All-in-One Inventory Management System

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Abstract - This System helps in creating and managing a data repository of the inventory pertaining to the hardware and software of IT resources in an organization. This System helps in creating and managing a data repository of the inventory pertaining to the hardware and software of IT resources in an organization. The IT inventory list basically consists of computers, monitors, software, network devices, printers, plotters, scanners, cartridges, etc. Asset Management, which has two major components, an application to maintain the inventory data pertaining to the installed hardware and software of a computer and its associated peripherals, and second component named which helps in the management of these inventories. The Second module makes use of the data captured by the First and the financial and commercial data pertaining to the inventory. The financial details include data on invoice, warranty, AMC and the commercial details include data on suppliers, contacts, contracts etc. The financial and commercial data have to be entered manually into the System. The data captured could be imported into System; also manual entry of inventory data is possible in the Software.

1. INTRODUCTION

1.1. INTRODUCTION & OBJECTIVE

This System helps in creating and managing a data repository of the inventory pertaining to the hardware and software of IT resources in an organization.

1.2. PURPOSE OF THE PROJECT

This System helps in creating and managing a data repository of the inventory pertaining to the hardware and software of IT resources in an organization. The system will maintain the All information about organization digital asset i.e. Computer, Laptop, Projector etc. It maintains the Asset Invoice Details. The system automatically giving warnings on home if any software expires like antivirus Software and also it maintain all Branch Details, floor details and Asset Details.

1.3. PROBLEMS EXISTING SYSTEM

The Current system gives us very less security for saving data; some data may be lost due to mismanagement. Searching of particular information is very critical it takes lot of time. It is very critical to maintain records manually for physical devices of a computer. Because organizations contains computers on different configurations. In the market computer devices are provided by different companies, manually handles these records is not an easy job.

1.4. SOLUTION OF THESE PROBLEMS

• Reliability: The project performs intended function with required precision; hence this project is very reliable.

• Feasibility: The project maintenance is very easy and modifications can be made in the existing system in future. All data will locate as centralized.

• Online Processing: The online processing of the project is very simple following the existing manual method without changes and suitable validation is provided for the easy and correct access of users.

• Security: Security measures are taken to avoid mishandling of database. Password
restrictions are provided to enter into database. A correct password only will access to the database.

2. OVERVIEW OF THE SYSTEM

2.1 NUMBER OF MODULES

- Administration
- Asset Management
- Registration
- Reports
- Authentication

Users:

Administrator
Asset Manager

Administration:

This is the major module in this system. In this module various functionalities will take place. The functionalities like Add Branches, Add Floor, Add Asset Type, Add Asset Details, Add Asset Invoice details and various job Schedules will be added. And also in this module AMC Contract details will be added and various will be generated.

Registration:

This is the module registrations will take place. The system providing online registration. As user (Asset Manager) will send registration request to the system. At the time of registration the user has to provide the detail information about himself and he has to upload his photo also. Further the user has to get acceptance from system for login access

Asset Management:

This is the module where various digital asset information will maintain.

In this Module asset type details will be added into the system. Further Asset details will be added. The system maintains the information about asset Invoice details like sellername, date of purchase etc. Later these assets are located in different branches in different floor. All these functionalities will be done under this Module

Reports:

This is the module under this various reports will be generated. Reports like Branch reports, Floor Reports, Asset Type like computer, Laptop, Projector etc. By this reports the management knows detailed information about organization. From these the management will take precious decisions for further implementation.

Authentication Module:

This module contains all the information about the authenticated users. User without his username and password can’t enter into the login if he is only the authenticated user then he can enter to his login and then he will have authorization based upon their roles.

Admin:

He is the super user of this application. To perform his functionalities he has to provide his credentials. He is having major responsibilities in this application. He is eligible user to accept the user registration details. He is eligible person to add the branch details, floor details, asset details, AMC Details and Other Job Schedules like Antivirus details, system Cleaning Details. And also he can view the various reports like Branch reports, Floor reports, Asset Type reports.

Asset Manager:

In this system the second user Asset Manager. Every Branch will have Asset Manager. He handles all assets on his Branch. To login to system he has to get the acceptance from the admin. After that only he can perform his functionalities. He can update his personal data and he can change his password also. He can view the details Asset Allocation details and also he can modify asset location from one place to another in his branch. He can view AMC Details and also he can view job Schedules that added by admin. Job
schedules like Antivirus details, system Cleaning Details etc

2.2. PROPOSED SYSTEM

The proposed project is a single centralized framework. To overcome the problems in existing system developed this application data should maintain in centralized database. By this any where the authorized persons can view their information either it is personal or business matters by based on their roles and permissions

The system gives permission to Asset Manager. He is authorized person to view branch Asset details and other job Schedule Details

2.3. INPUT AND OUTPUT

Inputs and Outputs

The following some are the projects inputs and outputs.

Inputs:

- Admin enters his credentials.
- Admin selects On-Line Registration Request.
- Admin enters Branch details in to system
- Admin enters Floor details into system
- Admin add the asset Details into the system.
- Admin enters the Asset Invoice Details
- Admin add the job schedules like Antivirus Schedules, System Cleaning.
- Admin add the AMC Contract Details.
- Admin select for various reports like. Branch, Floor, Asset Type
- Asset Manager Enter the his Credentials.
- Asset Manager enters his details to update Personal Data.
- Asset Manager selects to view the Job Schedules.
- Asset Manager select for various reports.

Out Puts:

- Admin will get his home page.
- User Registration Acceptance updates in database
- Branch details stores in centralized database.
- Floor details stores in centralized database.
- Asset details stored in centralized database.
- AMC details stores in centralized database.
- Admin view the various reports.
- Asset Manager will get the Home Page
- Asset Manager can view the various Job Schedules.
- Asset Manager can view the various reports.

3. SYSTEM DESIGN

Fig 3.1: Usecase Diagram
4. OUTPUT SCREEN SHOTS

Fig 3.2: ER Diagram

Fig 3.3: Output Screen Shots

Fig 3.4: Admin Home Page

Fig 3.5: Registration Form Page

Fig 3.6: User Home Page

5. CONCLUSION AND FUTURE ENHANCEMENT

It has been a great pleasure for me to work on this exciting and challenging project. This project proved good for me as it provided practical knowledge of not only programming in ASP.NET and C#.NET web based application and some extent Windows Application and SQL Server, but also about all handling procedure related with “SCMS”. It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently.

BENEFITS:

The project is identified by the merits of the system offered to the user. The merits of this project are as
follows:

- It’s a web-enabled project.
- This project offers user to enter the data through simple and interactive forms. This is very helpful for the client to enter the desired information through so much simplicity.
- The user is mainly more concerned about the validity of the data, whatever he is entering. There are checks on every stages of any new creation, data entry or updation so that the user cannot enter the invalid data, which can create problems at later date.
- Sometimes the user finds in the later stages of using project that he needs to update some of the information that he entered earlier. There are options for him by which he can update the records. Moreover there is restriction for his that he cannot change the primary data field. This keeps the validity of the data to longer extent.
- User is provided the option of monitoring the records he entered earlier. He can see the desired records with the variety of options provided by him.
- From every part of the project the user is provided with the links through framing so that he can go from one option of the project to other as per the requirement. This is bound to be simple and very friendly as per the user is concerned. That is, we can sat that the project is user friendly which is one of the primary concerns of any good project.
- Data storage and retrieval will become faster and easier to maintain because data is stored in a systematic manner and in a single database.
- Decision making process would be greatly enhanced because of faster processing of information since data collection from information available on computer takes much less time then manual system.
- Allocating of sample results becomes much faster because at a time the user can see the records of last years.
- Easier and faster data transfer through latest technology associated with the computer and communication.
- Through these features it will increase the efficiency, accuracy and transparency,

LIMITATIONS:

The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.

Training for simple computer operations is necessary for the users working on the system.

FUTURE SCOPE:

- This System being web-based and an undertaking of Cyber Security Division, needs to be thoroughly tested to find out any security gaps.
- A console for the data centre may be made available to allow the personnel to monitor on the sites which were cleared for hosting during a particular period.
- Moreover, it is just a beginning; further the system may be utilized in various other types of auditing operation viz. Network auditing or similar process/workflow based applications.

6. REFERENCES


About Authors:

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