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Cloud Services for Employee Data Management

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Abstract: **- Cloud computing is a new form Internet based computing that provides shared computer processing resources and data to computers and other devices on demand. With the database as service, all the data of employees can be stored in the cloud database. Cloud computing offers a new way of services and has become a popular service provider.Storing user data at cloud data centre reduces storage burden of user devices and makes the data convenient for use. Cloud computing is the delivery of computing services—servers, storage, databases, networking, software, analytics and more—over the Internet. Most cloud computing services fall into three broad categories: infrastructure as a service (IaaS), platform as a service (PaaS) and software as a service (Saas). These are sometimes called the cloud computing stack, because they build on top of one another. Knowing what they are and how they are different makes it easier to accomplish your business goals. Cloud computing, often referred to as simply "the cloud," is the delivery of on-demand computing resources—everything from applications to data centers—over the internet on a pay-for-use basis. Cloud-based applications—or software as a service—run on distant computers "in the cloud" that are owned and operated by others and that connect to users' computers via the internet and, usually, a web browser. Platform as a service provides a cloud-based environment with everything required to support the complete lifecycle of building and delivering web-based (cloud) applications—without the cost and complexity of buying and managing the underlying hardware, software, provisioning, and hosting.**

***Index Terms*— Cloud computing, Cloud Provider, Data Management, Employee data management.**

I. INTRODUCTION

Cloud computing is the term related to the network. Cloud computing refers to hardware and software services are provides over the Internet. Cloud refers to the model, where user can have access to the shared pool of resources such as database servers, applications or storage over the network. This reduces the overall cost to establish an organization and maintenance burden of the different resources; these resources are managed by the service providers. The organization that wants to access these resources just have to pay some little amount to the service providers. This amount is very lesser as compared to purchasing of each resource. People, today, are shifting from traditional computing towards cloud as it provides higher reliability, fault tolerance, broad network access, on demand usage etc . Cloud computing is often used with the term Fog Computing. Fog computing refers to the facility of processing and storing data in the Local Area Networks in conjunction with the cloud computing. To understand about the project we will discuss the current scenario of handling the employee database by taking example of Banking system. Now a days, data of the employees are stored in the Database of the company i.e. in physical stacks present in the vicinity of the organization. Due to this approach of data storing and handling of different data and services, only the machines connected to server through cabling only can access the data. In such type of systems, there may be data loss or data manipulation by the administrator or any employee accessing it. This can lead to unreliability of this system. As the staff in the office vicinity also cannot access the data only the administration department have access to this systems. Moreover, the physical data stacks consume too much space which cannot be used for other purpose and it also requires constant maintenance and repairing which leads to more capital expenditure.

II. PROPOSED SYSTEM

To overcome the common problem faced by various business organizations, we have services introduced by the cloud computing in various aspects. So we have introduced this in our project to enhance the current system. Cloud computing is a new form Internet based computing that provides shared computer processing resources and data to computers and other devices on demand. With the database as service, all the data of employees can be stored in the cloud database. By doing so, user and admin can access the information from anywhere one wants to as because of the wireless technology no particular machine is connected. In cloud computing, the user can access not only database service, but can also access various other services such as software deployment, accessing various files from the database etc.

III. LITERATURE SURVEY

Cloud computing has become the most advanced and efficient technology for storing of data. It has changed the

overall IT environment for various sectors. It has also helped in giving the R&D sector a huge boot in this era[1]. Cloud computing offers a new way of services by rearranging various resources (e.g., storage, computing and services) and providing them to users based on their demands. Cloud computing provides a big resource pool by linking various network resources together. It has desirable properties, such as scalability, elasticity, fault-tolerance, and pay-per-use. Therefore, it becomes a promising service platform, rearranging the structure of Information Technologies. In many situations, different cloud service providers(CSPs) are requested to collaborate together in order to provide an expected service to a user. With the rapid growth of mobile communications and the wide usage of mobile devices, people nowadays perform various social activities with their mobile devices, e.g., calling, chatting, sending short messages, and conducting instant social activities via various wireless network connections.[10] Social trust relationships can be established and assessed in a digital world. Trust and reputation play a decisive role in cyber security[9].

IV. APPLICATIONS

There are different applications for such a system such as in banking sectors, startup companies, business oriented companies etc. These project model can be implemented in the Banking sector wherein the database of all the employees and staff working in the bank, can be stored in the cloud database and accessed from anywhere. This helps in retrieving the entire and correct information about all the employees and is useful in knowing evaluation and strength of various employees. It also makes the employee more aware of the ongoing activities and the progress of jobs assigned to them. Providing all the right and necessary information such as minutes of recent meeting, getting updates on the ongoing processes, further notices, providing various types of forms for particular task or action etc

V. SCOPE

Cloud Computing is a fast emerging business standard. Enterprises find it beneficial in several ways. Cloud Computing simplifies accessibility, provides virtual storage space, addresses backup issues, it provides security against unauthorized access and loss of data. Key advantage is that users can pay only for the resources they have used on 'the cloud' and do away with the major investments for data storage, software licenses, servers and hardware.According to an IBM statistic about 85% of new applications are being developed around Cloud Computing. The industry is expected to grow tremendously, driven mainly by the services that allow users to backup their files including photos and music, while ensuring easy availability of files in cases of hard drive crash.

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