



Chemical Dept Stock Management System

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Abstract: In this project i have created a website for the purpose of request and stock management For chemicals of the corresponding Department. This Website is used to calculate The Stock Availability of materials used in the labs of the Respective Department. we can add the user data who maintain the stocks. it is easy for the maintenance than the manual records. Users can directly request the unavailable materials to the corresponding higher authorities through this website. users can also able to view the request status. the request will be processed based on the hierarchy level. there are seven hierarchy levels. the request letter can also get printed for the official use. user can able to easily view the stocks. the data can be easily modified in the respective menus. a new item can also be added in the list. New features are added to this website to make the user more convenient to use. this website is just a runnable prototype for real time project where the website can be actually implemented and used in the real time environment. inventory management system plays a main role in the supply chain management system.

Background:

As far discussed in my college the inventory management system has several drawbacks. the stock management system maintained in my college are maintained manually so it was too difficult for the admin. The stocks are maintained by the paper and files format. it was too risky in the security of the data. so for the outcome of the several drawbacks in the existing inventory management system in my college i have created a website. the information are maintained in the server so the database has higher security compared to the previous version in this website the admin has given certain role to be performed. i have used try catch method in this website which helps the website to run without any error. entire stock system can be maintained online.

Keywords: Stock management, Offline Website, Stock request, Admin, Faculty.

I. INTRODUCTION

Nowadays in our day to day life everything is online. Right from ordering food to reserving seats in restaurant, from buying clothes to booking tickets. One can do all their work online without being physically present. keeping the online concept in my mind i have developed a 'College Inventory Management System Website'. as name given The website which is used to give feedback in the college. A inventory management system is much important in the college which helps to maintain the stocks by the website. the security of the data is high compared by manual. the website currently is only for a particular college named "Karpagam Academy Of Higher Education" Located in Coimbatore. The Main motive of this website is to maintain the entire stock management by online format

II. MATERIAL AND METHODS

This project Is Implemented Using Microsoft Visual Studio. thus i used visual Studio2022 Which is the latest version of the Visual studio. In this project we have used three Main modules Namely Admin, Faculty And Students. We have Used Visual Studio For The c# Coding Which is used in this website. We have used mysql for Storing The database like The Feedback data's Given By the student And faculty

Microsoft Visual Studio : Visual Studio is a Integrated Development Environment Program Which is a Creative Launch pad Use to edit, Debug And Built code, And then publish an app. basically it is a website development Application. It supports various Languages Such as c#,html,sql,php,python,java,etc...

MySQL:MySQL is an open source relational database management system (RDBMS) based on Structured Query Language (SQL). MySQL runs on virtually all platforms, including Linux, UNIX and Windows. Although it can be used in a wide range of applications, MySQL is most often associated with web applications and online publishing.[6]

III. LITERATURE REVIEW

This paper provides an overview of the inventory management system of the respective department in the college. there are two different types of module used in this website namely admin module and staff module. where



the staff module can able to maintain the stock of their respective department. staff has the permission to edit the stock details in the website. as well admin are used to approve the stock request given by the faculties staff module contains request section which allows the staff to directly request admin on the closed stock items this website is used to calculate the stock availability of the materials used in the labs of respective department we can add the user data who maintains the stocks here we can add the respective staff details who previously maintains the stock details. it is easy for the maintenance than the manual records. users can directly request the unavailable materials to the corresponding higher authorities through this website. users can also able to view the request status. the request will be proceed based on the hireachy levels. the request letter can also get printed for the official use. faculty can allowed to add the stocks easily. the added data can be modified in the respective menus. a new item can aslo be added in the item master menu. new features are added in this website which make the faculty to make the work much convenient easier. the importance the inventory management system is to work towards the perfect order metrics. there has to ba aggressive inventory management an updating standards to perfect synchronization, damages and unusable products, days in supply, the ordering time cycle, and shelf level of service. Inventory problems of too great or too small quantities on hand can cause business failures. If an organization experiences stock-out of a critical inventory item, production halts could result. Inventory management indicates the broad frame work of managing inventory. The inventory management technique is more useful in determine the optimum level of inventory and finding answers to problem of safety stock and lead time. Inventory management has become highly developed to meet the rising challenges in most Corporate entities and this is in response to the fact that inventory is an asset of distinct feature.

IV. PROPOSED SYSTEM

This updated Version of this website has overcomes all the drawback and give best performance. The inventory management system aims to maintain the stock details of the respective deapartment through online. entire proposed system is about conversation of the existing system into online method. faculty can able to login with their respective login information. same procedure is followed for the admin module

The Following Modules Are Implemented :

1. ADMIN : This Module provides The functionalities like view stock details, view request letter, approve request letter, reject request letter, print request letter
3. STAFF : It is used by the staff to maintain the stock details of the respective department. staff can also send request on the closing stock details for the expiremental purpose

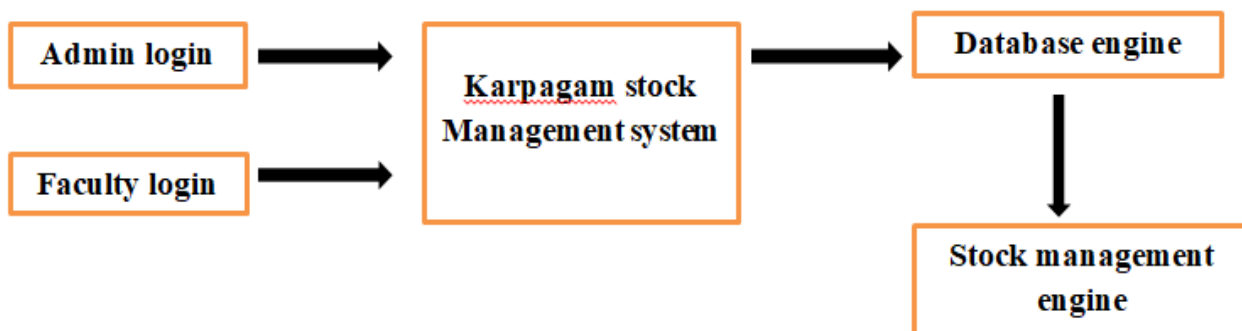


Fig. IV. a. Implementation

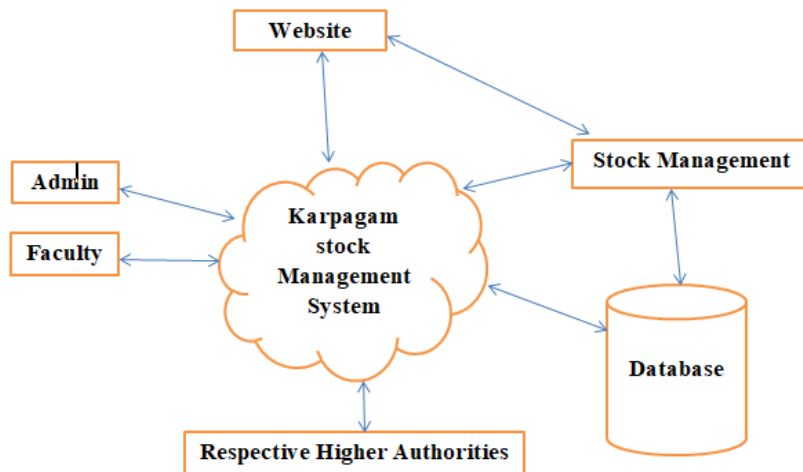


Fig. IV. b. Block Diagram

Modules

ADMIN MODULE :

Firstly admin data has to be registered r added to the database. only the registered admin can be login to the adm in module. in the dashboard all the requirments for the admin management will be displayed. work of the admin is to approve the stock requests given by the faculty from the respective department. admin can als0 able to view the stocks maintained by the faculty of the respective department. the request letter are printed in the admin module

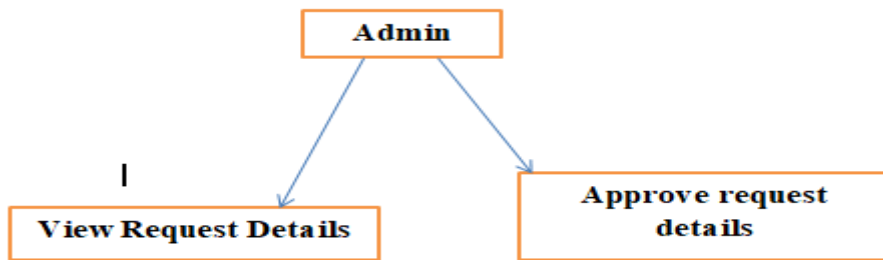


Fig. IV.c. ADMINMODULE

FACULTY MODULE:

Here the respective faculty of this website login with the proper login information. faculty will maintain the stock details of their respective department. staff can able to request the stocks they needed for the lab usage to the respective higher authorities. request letter is available in the request module in the faculty login.faculty can able to view the progression of the letter. entire stock system can get downloaded in the excel format.

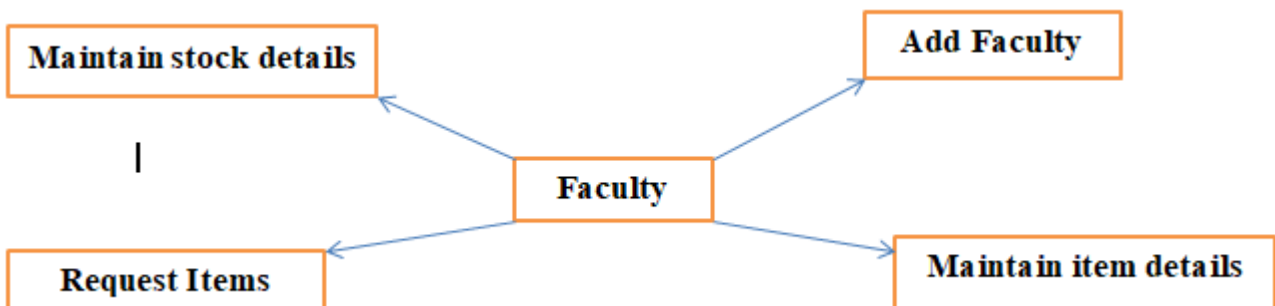


Fig.IV. d. FACULTY MODULE

**V. CONCLUSION**

In this project i have done a deeper understanding about the concept of inventory management system. the inventory management system is developed to make the stock management process easier. if the stock management is online faculty can easily able to maintain the stocks through the website. It has higher security compared to manual stock management process faculty are allowed to request the unavailable materials through this website to the corresponding person
So this portal can help the faculty to overcome all the difficult faced during the manual processing system

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