Secure Intra-Communication Information Authority in Organization

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---ABSTRACT---
Group data sharing in cloud environments has become a hot topic in recent decades. Group data sharing in cloud is a technique that allows users to conveniently access dataoverthe cloud. An organization is an entity comprising multiple people, such as an institution or an association, that has a particular purpose andgrouping related functions into manageable units to achieve the objectives of the enterprise in the most efficient and effective manner. Daily report which is stored in cloud enables the team manager to have an overview how the team's project is progressing in terms of each team member's individual tasks without having to talk to each one on a daily basis. In Proposed work, whatever the employee work as a task is automatically create as a PDF file and it will not be rewrite by anyone and daily updating has been updated to the particular file. For accessing the pdf file by team leader, the captcha has been generated to mostly avoid the automatically harvesting the details. If HR Manager wants to see the daily update of the Team Leader, then the QR code has been generated and scanned by them to get access to the file.

Keywords **- Group data sharing, daily report, PDF, QR code.**
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I. INTRODUCTION

Cloud computing and cloud storage have become hot topics in recent decades. Both are changing the way we live and greatly improving production efficiency in some areas.Cloud computing describes a type of outsourcing of computer services, similar to the way in which electricity supply is outsourced. Users can simply use it. They do not need to worry where the electricity is from, how it is made, or transported. Every month, they pay for what they consumed. The idea behind cloud computing is similar: The user can simply use storage, computing power, or specially crafted development environments, without having to worry how these work internally. Cloud computing is usually Internet-based computing. Cloud is a metaphor for the Internet based on how the internet is described in computer network diagrams; which means it is an abstraction hiding thecomplex infrastructure of the internet.These services are broadly divided into threecategories: Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS)and Software-as-a-Service (SaaS).At present, due to limited storage resources and the requirement for convenient access, we prefer to store all types of data in cloud servers, which is also a good option for companies and organizations to avoid the overhead of deploying and maintaining equipment when data are stored locally. The cloud server provides an open and convenient storage platform for individuals and organizations, but it also introduces security problems. For instance, a cloud system may be subjected to attacks from both malicious users and cloud providers. In these scenarios, it is important to ensure the security of the stored data in the cloud. In several schemes were proposed to preserve the privacy of the outsourced data. The above schemes only considered security problems of a single data owner. However, in some applications, multiple data owners would like to securely share their data in a group manner.
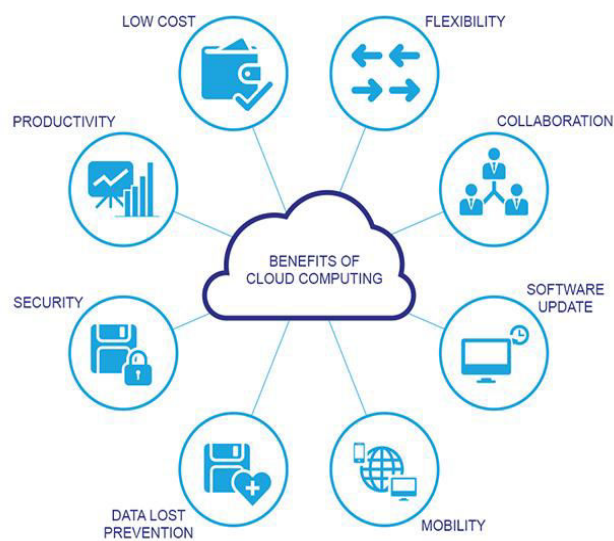

Fig 1. Benefits of cloud computing

II. EXISTING SYSTEM

In existing system, the employee has to update their daily work and also if they have to send any information means they have to go and inform to their particular HR manager

or through mail and even the Team Leader have to do the same thing for getting any information or send any information or to update any Employee details to the HR manager. Once create the group they add a file and send a key to access the file to a particular person but this should visible to everyone and it may be accessed by everyone in the group.

2.1 Disadvantages
- It is more time consuming.
- The files cannot be protection from unwanted internet bots from accessing it.

III. PROPOSED SYSTEM

In Proposed work, whatever the representative work as an undertaking is consequently make as a PDF record and it won't be rework by anybody and day by day refreshing has been refreshed to the specific document. For getting to the pdf record by group team leader, the captcha has been created to generally keep away from the naturally reaping the subtleties. In the event that HR Manager needs to see the everyday refresh of the Team Leader, at that point the QR code has been generated and examined by them to gain admittance to the document. The attendance has been recorded by the user login. So,every time user gets login to their system the particular attendance has been taken.

3.1 Advantages

- QR code has been generated and scanned by them to get access to the file.
- The captcha has been created to for the most part maintain a strategic distance from the consequently collecting the subtleties.
- As the task is automatically converted into pdf files, it is less time consuming.
- The files can be protection from unwanted internet bots from accessing it.

IV. MODULE DESCRIPTION

4.1 Authority Verification
Every time the authentication of the team leader has to be verified by the HR manager in the organization. Whenever employee or team leader wants to login or join, the employee have to specify the team leader identity and employee identity during registration, then HR manager will verify the team leader details similarly team leader verifies the employee details. If the records are found, the employee and team leader will be accepted to authenticate.

4.2 Daily Updation
In any organization, the daily updating needs to be done by every employee. The daily report update is typically a document prepared by employees to submit to their team leader. A daily report updates a team leader or manager about an ongoing project. It should provide an overview that describes each member's tasks and progress. The employee task or work is automatically created as a PDF file and it will not be rewritten by anyone and daily updating has been updated to the particular file.

4.3 Captcha and QR Code Generation

Captcha is a way to differentiate between an automated computer program and a human. It has become the most widely used standard security technology to prevent automated computer login. Captcha has been generated for the pdf file, every time the team leader wants to access the file, they need to give the captcha. If HR Manager wants to see the daily update of the Team Leader, then the QR code has been generated and scanned by them to get access to the file.

4.3 Information Sharing
If in case of any emergency issues such as any secret information, the employee data's will automatically converted into PDF. The employee can send the secret information to the particular team leader, manager and employee within team. The manager and team leader can also send the information to any employee within organization.

4.3 Secure Pdf Access
The PDF file can be accessed by anyone within organization, but to open or read the pdf file, the password authentication will be done. The employee who get the pdf file have to put their login credentials to access it. If someone wants to get the file who is not the particular person whom I want to send, the pdf file could not be accessed by them because of the password authentication.

V. SOFTWARE REQUIREMENT

- Operating system : Windows 10,8,7
- Technology Used : Asp.net C#
- IDE : Microsoft Visual Studio 2012
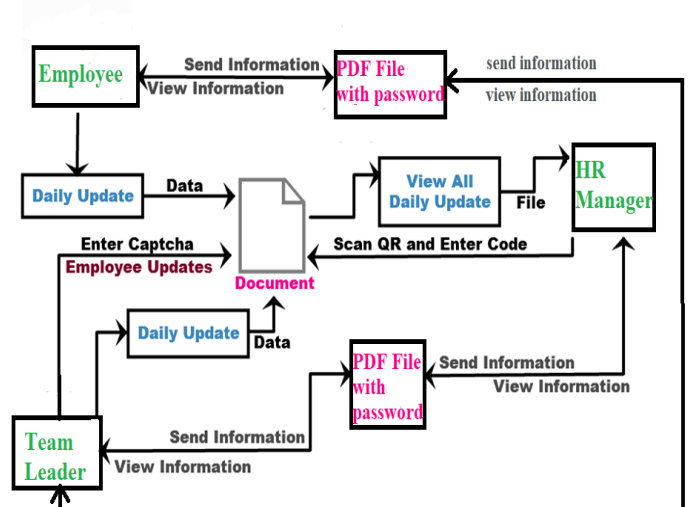- Database : Microsoft SqlServer 2012

VI. SYSTEM ARCHITECTURE

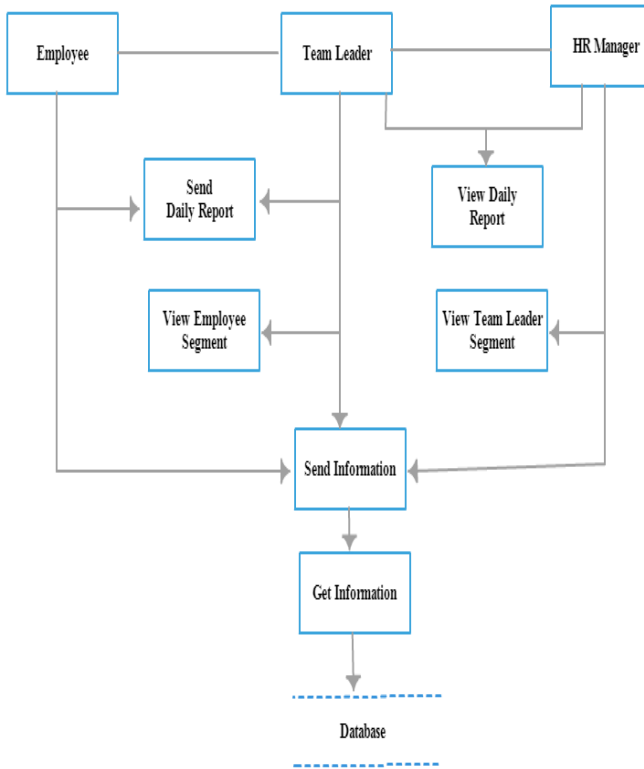Fig 2.Illustration of secure intra-communication in an organization
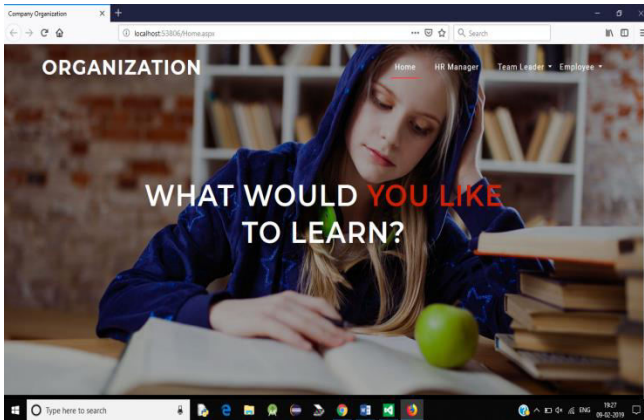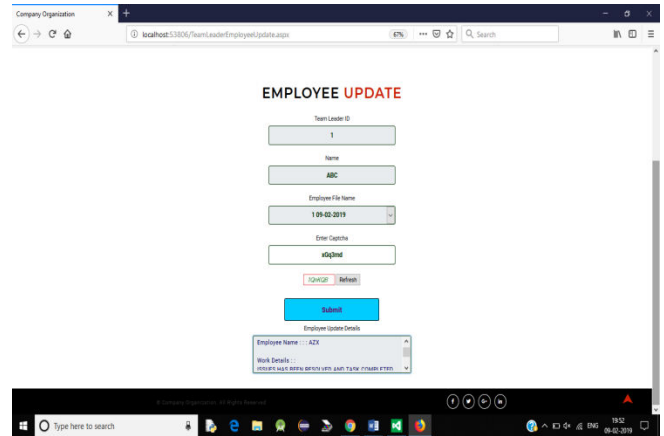
VII.   DATA FLOW DIAGRAM
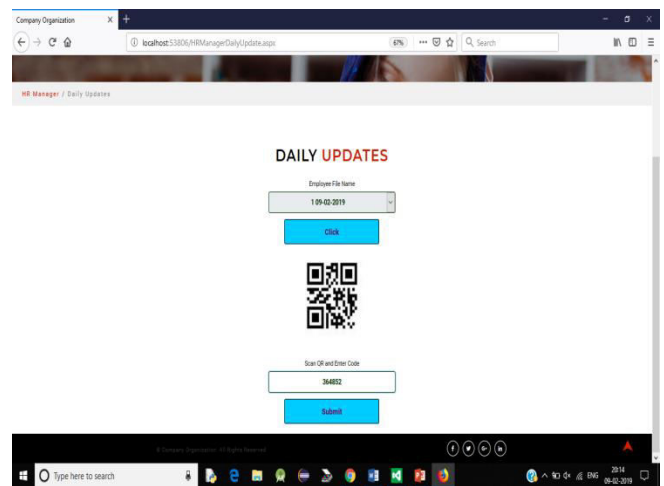

Fig 3. Overall DFD of secure communication in organization

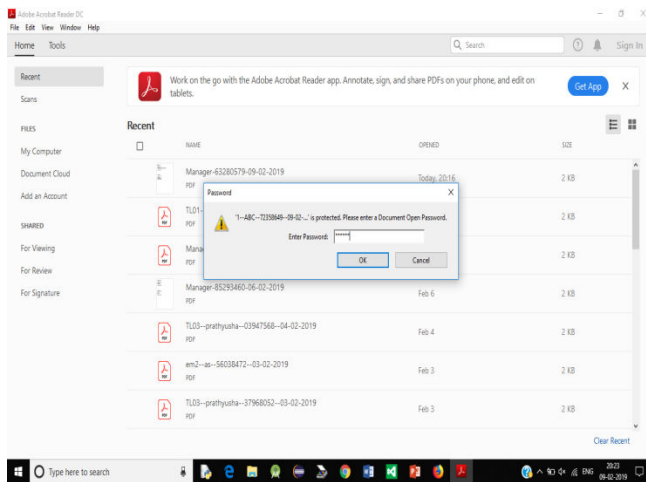## VIII.   OUTPUT HOME PAGE

EMPLOYEE UPDATE AFTER ENTERING CAPTCHA

TEAMLEADER / EMPLOYEE UPDATE

PDF FILE

SECURE PDF ACCESS

IX. CONCLUSION

In this generation where everything needs to be very faster and secured, an cutting edge improvement in time and innovation requires quicker data broadcasting. Joined together, customized, astute data applications are increasingly critical in business and private lives. In every organization where employee allocated with task is commenced when task is automatically transformed into the file which is even secured access by the team leader. In which we also using the captcha to prevent from the automatic access from the bots and it is even secured accessed by the team leader. At last when task is completed, the HR manager is supposed to done the inspection or verification, the QR code is generated for secure access.

X. FUTURE ENHANCEMENT

In Local Area Network, the proposed hybrid encryption mechanism may be customized for transferring the sensitive data from work station to host based applications. In web-based applications, the proposed mechanism enables the transfer of sensitive data from user to user, from user to server and from server to server which are located outside of the organization. In a cloud environment,more number of people are accessing the web server locally or globally to share the sensitive data. The proposed hybrid encryption technique is very helpful to enhance the security for web-based transactions in future.

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