ISSN:2348-2079

Volume-5 Issue-2

International Journal of Intellectual Advancements and Research in Engineering Computations

HP hardware manufacturing maintaining system

[1]Mr.C.Mani,[2]D.Ambili Roja
[1] Associate Professor Department of MCA
[2] PG Scholar Nandha Engineering College
Email: rojadevakumar@gmail.com

Abstract- HP is one of the leading hardware manufacturing company in the IT Industry. HP hardware manufacturing company is placed in various locations all over the world. There the hardware manufacturing details, buyer's details, order details are maintained in the excel sheet and is maintained manually. To overcome this disadvantage this is a web based application for hardware manufacturing maintenance. In this application, the buyer's details are registered. The buyer can be view the product list manufactured by the HP. The order given by the buyer is also maintained in online. The order can be processed by checking the stock in hand for the particular product by the stock manager. And after the hardware manufactured by the department the details of the order can be uploaded in this application. Then the payment can also be transaction through this application by the buyer. Simultaneously the buyer, branch manager can be checking the status of the order in daily basis, weekly basis and monthly basis. The admin can view entire report of the all the centers.

INTRODUCTION

Nowadays, everyone is moving in a fast world, trying to pace with the technological developments, occurring all around them. In the yore days, we used to store the data in files and the data were written in papers. But, nowadays we have the so-called "Storage Media" to store all the data which we require. There are only very few companies, who still follow the practice of storing data manually in the black and white format, whereas others have changed their medium of storage to computers. In such a world, it is important to make sure the required details are retrieved anytime, anywhere, anyhow, based on the request posted by the user. Though this is the need of the hour, certain systems fail to satisfy the above requirements, making it less efficient, based on its performance. Hence, our proposed system will satisfy all the requirements, to help the user work efficiently and make the best possible out of the system.

This project is based on the requirements specified by Allzone Systems, Coimbatore. This proposed system is designed in such a way that it helps the user to retrieve the data based on the inputs provided. This is similar to that of an offline search engine. Data can be retrieved using primary key. This system works in a similar fashion. But the difference is that, this retrieval includes text files, spreadsheets, presentations, reader, editor, etc. All those data are also retrieved. This is also stored in one main system, from which access is provided to the terminal nodes. the manufacturing approach of using computers to control the entire production process. This integration allows individual processes to exchange information with each other and initiate actions. Although manufacturing can be faster and less error-prone by the integration of computers, the main advantage is the ability to create automated manufacturing processes. Typically CIM relies on closed-loop control processes, based on real-time input from sensors. It is also known as *flexible design and manufacturing.* The management of hardware and software assets has become much more complex since the days when the corporate user had one PC on the corporate LAN running a small number of applications.\

RELATED WORK

Can you meet your management challenge

Today's Project Management Organization (PMO) struggles with time, cost, and resource management challenges—particularly at the aggregate level. Given these daily challenges, it is difficult for IT executives to see which projects and operational activities they should be working on to find out how much is left in their budget, resource capacity levels, and alignment with business needs. HP Project and Portfolio Management (PPM) Center HP PPM Center software helps you overcome these challenges. It provides your PMO with visibility into strategic and operational demand as well as in-flight projects and programs. Financial management capabilities provide real-time visibility into the project lifecycle at the portfolio, program, and project level— giving IT the flexibility and transparency needed for challenging economic conditions.

HP PPM Center: • Offers top-down planning capabilities that are supported with bottoms-up detailed project plans resulting in better business outcomes •Provides IT financial management capabilities to rapidly adapt budgets and resources as business objectives change • Supports Application Lifecycle Management by helping organizations combine detailed project plans with requirements management, quality, and performance testing efforts • Enhances visibility and controls to maintain compliance and reduce costs HP PPM Center components HP Portfolio Management module enables you to govern your portfolio of IT projects, applications, and opportunities in real-time with effective collaborative processes. Complete lifecycle forecasting capabilities give you the information to make effective portfolio decisions—from proposal initiation, justification, and review to project initiation, execution, deployment, and benefits realization. And with the optional Portfolio Optimization feature, the best mix of proposed projects, active projects, and maintained assets can be determined automatically based on user-defined criteria. HP Program Management module enables you to collaboratively manage your programs from concept to completion. It automates processes for managing scope, risk, quality, issues, and schedules. With HP Program Management, you no longer need multiple point tools and paper manuals to manage program initiation and budget processes, approval, scope changes, risk, issue resolution, resources, or status. HP Project Management module helps you meet the challenges of managing projects in large, geographically dispersed enterprise environments.

It integrates project management and process controls to reduce the number of project/schedule overruns, thereby reducing project risks and costs. HP Project and Portfolio Management (PPM) Center standardizes, manages, and captures the execution of project and operational activities. It provides critical information in real-time to help you make the right investment decisions at the right time. HP Project and Portfolio Management Center Deliver consistent business outcomes HP Financial Management module provides a single, real-time view into all financial attributes related to the programs, projects, and overall IT portfolio. Program and project managers gain the flexibility needed to rapidly adjust forecasts as business objectives change. Cash flow analysis capabilities increase the accuracy of IT investment decisions. For global organizations, multi-language and multi-currency is supported within the application. HP Financial Management offers SOP 98-1 support which uses a built-in capitalization method to reduce capitalization errors and uses out-of-the-box portlets to bring needed visibility and control. HP Resource Management module provides comprehensive resource analysis, which includes both strategic and operational activities at any stage in the work lifecycle. This holistic approach enables a complete understanding of where internal or contracted resources are currently committed and allocated. In turn, your managers can quickly respond to changes with a clear understanding of the effects on resource capacity and work prioritization. HP Time Management module helps you focus on value-added activities by streamlining time collection and improving accuracy across the wide range of work performed by IT. This provides the capabilities your IT organization needs to better understand how much time is spent on IT investments versus time spent on operational activities.

This helps improve resource allocation and load balancing along with overall productivity and execution. HP Demand Management module captures all project and non-project requests of IT so you will know what the organization is asking for and have the information to focus your valuable IT resources on top business priorities. Stakeholders have a comprehensive picture of past, present, and future demand so requests can be prioritized, assigned, viewed, and "sliced-and-diced" across multiple dimensions to identify trends. HP Project and Portfolio Management Dashboard provides role-based, exception-oriented visibility into IT trends, status, and deliverables to help you make and execute real-time decisions. It supports information sharing with other applications or corporate portals through enterprise industry standards JSR 168 and WSRP. HP Project and Portfolio Management Foundation is our unique platform that runs HP PPM Center. It includes our advanced workflow engine and configuration capabilities. Additionally, Project and Portfolio Management Foundation incorporates enterprise-class data security features. HP PPM Center Mobility Access is our mobility and collaboration solution embedded in HP PPM Center software and enables email notifications and approval actions directly from the user's email on any device that supports regular email. 2 HP PPM Center CPIC Accelerator enables the lifecycle CPIC process which includes management, submission, and reporting of IT investments through OMB Exhibits 300 and 53. The CPIC lifecycle process is integrated with the System Life Cycle management (SLC)—leading to a direct linkage between the project operational and execution information (for example, net present value, EVM-ANSI 748, lifecycle costs). HP Center Management for Quality Center software helps

your organization manage HP Quality Center software as a shared Center of Excellence (CoE). It provides pre-packaged content and workflows to automate key processes for quality management and enables best-practices for project collaboration as well as project and resource management. Center Management is a key part of the HP holistic Application Lifecycle Management solution providing end-to-end management of your applications. HP Center Management for Performance Center software provides pre-configured templates for performance-testing project management and execution, and a set of digitized processes to consistently manage the work for running a performance testing CoE. It offers consistency, control, and visibility across all performance testing operations. Why HP? HP is uniquely positioned to deliver your project and portfolio management solutions. We offer: Visibility into all demand—Today's IT executive struggles with business alignment, time, cost, and resource management challenges—particularly at the aggregate level. Stepping back to see the "forest through the trees" to identify which activities will meet business requirements is difficult. With HP PPM Center, IT executives gain requisite visibility into strategic and operational demand as well as in-flight projects and programs. Flexible business process automation—HP PPM Center is built on top of a powerful workflow process engine that can rapidly digitize and automate project and portfolio management processes. These capabilities enable HP to provide the PMO with the flexibility and control necessary to align IT services with business goals. Top-down AND bottom-up approach—Unlike approaches that only offer time-reporting systems and project scheduling tools, HP PPM Center offers top-down planning capabilities that are supported with bottoms-up detailed project plans. 3 HP Project and Portfolio Management Center helps you improve key business-to-IT processes.

EXISTING SYSTEM

In Existing system, the client details, the order details, the product, the stock details and payment by the client details are maintained in excel sheet. If any information want to share with the admin, have to sent by the mail only. If any stock details report want to take, it is difficult to take report from excel sheet. And the details of any stock, product etc want to maintain in separate excel sheet for each month. The details are maintained manually.

LIMITATIONS OF EXISTING SYSTEM

The problem of reconfiguration does not exist only in manufacturing domain. Another domain in which the need for reconfiguration is frequent is the computer domain. Since this paper focuses only on the addition of new machines into an existing manufacturing system, only solutions for this type of reconfiguration in the computer domain will be discussed in this section

Some examples of the integration problems in computer domain are; to add a new peripheral to a PC, and to add a new computer into a computer network. In the first case, each computer peripheral is usually different and the way each peripheral can be controlled is normally dissimilar.

Computers and their operating systems (OS) cannot be expected to know how to control every device, both now and in the future. To solve this problem, OS essentially dictate how every computer peripherals should be controlled.The "device driver" is used to translate the generalized command from OS into a specific command used to control a particular device [4]. In summary OS only need to communicate with the device driver. The device driver can be considered as a wrapper that wraps around the actual device.

Although OPC defines general interfaces to simplify the process of establishing communication between machines in a manufacturing system, it does not specify any control method. ISA S88 provides design philosophy can be used to design manufacturing systems. However, ISA S88 fixed hierarchical architecture limits the reconfigurability and the responsiveness of the manufacturing systems.

Based on the wrapper concept and the distributed manufacturing paradigm, an approach for integrating a new machine into an existing conventional hierarchical manufacturing system is proposed. The proposed method comprises of three main steps; convert the existing manufacturing system into a holonic resource, convert the machine into a holonic resource, and system integration.

PROPOSED SYSTEM

In proposed system, the client details, the order details, the product, the stock details and payment by the client details are maintained in Database.

This proposed system is a web application, so the admin can view the entire details of the product, stock, client, and order in the web site of the entire branch. Can take report of any information in hard copy for day wise, weekly wise and monthly wise also.

ADVANTAGES OF PROPOSED SYSTEM

Although the disadvantages of flexible manufacturing systems can make some companies wary of them, it's important to understand that their benefits will outweigh their drawbacks in the long run.For example, flexible manufacturing systems may be expensive to implement and add to your company at first. However, they'll help you save money in the future. They reduce the costs of operation because their ability to adapt to changes helps to prevent defective products as well as wasted time and resources. On top of that, they require fewer workers to operate them compared to other manufacturing systems, so companies can save on labor costs.

But perhaps the biggest benefit of flexible manufacturing systems is that they help companies become more efficient. They work to keep everything running smoothly in most situations.
If something within the process changes, they can easily adapt and keep production flowing to reduce delays and bottlenecks. This helps to create faster production times and, as a result, increased customer service and satisfaction.Flexible manufacturing systems may have a few disadvantages but not enough to negate their benefits. Though costly at first, flexible manufacturing systems will help businesses to create better products, become more efficient, and increase revenue as time goes on.

CONCLUSION

In manufacturing, system capacity is always limited to the lowest output of the operationsmachines across the assembly line.Since all of Beck's steering gears must pass through eachphase of the process, he remains limited to the grinding operations capacity until he buys moregrinders, better trains his employees, or finds ways to improve the grinding process byeliminating steps that are wasteful or redundant.Before Beck increases capacity either byexpanding his plant size or rejuvenating his process, he must ensure the demand exists for hisproducts.Creating an overstock of steering gears would cause him to lose money in storage, ashe would have to spend to either rent storage space or expand his own warehouse to keep all ofthese units ready for shipment.

In this chapter we described the production system as a method of modelling human problem solving. When trying to solve everyday problems, people may respond to an external condition with appropirate actions; they also form plans to guide their behaviour. One way to uncover a person's problem-solving strategies is to collect a protocol: the problem solver's own account of thoughts and intentions, spoken while solving the problem. From these `think aloud' protocols, the researcher tries to construct a problem space consisting of the person's states of knowledge and the operators needed to move from one state to another.

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