

A Survey on Touch Based Data Transfer Using Cloud

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Abstract:- Currently, computer technology is completely based on touch screen technology. Any digital device users want to use touch screen technology for easier and faster way to accomplish their work. Transfer of data and keeping it secure is common issue in digital world, so to achieve different and great method for transferring of data, there is need to focus on simpler way to transfer any type of files between two digital devices. Need to provide users functionality to sharing of file over wireless network by using simple touch gesture as well as to provide secure and effective way of data sharing over cloud. In this paper basic techniques which are utilized for data sharing have been studied well and main objective is to provide easy, secure as well as attractive way for sharing of data between digital devices over cloud. This paper focuses on methodologies and primitives which are being used till now for data transfer system.

Keywords:- JavaScript, HTML5, Bootstrap, Android, Windows, Cloud Computing, Information Security, Drop box, MCC.

I. INTRODUCTION

In Information technology (IT) industry, there is fast development and growth about sharing of data over distributed systems. Methods for sharing data between devices have been modernized. Now-a-days so many ways have followed by users to transfer the data between any two digital devices and sharing of data have become need of an hour. So considerations have been taken to develop and deploy such a system which will provide easy and simpler way to transfer the data between digital devices. Main objective is to develop an application which can be used for transferring the data between at least two digital devices by providing effective way to sharing of data using simple touch gesture over cloud. Data sharing and transfer of data can be easily done by the user. Shared data can be store at cloud. Cloud Computing [1] approach is used mostly by various systems to provide on demand services as well as to achieve availability of shared data and resources. Data can be shared among multiple devices through cloud and that data can be retrieve from anywhere and anytime.

HTML5 is the advanced version HTML(Hyper Text Markup Language) which is having more attributes, elements as well as behaviors with it. By using HTML5 client communicates with the server with attractive ways, higher speed and better utilization of hardware [5]. CSS(Cascading Style Sheets) provides various style sheets which can be manage the layout and overall designing of pages.CSS attributes, tags and its different properties are simple to implement and it gives better style and look to the pages by applying its properties [6].CSS can be used to provide greater Graphical User Interface(GUI). JavaScript is

programming language which is object-oriented, interpreted and portable language. It is designed for distributed environment of the Internet because it handles TCP/IP protocols [3]. JavaScript also supports Remote Method Invocation (RMI) This feature enables a program to invoke methods across a network. JavaScript has an Application Program Interface (API) which deals with text, arrays, regular expressions [4]. Bootstrap is framework of HTML, CSS and JavaScript and it can be used for developing responsive web pages which will get automatically adjust with respective to environment and produce interactive user interface. Bootstrap can be deal with the devices with all shapes and project of all sizes. One can scales website or application with single code base, from phones to tablets to desktops with CSS media queries [7].

So, with the use of all this technologies system can provide better user interface and it will be multi-platform which can be run on different operating systems like android, windows etc. System will be plat form independent through that any number of users having different devices which supports different operating systems can use the system. User can easily get enter in the application through authentication methods and various functionalities for data transfer can be used by users. Data transfer can be easily done by simple touch gesture from first device to second device with the help of cloud [8].Data can be shared among two or more devices over cloud and data can be easily store and maintain with the help of cloud storage as show in figure 1 [9].

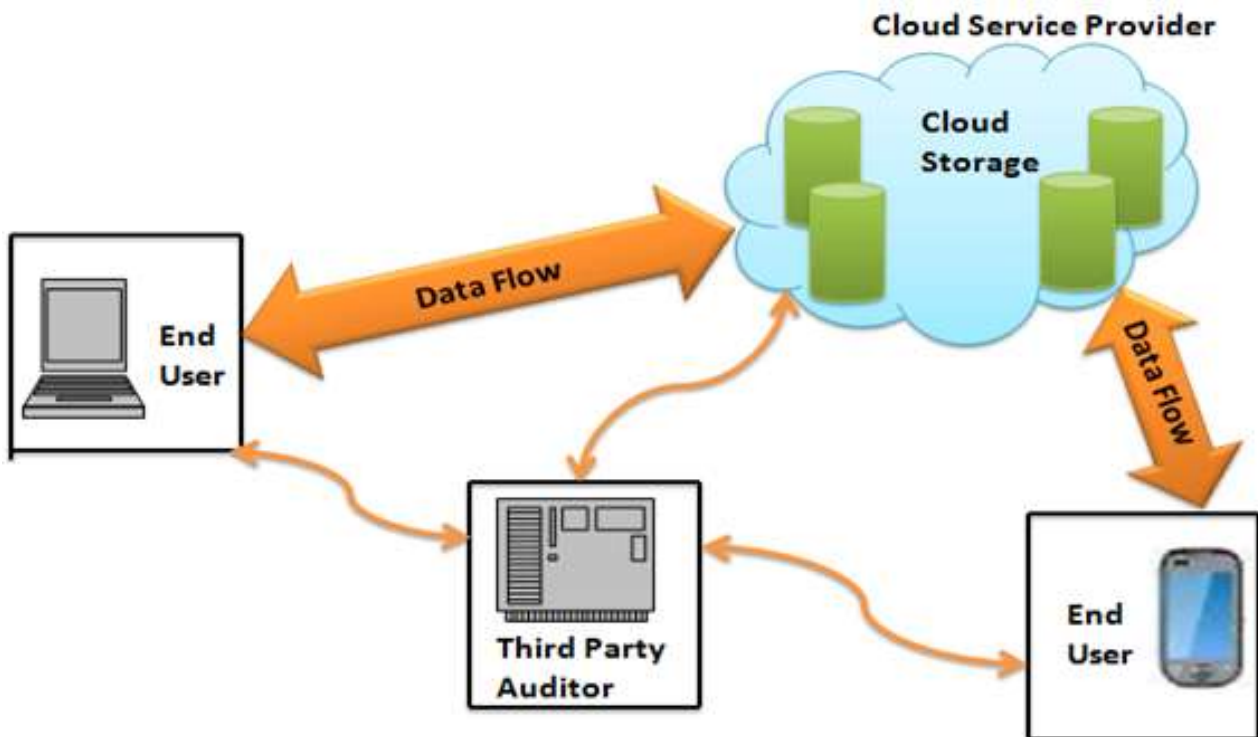


Figure 1. Data sharing Between two devices over cloud

II. RELATED WORK

Data sharing is essential thing in today's digital world, so various methods are being developed for this purpose. Data can be easily transferred within two entities and different methods have been used till now to transfer the data. Transfer and sharing are the objective of this system which overcomes the problems occurring in following data transfer techniques which have been used till now for data transfer.

1. **Usage of Physical Devices :** Physical devices like hard drive, pen drive, USB(Universal Serial Bus) cable, memory cards are used to transfer the data from one device to another device.
2. **Use of Bluetooth :** Data sharing can be done by using Bluetooth technology. It allows to transfer of data within particular range of the devices. Transfer of data can be done only when both the devices are in specific range of Bluetooth network.
3. **Sharing Over LAN :** Data sharing and data transfer can take place by using Local Area Network(LAN). Devices which are connected to one another within local area network can transfer the data and share resources.
4. **Use of mobile applications :** Various mobile applications like xender, ShareIt etc. are used to transfer the files between two devices and share the data among them.

5. **Use of cloud Data Storage :** Data can be stored on cloud and can be retrieved whenever it needs. Different applications like one drive can be used to data storage and retrieval.
6. **Flick Gesture devices :** By using devices which uses flick gesture to transfer the files one can share the data. Flick gesture devices allow users to transfer the files between devices by just flicking motions [10].

Growth in transferring as well as sharing the data is increasing tremendously. Various applications are used data transfer but they are having demerits also. So this system tries to overcome that problems and provides ease of data transfer using touch gesture and maintain the stored data by dealing with greater user interface.

III. MOBILE CLOUD COMPUTING

Mobile Cloud Computing (MCC) is nothing but type of computing which can be used to improve performance of mobile devices [1]. It is defined as expansion of cloud computing which is completely depending on cloud computing [2]. Mobile computing concepts are used to implement this system to enhance the performance of data transfer between devices. System will be use Dropbox [12] as cloud storage so that data can be store and manage over cloud. Primary requirement of system is any two digital devices for transferring data between each other. Two devices which are connected through network (Internet)

from which first device can send any type of file by using just single touch wherein second device can be retrieve that file by using touch gesture. Cloud storage is used by system where data can be store and manage by users. Application

Service Provider (ASP) provides services that can be used to develop and run application which can fulfill project requirements.

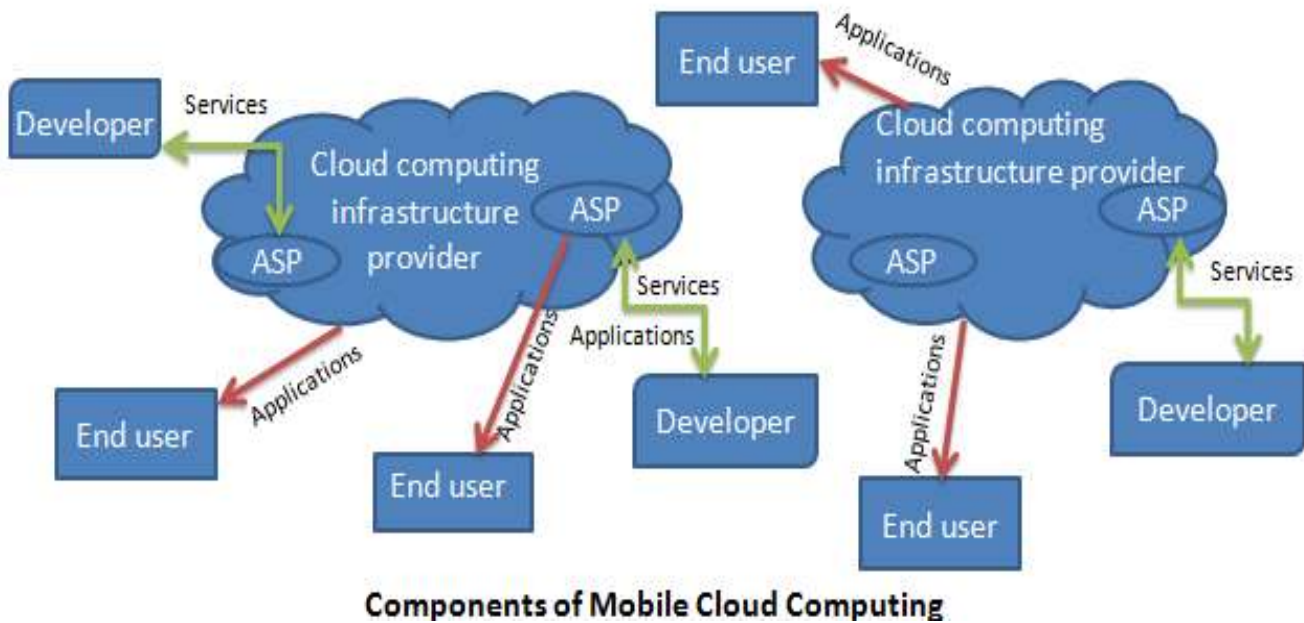


Figure 2. Mobile Cloud Computing Components

Figure 2 is showing mobile cloud computing view in which end users uses an application program hosted to the cloud an application server provider provides services to the users so that user can use those services to accomplish their needs.

IV. LITERATURE SURVEY

In this paper various methods for transferring the data between two devices have been studied and correlation between system which we are developing is being analyzed. If user want to transfer the data from one device to another device then user generally uses methods like bluetooth sharing, email etc. The files which are going to be shared among the devices are stored on local storage. Instead of storing on local storage data can also be stored at cloud which can help to protect the data. Data can also be shared by simple flick gestures between the devices [10]. But with this type of methods devices which are going to share the data must have to exist within specific range. Distance between those devices should not be more. So it there is problem for sharing the data between the devices which are at long distance with between them. Touch based data transfer can be done with the use of simple touch gesture by which files can be shared easily with single touch and users can get effective way for sharing the files over different devices [8]. The system which is transferring the data should

be cross platform. It should support all operating systems so that more number of users can take benefit of it easily. The data which is stored over cloud must be secure on cloud [11]. So secure methods can be used to achieve security of data like authentication methods which can be face recognition, strong password etc. Different security issues for sharing the data over cloud have been well analyzed in this paper.

V. CONCLUSION AND FUTURE WORK

In this paper we have discussed and overlook for "Touch Based Data Using Cloud". The technologies which will implemented for developing the project like CSS, HTML5, JavaScript, Bootstrap, Cloud Computing methods have get overlooked and focused on building an efficient application with the use of this techniques which will make data transfer easily and in attractive way. Data will get stored over cloud and transfer and retrieval of data can be done anytime anywhere. This System can be used for transferring the data between digital devices effectively. It will achieve the way of transferring and sharing the data which differs from methods used till now. This system can be applied in several area where data storage and retrieval is necessary.

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