

Cloud services with cataloging

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ABSTRACT

In today's fast paced world, information and communication technologies are dramatically transforming our society. Now a days, cloud computing is fast growing technology in the computer as well as information technology field. It is a recent innovation that is helping the computing industry in distributed computing. Cloud computing is a variety of different types of computing concepts that involve a large number of computers connected through a real-time communication network. The term cloud computing implies access to remote computing services offered by third parties via a TCP/ IP connection to the public internet. Cloud computing allows the organizations to consolidate several hardware resources into one physical device. Cataloging is most important in cloud computing because of anyone can access limited data as per requirements. Cloud provides so many services such as uploading and downloading data, sharing of data in group, group chat, different software etc. This concept is similar to the billing of the electricity, gas, internet services etc. as per client need. This paper is also, more commonly used to describe the network-based services which appear to provide by real server, which in fact are served up by virtual machine, simulated by software running on one or more real machines with cataloging services.

Keywords - Cataloging, Cloud computing

I. INTRODUCTION

The objective of this paper is to focus on services provided by cloud providers which are given based on cataloging. There is no need to install any software on the client machine (only operating system is needed. Example: Ubuntu). Whenever client is creating an account with cloud provider they can access the services of the cloud. In that case clients have to pay the charges according to the applications used. There are big advantages of this technology that save the installation memory of the any software on client machine as well as save the installation money of software (because cost of the license copy of any software is too high). So it is essential that client can access the services of the cloud. This technology is totally based on the internet. Cloud provides so many services such as uploading and downloading data, sharing of data in group, group chat, different software etc. this concept is similar to the billing of the electricity, gas, internet services etc

1.1 What Is Cloud?

In this paper we, are going to discuss about cloud computing, where application files are hosted on a "cloud" consisting of thousands of computers and servers, all linked together and accessible via the

internet. With cloud computing, everything you do is now web based instead of being desktop based. You can access all your programs and documents from any computers that are connected to the internet.^[1]

How will cloud computing change the way you work? For one thing, you're no longer tied to a single computer. You can take your work anywhere because it's always accessible via the web. In addition, cloud computing facilitates group collaboration; all group members can access the same programs and documents from where they happen to be located.^[1]

1.2 Cloud Computing Services with Cataloging

A catalog is an exhaustive list of IT services that a cloud provider provides or offers to its customers. Cataloging is most important in cloud computing because of anyone can access limited data as per charges. There are different algorithm are used to cataloging such as TIMESHEET, ABC, with the help of this algorithm cataloging is done in cloud computing.

II. CURRENT ALGORITHM

2.1 TIMESHEET

This algorithm is used to record time spend by the client on the server. One of the major uses of

timesheets in a project management environment is comparing planned costs versus actual costs, as well as measuring employee performance, and identifying problematic tasks. This knowledge can drive corporate strategy as users stop performing or reassign unprofitable work.^[3]

2.1.1 Advantages:

- 2.1.1.1 Time tracking can lower costs in 3 ways: by making payroll processing more efficient, by making costs visible so you can lower them, and by automating billing & invoicing.
- 2.1.1.2 Time tracking can increase revenue through automating billing, which tends to make it easier for a company to get correct invoices out for all hours worked by consulting staff. This speeds up payment and eliminates the hassles of 'dropping' bills.
- 2.1.1.3 By lowering costs in 3 ways, and increasing revenue in one way, timesheet management technologies that are web-based can improve the health of companies.
- 2.1.1.4 In the project management world, timesheet can also be used to build a body of knowledge about how much effort tasks take to develop. For example if developing a training plan has historically taken a month, then it can be assumed that creating a new one will take a month. Also most timesheet software has the ability to track resource costs and project expenses to allow for better future budgeting.

2.1.2 Disadvantages:

- 2.1.2.1 Prone to human error.
- 2.1.2.2 Repetitive.
- 2.1.2.3 Stressful to employees when used inflexibly.
- 2.1.2.4 Rounding errors (12:27:34 is not the same as 12:30) Although Federal law in the USA requires that if employers round up when you clock in, they must round up when you clock out. So in this case it is not a disadvantage to the employee's pay calculation. It is only a disadvantage for accuracy.

2.2 Activity based costing

The ABC Method (ABC) is an alternative to the traditional way of accounting. Traditionally it is believed that high volume customers are profitable customers, a loyal customer is also a profitable one, and profits will follow a happy customer. Studies on customer profitability have unveiled that the above is not necessarily true. ABC is a costing model that identifies the cost pools, or activity centers, in an organization and assigns costs to products and services (cost drivers) based on the number of events or transactions involved in the process of

providing a product or service. As a result, Activity Based Costing can support managers to see how to maximize shareholder value and improve corporate performance.^[3]

2.2.1 Advantages:

- 2.2.1.1 Identifying the most and least profitable Customers, products and channels.
- 2.2.1.2 Determine the true contributors.
- 2.2.1.3 Track costs of activities and work processes.

2.2.2 Disadvantages:

- 2.2.2.1 Implementation of Activity Based Costing is not easy

III. PURPOSED WORK

The main objective of this paper is to provide services of compcloud (compcLOUD is name given to a cloud) with maintaining catalogue of applications used by user. The registered user will get advantages of compcloud so that they can customize their main screen as per their use. Client can also ask for a specific software/application as per their need. They have to pay the charges depended on the software and time for their use. In our project we are going to overcome the drawbacks of timesheet algorithm and Activity Based Costing. Using compcloud user can get default software as calculator, notepad, calendar, etc. for any other software user has to inform the provider by using mail service.

The main disadvantage of timesheets is that we frequently get rounding errors (12:27:34 is not the same as 12:30) for that we are going to use "Round towards nearest" technique. In that, as name suggest algorithm rounds the digit towards nearest digit. For example 5.1, 5.2, 5.3, 5.4 all are consider as 5 and above 5.5 consider as 6.

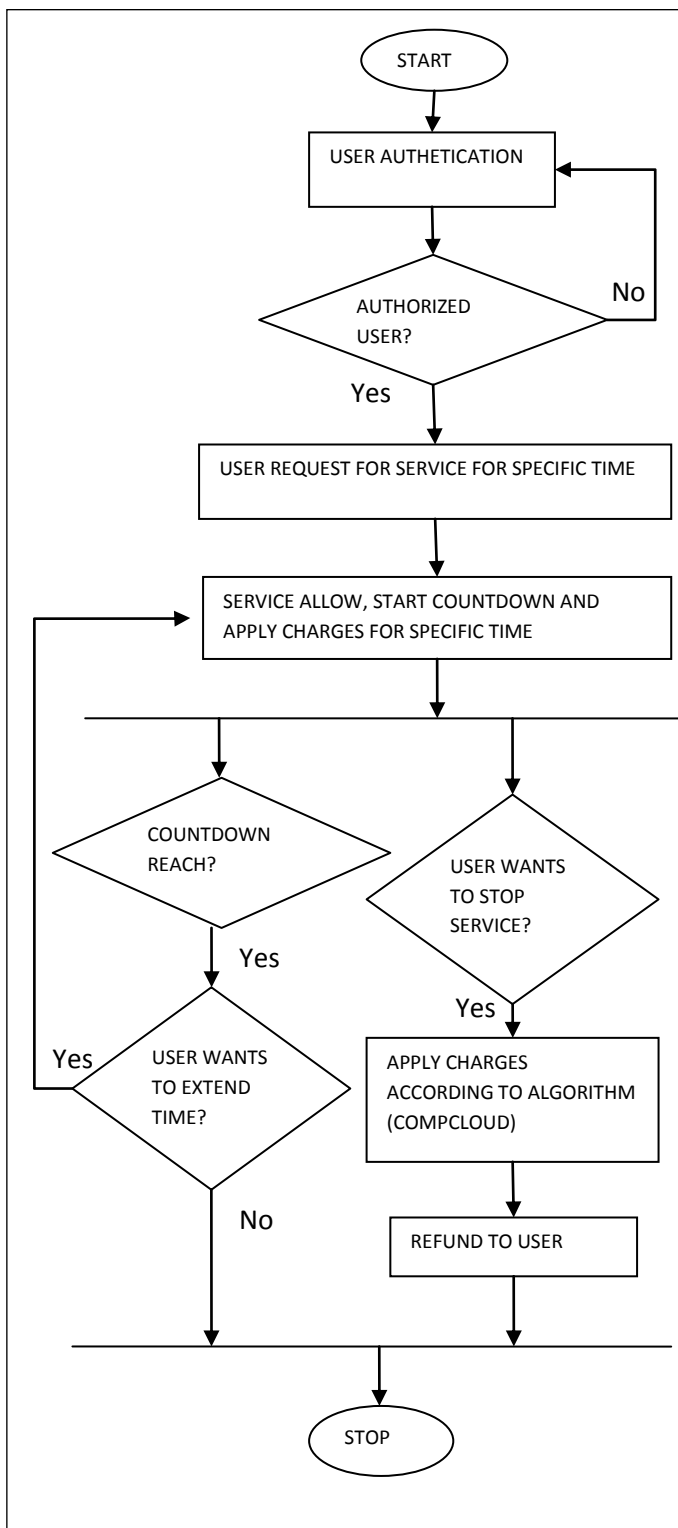


Figure 1 CompcLOUD algorithm

| Comparison between algorithm | | | |
|------------------------------|---|---|---|
| | Timesheet algorithm | Activity Based Costing algorithm | Rounding towards nearest(COM P CLOUD) |
| Advantages | Time tracking can lower costs. | Identifying the most and least profitable Customers, products and channels. | Time tracking can lower cost |
| | Time tracking can increase revenue | Determine the true contributors and detractors From financial performance. | Time tracking can increase revenue |
| | The major uses of timesheets is in project management environment | Track costs of activities and work processes. | Reduced rounding issue. |
| | | Achieve better Positioning of Products. | Identifying the most and least profitable Customers, products and channels. |
| Disadvantages | Rounding errors | Implementation of Activity Based Costing is not easy | |
| | Prone to human error | | |

TABLE 1 Comparison between algorithms

IV. CONCLUSION

In this paper, current and past trends are analyzed and compared. In particular, we have presented various cloud efforts in practice from the market oriented perspective to reveal its emerging potential for the creation of third-party services to enable the successful adoption of cloud computing.

V. FUTURE WORK

Now a days, cloud computing is fast growing technology because cloud provides huge services. Cataloging is most important in the cloud services as business need. In our project the main objective is use of cataloging in the cloud services. So as per use of services user have to pay the charges of service. The is no loss of user as well service providers. So, with our purposed algorithm (compcLOUD algorithm which is based on rounding towards nearest digit) cataloging technique will improve in the cloud services.

REFERENCES

- [1] Michael Miller, “*CLOUD COMPUTING*”
Web based application that changes the way you work and collaborate online, 4th edition, PEARSON publication, 2008.
- [2] Roger Jennings, “*Cloud Computing with the Windows Azure Platform*”, Wiley Publication, 2011.
- [3] “*The need for service catalog design in cloud services development*” by cisco publication 2011.
- [4] David E.Y. SARNA, “*Implementing and Developing Cloud Computing Applications*”, CRC Press, 2010.
- [5] W. T. Tsai and Yinong Chen, “*Introduction to Service Oriented Computing*”, 2006.
- [6] *ACCY121 Final Exam study Guide*.
- [7] Vikram Rana, “*The future of cloud computing and its disruptive affect on enterprises and markets*”, 2008.