Aasthi – Asset Administration System

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Abstract: Web Development is skill that is used to develop the web application, web development is rapidly growing as the technologies are also. A web developer should develop an application based on the client requirement and must be friendly and easily understood by the client or the users. AASTHI-Asset Administration System is the web application that is relevance to the asset management system in which plays typical role in the organizations and enables to computerized system widely spread which is used for the private network, communication between the members of an application, sharing the information between different users or members, automatically estimating the depreciation amount per annum is very important thing that has been focused on. The main theme of our paper AASTHI-Asset Administration System is to focus on the asset, license and to maintain the company environment. The procedure to calculate the depreciation amount of the asset is difficult and been estimated through the category of asset, asset type, asset devices, etc. In this paper work is focused on staff, vendor and allows them to communicate through the application called AASTHI which is Asset Administration System.

Keywords: Administration, Asset, License, system.

I. INTRODUCTION

Web Development, a creative work this involves developing a various website for the unique fields like company, institutions, organization, shopping, e-commerce, finance, banks, social network services, applications, etc. through internet and intranet. A Web development involves developing the static pages, dynamic pages depending on the type requirement of an application from the client.

Web development is also called web programming that enables the developer for the creation of the dynamic web applications and simple websites.

Our paper title “AASTHI Asset Administration System” is web-based application that plays an important role in the organizations. The main objective of our paper AASTHI is to enable computerized widely spread which is used in private network, communication between administrator, vendors and the staff member of the particular company. Information sharing between the different modules, viewing different documents, records of assets and to fulfill the basic requirements of the company, the prescription of asset and prediction of the asset will be generated through our paper website. The most important thing that remains in our paper is the depreciation value in which the value of any asset doesn’t remain the same in all period so that it is important for the calculation and amount reduced at various periods like per annum.

Our paper involves the asset details of the organization that has three different modules such as admin module that plays very important role in our paper and monitors the content and members, admin has the privileges like adding, viewing, deleting, sending notifications for the staff and vendors, and admin can access the details of an any assets, license and also can perform some operations on the assets, license by administrator, staff and vendors assets, and only an administrator can insert the staff member and their details. The next module is staff module this includes the staff member added by the administrator of the application. Staff can perform few operations like specifying the assets, enables to provide the details about the assets and can view about the status about the assets, and in every module, the staff is allowed to get the notifications from the admin and the various member, when admin refers the vendor the particular staff member is allowed to contact the particular vendor so that the staff are enabled to know the status of the asset and the license. And the next module is vendor module that includes the details of the vendor and assets to solve by the vendors. An admin refers the assets to vendors to perform the task provided by the admin and staff. A vendor can view the details of the assigned asset.

AASTHI Asset Administration System is complete application that provides the details of the assets, product license and agreement details, etc. Our paper manages and maintains the complete asset and the environment of the organization and that makes easy for the staff to provide the details about the asset they required without often contacting to manager or the team leader.

This paper describes the two main categories of the application called IT and NON-IT, here in the IT category there includes the many asset like electronics asset, software, hardware, peripherals, computers, etc. and the components in IT assets like laptops, desktop, mouse, keyboard, personnel computers, television, wireless devices, printers, semi-conductors, scanner, 3D-printers, color-printers, paper or, VoIP phone, PBX phone, FAX, routers, LAN, calculators, windows, keyboard, and many other IT components that are required in any company. The NON-IT includes the tools type, furniture, equipment, etc. and the components like tables.

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chairs, file cabinet, table light, bulletin board, mission board, wall hangings, pens and papers, clocks, notebook and sticky notes, trash bin, etc. They manually can specify their requirements, complaints, details about the IT and NON-IT asset components, software product license details and notify to requirement to the admin. Admin is enabled to interact both with staff and vendors.

The proposed paper is that it’s very difficult to often specify the asset in various department by the staff members and difficult to find the vendor details. So, this application enables the administrator to easily contact the staff and the vendors. It helps to follow the ethics and the good environment in the company. Our application focuses on the time saving regarding asset in the company and to provide the proper financial details, asset general information about asset, service information, notes and asset attachment.

II. LITERATURE SURVEY

A. Existing System

Asset Administration System, a collection of huge data and information about assets that is being stored so, that is inefficient to manage bulky information and data in existing system and store the data in the various files. As there is a lot of department in the company and been located at different places. There might be chances of saving the same record in various departments and causes redundancy.

One of the major problem that very big company and the small company is that they are not enabled with the good asset management, changing the nature and working of the asset, and financial issues regarding the asset that they can’t properly maintain the budget in the company environment procurement predicament and the budgetary blindness, discovering assets manually makes the staff and the manager lost in time, couldn’t able get notification when the product license is expired and couldn’t able to find the depreciation amount of asset, losing the asset through the misplacement, asset outs untimely or due to excess productions, difficult to lower the cost and overall maintenance, tough to reduce labor time, efficiency boosting and productivity of various tools, frequently breakdowns in the assets, lack of meeting regular certifications, fail in event because of tool unavailability, no reliability, etc. in existing system of asset management system survey about that says that it difficult to store the voluminous amount of data in back-end. When asset plays a very important role in all the companies and various organizations, lack of maintenance and support to the asset as it is difficult to maintain the financial details up to date. And testing whether the product license and the depreciation value of the asset is difficult, unavailable information about status of the asset in which all the asset is been deployed, not deployed, pending, ready to deploy, lost/stolen, not fixable, etc. Its very rare to get proper asset exact information and the work on asset fixation is been delayed due to improper communication between the staff, vendors and the administrator. As huge amount of data been stored and recorded time consume is more. Reliability is less, redundancy happens because of repeating the same kind of information repeatedly and Security and authentication problem.

B. Proposed System

By looking all the issues facing by the existing system our paper title called AASTHI provides clear and good interface that admin, staff and vendors can easily understand. And the status of the asset like whether it is deployed, not deployed, pending, ready to deploy, non-fixable, lost/stolen can be retrieved easily. An asset stores the very voluminous amount of data in an existing system so it makes redundancy problem so this is been clear in our application. Our paper AASTHI Asset Administration System is time consume less time in which the admin saves the staff information, vendor information and through this the staff and vendor gets the message through their email id in which staff and vendors can set their required password through their email securely thus it is highly secured authentication. Only an administrator can add staff and the vendors so that there are no chances of others/strangers can access to our application (only an authenticated staff, vendors added by the administrator can go through their modules and insert their asset and product license). Admin monitors the whole application an admin has all the privileges on application.

When comes to financial aspect it is difficult to estimate the depreciation value of asset as its category, type and the components are different so this problem is been fixed by our application by prediction and few different methods to calculate the depreciating value. Product license is been identified and notified when the expired date reaches and even the admin, staff and the vendors are enabled to check the license date purchase date and can also search the product by date and product-id.

The report is been generated for the asset like when the asset is inserted the general information, financial information, notes, attachments, history and the services by the vendors and service date, etc. frequently breakdowns in the asset in which the status of the asset will change and never remains constant so it is importantly considered and been fixed by our paper application. It reduces the labor time down. Cost and the overall maintenance of the asset is been reported and recorded as its very rare to gain access of the proper details. This application is highly reliable, well authenticated, good user interface.

C. System Architecture
application is been divided into small parts and could able to attain the functioning of our application in this we are using the three modules and there functioning and represented that in the system architecture and in which the all the details and the information by the three different members is been saved in the database through website.

IV. DETAILED DESIGN

A. Sequence Diagram

Fig. 2 Admin Sequence Diagram

V. IMPLEMENTATION

When developer works on the development field it is very important to consider the implementation field where it helps to develop the theoretical design and that will be generated as the system successful and work on the system practically. Developer must be confident while developing the website, implementation includes the interface design for our paper and thus, the interface been developed in a user-friendly, attractive and focus on the paper to execute properly so when designing the paper, you should take care of the paper components properly. Non-visual and visual representative for the social event mechanism interface has been designed with all the functions as user expectations. A design of user interface must be friendly like it must be understood easily and their functionality by the interface. Here it provides the complete information

Fig. 3 Admin Dashboard

Fig. 4 General/Notes/Attachment/ History Information of asset Page
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VI. RESULTS

Our paper Asset Administration System provides complete convenience, user-friendly interface and very informative on various asset are the important feature of our paper. The main theme of our paper is to maintain asset, details and information of asset properly. To check the product expiration license and thus, notify to an administrator. Our paper enables to maintain a company environment and ethics and most importantly it saves lot of time and money regarding asset as it provides the details about asset financial information and service information.

VII. CONCLUSION

To showcase any information website way to do that regarding AASTHI Asset Administration System has to be a website where it is used to provide a various type of services in different cases like asset information, product license details, reports on asset and many more with respective to asset and company. Our paper asset management is mainly focusing on the drawbacks of the existing system and is developed with real flexible in a proposed system. The main theme of our paper is to maintain asset, details and information of asset properly. To check the product expiration license and thus, notify to an administrator. Our paper enables to maintain a company environment and ethics and most importantly it saves lot of time and money regarding asset as it provides the details about asset financial information and service information. It is been interconnected to the various departments of the company under integrated network. Application is processed online that following the drawbacks of existing system. Some important features are considered in this paper such as security, data management and financial aspects.

VIII. FUTURE ENHANCEMENT

In our paper considering the drawbacks of existing we are here trying to build advance asset management system in a proposed system and to solve all the aspects of an existing system. In our paper Asset Administration System, we are here solving the category of NON-IT asset rather than the IT asset and to add a product license details and when a expiration date is reached then notification to user and a staff is been added so that a company software or product can be upgrading to a new version of software that makes the staff member to executing. Depreciation value is calculated based on the different types of formulae applied on the system and components based, calculating a depreciation value with exact result. And the prescription and prediction on asset and product license is manipulated by administrator and staff to their respective module and report. A report is generating based on dates, based on expiration, status of asset and cost of asset, etc. in this application here going to add two other important module rather admin called staff and vendor module in which a staff can also be enabled to specify the asset and product license, and a vendor to fix a problem online and allowed to chat with a staff member asset which has been referred by admin. So, our paper brings easy, flexible and reliable.

REFERENCES


AUTHORS PROFILE

Prof. Shivakumara T. working for Department of MCA, BMS Institute of Technology and Management, Bangalore as an Assistant Professor since 2008. He has completed his masters’ degree (Master of Computer Applications) in 2007. Teaching the masters’ degree computer applications courses prescribed by Visvesvaraya Technological University (VTU). Actively involved in teaching-learning process, as an outcome of it he was able to publish 3 text books, laboratory manuals, learning materials in coordination with co-authors in the same field. He has published few national conference papers and journals. His current research focuses on data and information security - data leakage prevention. He has been engaged to create awareness on cyber security-cyber safe Karnataka in association with cyber security center of excellence, Government of Karnataka, to school and college students. He is the member of ISTE chapter. Currently, pursuing PhD in Computer Applications under VTU.

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