has been developed to permit users to feature a product, delete a product, enter stockpile quantity and other details, update stockpile status and more. The stockpile management system has its own intelligently managed web that permits user to look at and manage various product added within the system.

Purpose

[2][3][4] The most purpose is to assist businesses easily and efficiently manage the ordering. To stay a record on stocks that are available. Reviews or feedback can help customers to create a choice of shopping for the respective materials and stocks.

Problem Statement

[2][3][4] The problem faced by various companies are they do not have any systematic system to record and keep their stock data. It is difficult for the admin to record it quickly and safely because they only keep it in the logbook and not properly organized. The company problem is they use chaos system and it is difficult for the admin to estimate their profit. With the new system developed, the company can manage their data easily, quickly and more secured. To record the data will cost a time. Admin of the company is only one person so he needs to record every stock detail clearly or else it may lead to lack information about the data. With this system, it will help the admin more on the security of the data

Existing System

[2][3][4] Current system is a website in which user will be able to purchase the product of his own choice by comparing with the prices of the same category product of other brands. The website will be maintaining covid essentials such as mask, sanitizers, hand gloves, medicines, handwashes etc. of different brands for ease of the customer(user).

Proposed System

[2][3][4] The main purpose is to help businesses easily and efficiently manage the ordering. To keep a record on stocks that are available. Reduce human efforts and errors while managing stock. Comparison between the product with its respective cost becomes easy, so user can make a wise choice of selection as per the need. We also keep a record on cash flow, so we can also find out the day's revenue as the data is centralized it is very easy to maintain the stocks of the various items.

Modules

Product Management

Product Management is a central repository for product and market data for Sales, Marketing, Development and other departments. Over the product-market lifecycle, Product Management is answerable for

identifying and supporting the event of desired, practicable, viable, and sustainable products that meet customer needs.

Monitor and Categorize Product

And once you understand and control your production process from commencing to end, only two things can happen: higher product quality and happier consumers.

Sales and Stocks Management

Stock management may assist you in determining what quantity goods you would like available at any one time. This helps to avoid product shortages and allows you to possess merely enough inventory within the warehouse without having an excess.

Security management

Customer must create its own REGISTERATION ID just in case of first-time registration by filling the respective information. If already registered, login page will pop and user(customer) can login with user id and password. Also, there's a login facility for admin to access the database and maintain covid essential stock for the convenience of customer.

Technologies Overview

PHP

[10] PHP began out off as a tiny low open supply challenge that developed as increasingly more humans found out how beneficial it simply was. Rasmus Lerdorf unleashed the primary model of PHP manner lower back in 1994.PHP can be a recursive acronym for "PHP: Hypertext Preprocessor".PHP is likewise a server aspect scripting language this is embedded in HTML. it is accustomed manipulate dynamic content material, databases, consultation tracking, even construct whole e-trade sites.

Use of PHP:

PHP plays device features, i.e., from documents on a device it is able to create, open, read, write, and close them.PHP can cope with forms, i.e., collect information from documents, keep information to a file, thru electronic mail you may be equipped to ship information, go back information to the user. You upload, delete, regulate factors inside your database thru PHP.Access cookies variables and set cookies. Using PHP, you will limitation customers to get entry to a few pages of your internet site. It can encrypt information.

Three Characteristics of PHP:

Five essential traits make PHP's realistic nature possible

Simplicity, Efficiency, Security, Flexibility, Familiarity

Figure 1:[10] PHP Guide for Beginners

CSS

[08] CSS (Cascading Style Sheets) may be a stylesheet language want to design the webpage to form it attractive. the explanation for using this is often to simplify the method of creating web content presentable. It allows you to use styles to websites. More importantly, it enables you to try and do this independent of the HTML that creates up each web content. There are three kinds of CSS which are given below: Inline Internal or Embedded External Basic Format: it's the fundamental structure of HTML webpage and that we use CSS style inside webpage. in a very web content, we use internal
CSS (i.e., adding CSS code inside tag of HTML code).

MySQL

[09] MySQL server preferably be a open-source database management system which can well be a significant support for web based applications. Databases and related tables are the foremost component of the many websites and applications because the data is stored and exchanged over the web. For of these reasons, MySQL server becomes the default choice for web applications. MySQL server is employed for data operations like querying, sorting, filtering, grouping, modifying and joining the tables. Before learning the commonly used queries, allow us to scrutinize style of the benefits of MySQL.

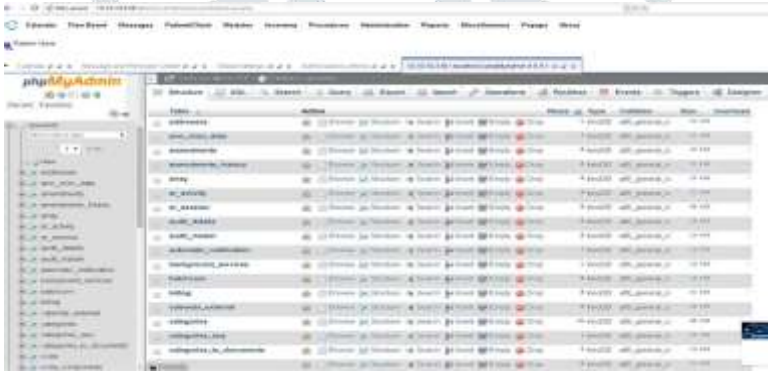

Figure 2:[11] MySQL using phpMyAdmin

Design

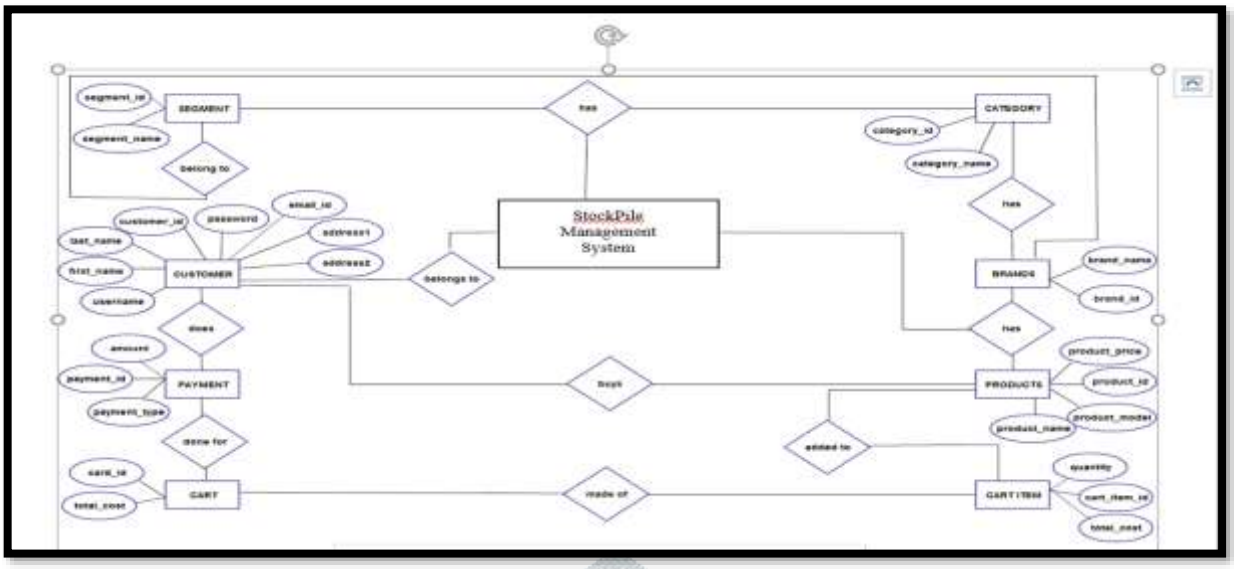

Figure 3: E-R Diagram for Stockpile Management System

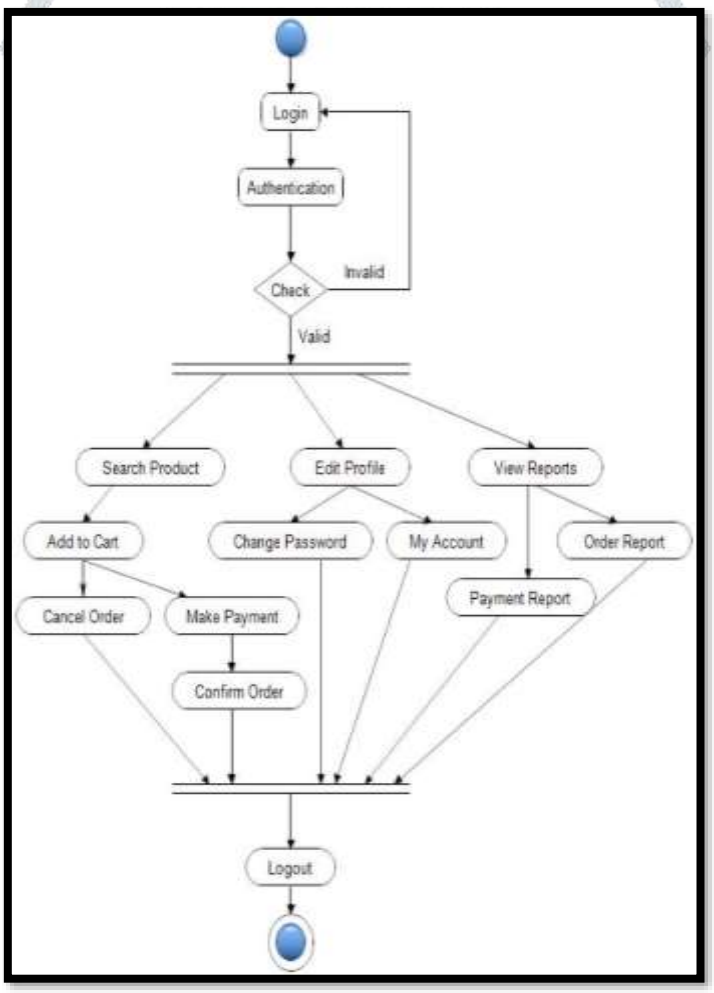

Figure 4: Working for Stockpile Management System

Process Model Used Our Project

[12] The waterfall model is that the software development life cycle model. it's very easy and easy. It is vital because all the opposite software development life cycle are supported the classical waterfall model. The waterfall model divides the life cycle into a group of phases. Waterfall model considers that one phase may be started after the completion of the previous phase. that's the output of 1 phase are the input to the

following phase. Thus, the event process is considered as a sequential flow within the waterfall. Here the phases don't overlap with one another.

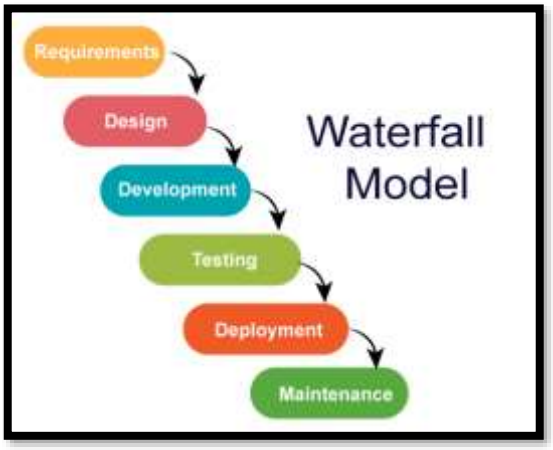

Figure 5: [13] Waterfall Model Steps while Developing Stockpile Management System

Advantages & Disadvantages of Stockpile Management

[1] **Advantages**

- The following are the benefits of proposed system
- Easy to manage all the daily transactions
- Can generate required reports easily
- Easy to manage historical data in a very secure manner
- Centralized database helps in avoiding conflicts
- Easy to use GUI that doesn't requires specific training.
- Each material may be procured within the most economical quantity.
- Purchasing and stock control people automatically gives their attention to those items which are required only are needed.
- Positive control can easily be handled to take care of the inventory investment at the desired level only by calculating the predetermined maximum

[2] **Disadvantages**

- It will be inconvenient for the customer(user) as well as the admin if the server crashes down.
- If database is not maintained properly, it will also create some issues.

Output

Figure 6: Main Page of Stockpile Management System

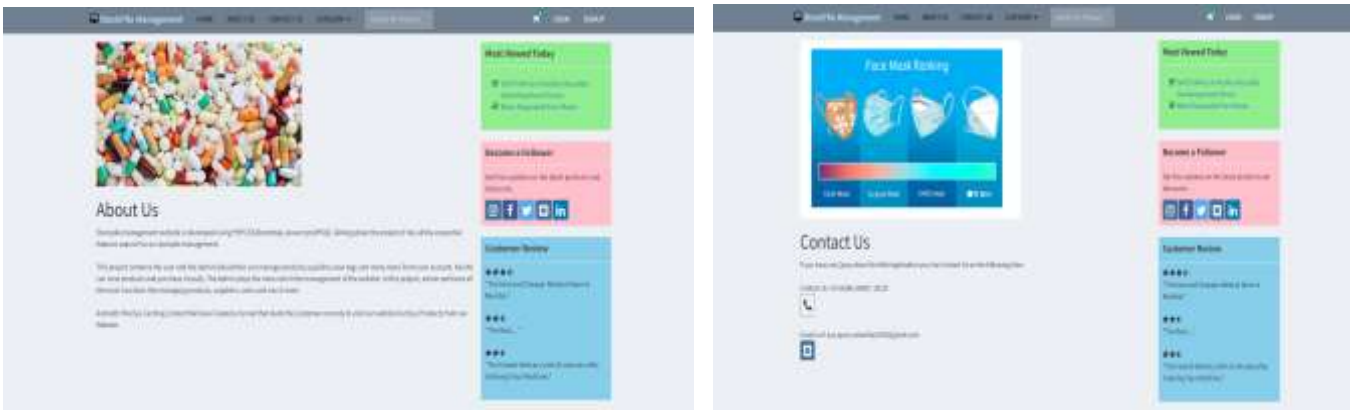

Figure 7: About US & Contact US of Stockpile Management System

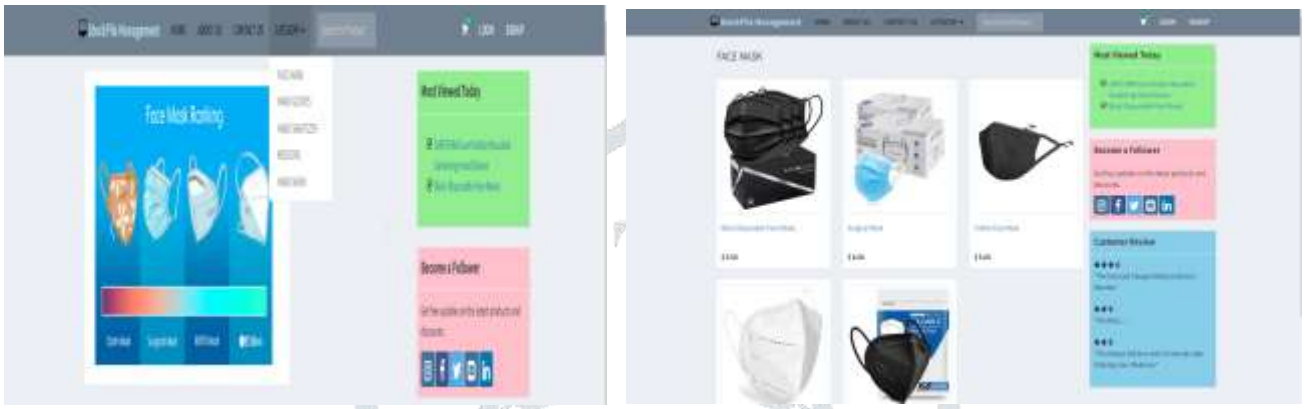

Figure 8: Category & Product of Stockpile Management System

Figure 9: Adding Product & Cart View of Stockpile Management System

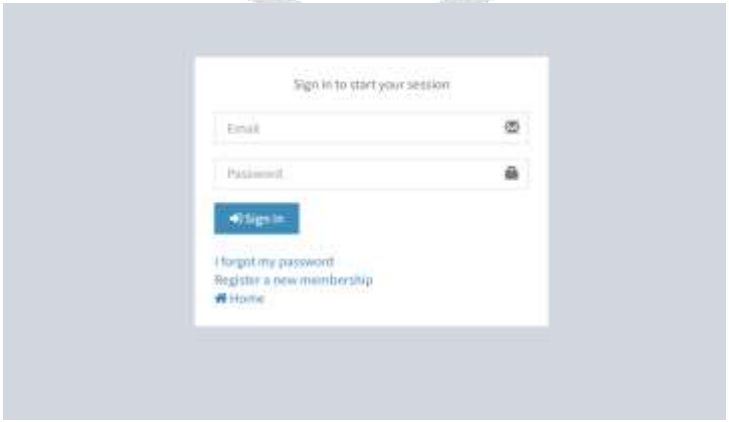

Figure 10: Sigin or Login/Logout Tab of Stockpile Management

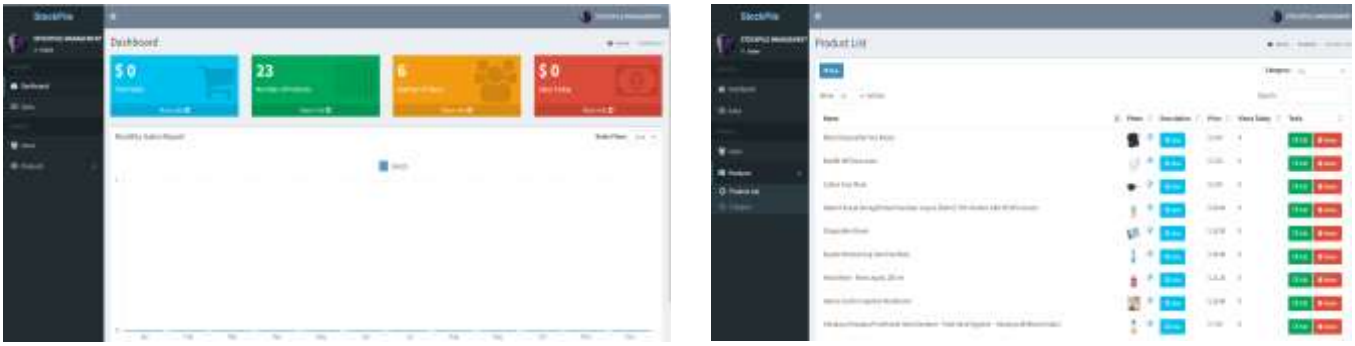

Figure 11: Admin Dashboard of Stockpile Management

Future Scope of Stockpile Management

The future of the project goes to be flooded with updates in technology The scope of an stockpile system can cover many needs, including valuing of the stock, measuring the change and planning for its future levels. The value of the identical, at the top of every period provides a basis for financial reporting on the record. Measuring the change in inventory allows the corporate to see the value of stock sold during the amount. This will allow the corporate to plan for future inventory needs.

Conclusion

The website is intended in such some way that future modifications will be done easily. The following conclusions will be deduced from the event of the project. Automation of the complete system improves the efficiency. It provides a friendly graphical computer programme which proves to be better when put next to the prevailing system. It gives appropriate access to the authorized users counting on their permission.

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