

WEB BASED TOOL MANAGEMENT SYSTEM

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Abstract— The aim of project is to develop tool management system that is able to deliver access to anyone authorized organization anytime, anyplace on a perspective device. The system developed make use of rich tools available in the organization. The system shares the advantage of web application, automation, and standardized manner for the tools which is used in the service sector and admin in the organization and removes the disadvantages of the system. The problem solved in this system includes absence of human work to search the database for the tools which is used in the organization for service oriented work. No support for a document type simply means no access to the content of the document. Complexity of various software packages. Different document type use different software package which work in the way differ dramatically, which significantly reduce the usability. Security Virus and Spy ware hidden in the document maintenance. The longer the lifetime of software, more bugs will be exposed. Update and configuration on each organization usage of tool can be a headache. At the end of the project, a web based Tool management system is developed. This system enable user to manage tools within the database with the support of database server is installed. In other word, the only requirements are a server and a web browser.. The study identifies the comprehensive functional requirements from existing Web-based collaboration systems, and finds out new user requirements by way of a Web-based survey in the world. Tool management system is an automated and standardized manner for the tools which is used in the service sectors and admin in an organization. Motivation to develop the project, there is a manual process to search tools in database & stock maintenance for the tools which are used in an organization. Security virus and spywares are hidden in the document maintenance. The longer in the lifetime of software, more bugs will be exposed. Update and configuration of software packages on each organization can be a headache.

Keywords— Automation; Standardization; Tool list; Master tool list; Supplier list

1. INTRODUCTION

Web based tool management systems are designed to manage and store tool information that are used in web-based applications and the organization who having the service sector. By different groups of people such as, seals department, programmers or project managers will be let by tool applications a controlled access to information and automated distribution of information. The objective for collaboration has been: getting thing done faster, cheaper and better by applying their common knowledge, bringing together a selection of resources and attainments in a tool. Because valid collaboration with teams improves productivity, speeds up result-making and optimizes of making a right decisions, it also helps to intercept precious intellectual fortune and time. Web-based tool management system can surprisingly increase performance, productivity and efficiency within an organization. Since web-based applications can be accessed through any web browser, no desktop installation or updates are required. Moreover, developers, who write great code while staying out of the way are able to use it along the distance, while they stay in geographically different place and collaboration between team still exists. Asbefore, tools data were managed mostly by document and the paper record format. Later on management tools and techniques were formalized to more professional and modern solutions. Today's rapid technological advancement, of IT industries, and globalization, tool management solutions are in demand throughout the world as a fundamental force to complete projects within a defined scope, time, and within cost constraints. But what does tool management by itself mean? Tool management is like a series of actions added to a process of getting things done on a project by working with project team members to reach tool schedule, cost and technical performance objectives. Definitely we could say that tool

management is a carefully planned and organized effort to accomplish a specific one-time objective. Later on, quantifying the resources is needed, determining budgets and timelines for completion. We can't forget to mention, that tool management also includes managing the implementation of the tool plan, along with operating regular controls to ensure that there is accurate and objective information relative to the plan, and the mechanisms to implement recovery actions where necessary. For last and maybe the one important thing that tool management includes is risk management of tools.

2. RELATED WORK

Cerise, T., and Turk, Z. (2000). "Prototype Internet Desktop for Engineers." Product and Process Modeling in Building and Construction. Proc., 3rd European Conf. on Product and Process Modeling in the Building and Related Industries, Steiger-Garcia and Scherer, eds., Rotterdam, the Netherlands, <<http://www.istforce.com/cgi/documents/>> This paper presents a conceptual model of metadata-based information system for data exchange among Web-based documents for construction project management. The system extracts useful data from the original documents, re-organizes the information according to specific tasks or users, and displays in an integrated web page. The study identifies the comprehensive functional requirements from existing Web-based collaboration systems, and finds out new user requirements by way of a Web-based survey in Singapore. Based on the requirement studies, a prototype model is developed using Unified Modeling Language (UML). Implementation of the conceptual model applies extensible Markup Language (XML) technology. Discussions on major concerns about information security, data accessibility, and service quality are given. Software project management: from concept to deployment / Kieron Conway.

Scottsdale (Ariz.): Coriolis, c2014Software project management / Bob Hughes and Mike Cotterell. The reliability and robustness of a web based project management system has also been set as the structure of the current thesis.

Finally, a web based project management system has been developed, which highly meets the standards and requirements set by the company. The web based project management system uses an already integrated TRAC application that has improved to suite company's needs. www.swri.org- www.pm-systems.swri.org In addition to scheduling, many project management activities are critical for project success. The SW RI-developed Project Information Management System (PIMS) is an integrated web-based project management tool that allows project managers to coordinate and complete many of these activities online, using any web browser. PIMS supports many functions, such as action item tracking, risk management, online checklists, and document and image management.

3. EXISTING SYSTEM

To manage the tool in an organization by ordering the tools manually to suppliers. Need of requirement are noted in the MS Office software. There may exist some inconsistencies when they use spreadsheet document. Companies are slow realizing that they can't get accurate results, when they manage the tools. There are some drawback in the manual process they are time management will increases more when compare to web application services. Data may be lose due to document method of saving in the system. Auditing is very difficult in this method.

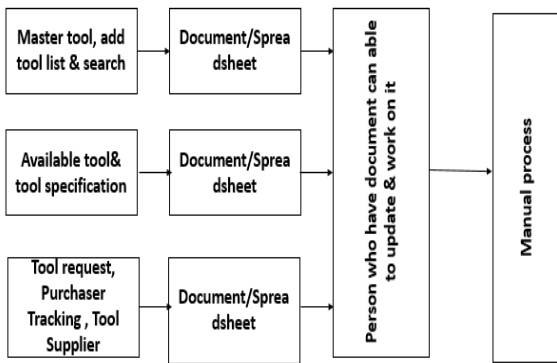


Fig. 1 Block diagram of existing system

4. PROPOSED SYSTEM

Tool management system is able to deliver access to anyone authorized by an organization. Motivation to develop the project, there is no need of manual process to search tools in database and stock maintenance for the tools which are used in an organization. This software can be used to plan, review, order the required tools, update and check the available tools in an organization. After completing the entire tool management system, all customer details and ordered list are collected in master tool list. Analysis report can clearly explain the current status of the company by pictorial representations such as pie chart, bar graph etc., Finally this software can generate a PDF file which consists of entire analysis report of the particular company. There are some

advantage in this method they are time need to complete the work will be decreases in it, auditing is very easy to manage the tool system in any organization. Details are stored in the database it is difficult to delete the details of the tool in the web application. It is easy to maintain the system.

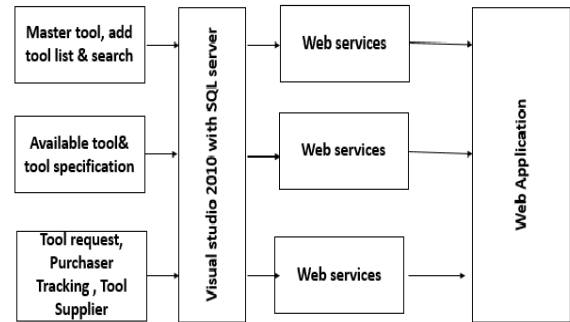


Fig. 2 Block diagram of existing system

5. ADD TOOL MANAGEMENT

It contain three master tables called master tool list, supplier mastertable, and purchase table. In this the tool module contain the add tools to add the new tools in the database ,then the tool specification is used to edit the data in the database by preview option and also used to add the tools by using next option. The master table contain the master table for tool which are all added. In this section the tools will be addedin the database which are all the tools used bythe service team for service and other department also. After tool we will specify the too by updating the tool in the web service.

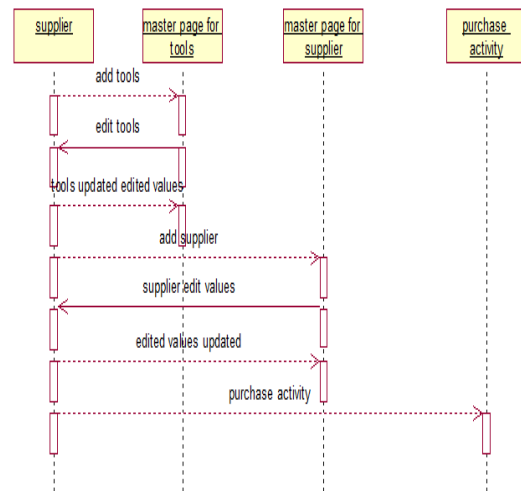


Fig. 3Sequence Diagram

In specification of the tool management, we need the update, next and previous option in the module. All updated details are added in the master tool list. Database will collect the information from the web services and saving the data in the system. Web application for creating the tool management is managing the tool in an organization at anytime and anywhere.

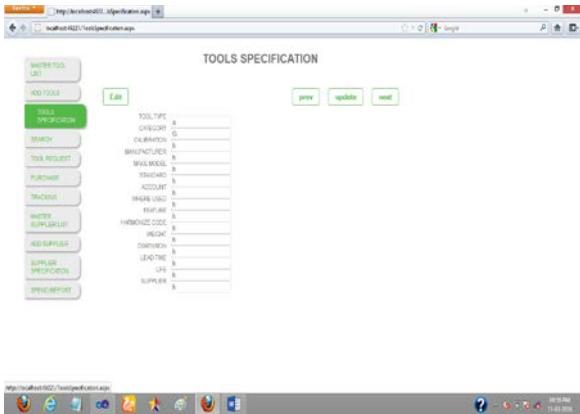


Fig. 4 Tool specification

6. ADD SUPPLIER MANAGEMENT

In this the supplier module contain the add supplier to add the new supplied in the database, then the supplier specification is used to edit the data in the database by preview option and also used to add the supplier by using next option. The master table contain the master table for supplier which are all added. In this section the supplier will be added in the database and it will be explain that who are all the supplier what are all the tools add by them the both data base will be merged together collectively

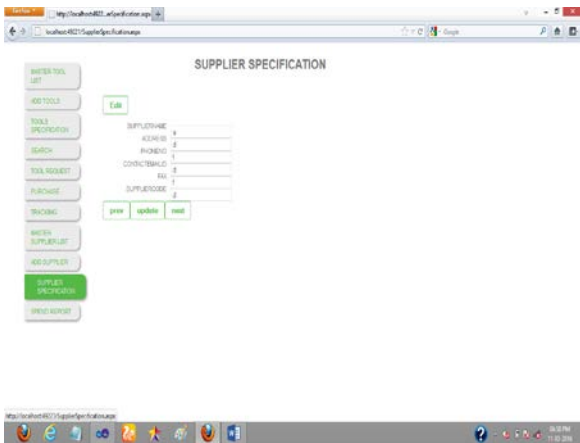


Fig. 5 Supplier specification

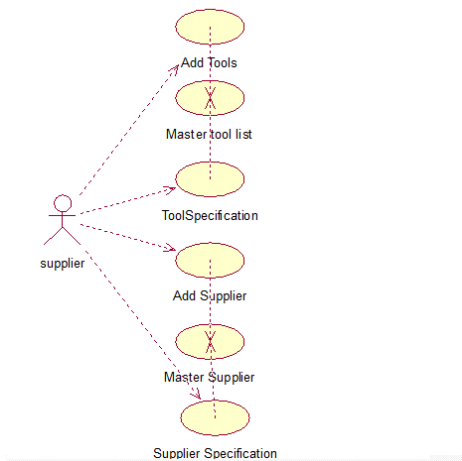


Fig. 6 supplier specification

Produce the data in the master database. After add supplier we will perform the specification operation of supplier to updating the supplier details. All updated details are added and saved in the supplier master list in the system. Database will collect the information from the web services and saving the data in the system.

7. TOOL REQUEST

In this module the name of the requester, date of requester, to whom the tool will be supplied under the details of to whom region, country, address of supplier and supplier details are need to add in the tool request. After finishing it, table are drawn for searching tool part in the online market. In the table, there are five columns they are product, part numbers, description, quantity and comments. After finishing it, submit the details where all these details are shown in the purchasing activity. While searching the product by based on name of the product or b texting the name of the part number in the system. All requested tool are add in the table to show the purchaser activity in the module. Delete and select all option are inserted in the table left corner of future details in the purchaser details.

8. PURCHASE MODEL

In this module the supplier request the form, while he requesting some columns in the form only visible for requestor the it will forwarded to the validator he will validate the form according to the company norms, the form contain the details about the tools and the employee to use the tool. In that some extra column will be visible for the validator, then the validator send the form to the approver to approve that form after approved then it will be transformed to the coordinator to allocate the needed tool for the supplier. While the supplier request for the tool in starting the dummy mail will send to the validator, approver and the coordinator that the supplier will going to order for a tool then they will ready to proceed further. In these purchasing activity we will add some table when compare to tool request they are PO date, PO value, PO No. etc.,

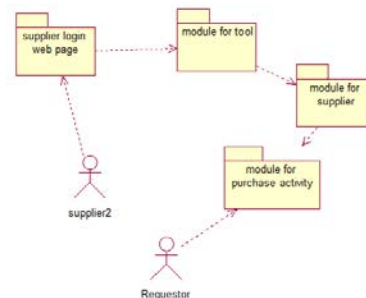


Fig. 7 Purchase activity

```

procedure_read_sup:
CREATE PROCEDURE dbo.procedure_read_sup
AS
BEGIN
Select * from table supplier;

```

END

Procedure store:

```
CREATE PROCEDURE dbo.procedure_store
```

```
AS
```

```
BEGIN
```

```
    Select * from table tools;
```

```
END
```

9. CONCLUSION

The result of the project is described from the perspective of the aim and scope set in the beginning of the thesis. The ideas for the future web-based tool management system are also described here. The aim of the project was to make a complete, fully working web based tool management system for the company. Requirements from the company has been gathered and taken into account. As a good tool management system it has a possibility to add and delete tools and uniformly gives change for developers to be in constant contact with the customer requirements and expectations for the project. User management tool in web based tool management system is a good appliance for keeping eye on the project and for giving rights to different users by system administrator in company. This all makes a complete and good communication system inside company, all data and material will be accessible from one place, to facilitate the solution of a tool and contact communication with a client. Finally, the whole system has been tested to ensure that everything functions correctly before the system processes actual data and produces information that people will rely on. The result of the project responded to the customer's expectations. The company was satisfied with the features implemented and their reliability and robustness.

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