Future Internet

Dr. Rajeev Kumar[1],Vanshika Bhatnagar[2], Akshay Kumar Siddhu[3]

College of Computing Sciences and Information Technology,
Teerthanker Mahaveer University,
Delhi Road Moradabad, India

[1]rajeev.computers@tmu.ac.in

[2]vanshikabhatnagartmu@gmail.com

[3]akshaykumarsiddhu@gmail.com

Abstract— **In this review paper, we are going to see what will be the position of Internet after 15 to 20 years or what will be the future of the Internet. As we know that, Internet has become very popular since 1999(approx.) as it provides a platform whether it is a platform for education, for entertainment or for business. Predicting future of internet can be risky but, on the basis of past information about .internet we can predict the future of internet. The term "Internet Of Things" has been already connected to many devices like refrigerators, alarm clocks and many home appliances and soon (may be within 10 years) it will be connected to vehicles, paper currency and wallets. Before few years we were just using 2G or 3G speed of internet but now speed of internet has been increased to 4G and 5G and after a period of time or in future a rapid increase will be seen in the speed of internet.**

Keywords— **Internet of Things, Future Internet**

I. INTRODUCTION

As we know that, a rapid change in technology is taking place day by day. These changes have two aspects such as positive impact on the users and negative impact on the users. Now we will discuss about,

What is Internet and what is the use of Internet?

Internet is a planetary connection of networks between billions of computers and it provides the service to access the information. Internet consists of many networks which are related to academic, government; business, etc. and they are collectively used to carry out different types of information. One of the huge services provided by the internet is the WWW (World Wide Web) and in general term Internet is known as "net". World Wide Web service is used by millions of people. Internet brings out lots of changes in our daily life, how we live or how we work or how we consume.

There are various uses of internet such as internet is used for sending E-Mail(Electronic Mail),Online Chatting, sending files from one place to another in soft copies, for entertainment(playing games, listening songs, watching movies) and many more. As we have discussed above, that WWW is the most commonly used service which contains websites and it includes web pages and these web pages can be accessed or read by any person for getting appropriate information(if that particular page is not blocked or it is not having any password). Websites also contains blogs and wikis (content which is also included in Wikipedia). WWW, in short, is also known as "Web". The most used service on the internet is the World Wide Web or Web. For accessing the facility or service of internet from ISP (Internet Service Providers), money is paid by users (people).

II. IMPACT OF INTERNET

In future, many more comforts are going to be provided to citizens which will have direct connection with Internet. Let's take an example of online food ordering, before ordering of food was only possible through audio calls done by the customers but now food ordering is done through a web page or app and after the successful delivery of food online payment facility is also provided to customers.

As we have noted that in North America there are some colleges where most (approx. 80%) of the faculties thinks that web based technology acts as key bestower to new generation students for their success. Abroad, facility of online lectures has also been provided to students, so that while sitting at home only, students can study in an easy and efficient manner. And for providing and receiving online lectures internet facility is must. It has been also seen that faculties of Canada and United States use internet for their welfare or for making their professional work easy by preparing course work with the help of internet or just for keeping the syllabus and related content updated. From this we have observed that internet is curbing the creativity of people but all the work is done in a proper manner and in less time.

After few years, this facility will also be provided to the professors of colleges in India itself.
There are many peoples who commented that accessing internet has made their lives more comfortable at work and as well as at home. Even now, people cannot imagine their life without Internet. But there is concern about the privacy and security online and within few years it will also get solved.

III. FUTURE OF INTERNET

Future internet is a term which directly indicates the modification of the existing internet activities in better way so that internet helps us in accessing appropriate information. We can define the future of internet as "the evolvement of internet".

One of the examples is "Home automation using internet".

Home automation generally refers to controlling the home appliances via remote or automatically. In future a internet based device will be constructed which will help us in controlling the lights, remote controlling curtains, power sockets etc. These devices will be simply designed and will be controlled by the web browser. There is a hardware and software company namely, "Arduino" which designs microcontroller kits and with the help of these kits the digital devices can be constructed. The devices which are Arduino based, they have ability to communicate with each other bi-directionally. These devices may or may not be at the same place. Home appliances can be controlled through remote only at the place where we can easily access the internet. The whole process is totally based on the cloud services.

Another example we can take of "Automated Car". Development of automated car includes various hardware such as, Raspberry Pi, relay board etc. It firstly includes the connection between Raspberry Pi and internet. When the connection gets established then user of car will open the webpage and there many choices will be provided related to the car functionalities. There will be two buttons power ON and power OFF buttons. When the user will press power ON button then that signal will be received by the server and then that signal will travel to the Raspberry Pi. And at last that signal will travel to the relay board then owner can control the car function by accessing the internet. There are various car functions which can be controlled by the user of the car such as Power Window (ON and OFF), Car lock (LOCK and UNLOCK), Car horn (ON and OFF), Car Headlight (ON and OFF), Air Conditioner (ON and OFF).

IV. NEED OF FUTURE OF INTERNET

We know that Internet helps everyone in their specific purposes like for students in their studies, for online shopping, and many more. But in case of studies, internet curbs the creativity of the student because children don't use their thoughts instead they just prefer to get the answer with the help of Google. There are four main themes of Future of Internet which are namely as follows:

1.) Transformation
2.) Access
3.) Governance
4.) Security

In Transformation, the sectors (both private and public) are reshaped by creating new markets for business. The next thing, opportunity and challenge are to get various better sources of income and value from digital transformation.

In Access, there are people who are found offline rather than online. The United Nations has decided to provide the global access of internet to people freely to remove the poverty and to make the better environment.

In Governance, there are some rules which governs the use of every type of information available on the internet and that should be unique and proper according to the technological change. Cyber world is governed by some rules which are tested on the daily basis as government is concerned about the security and privacy of data.
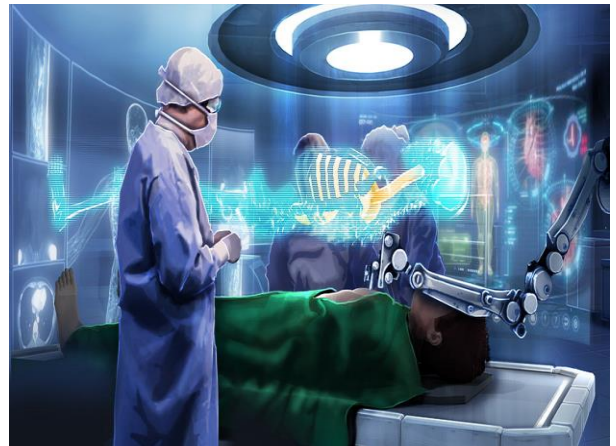
In Security, there are many organizations which exchange their information, so the internet should be secure so that data is not leak out. Individuals do transactions confidentially so security is must. In future security issue will be more powerful provided by the internet.

So, here are few advantages and disadvantages of the future of internet:

ADVANTAGES:-

1. In future, speeding up of network will help in making better communication without any interrupt.

2. Automatic driving will be possible with the help of internet in future.

3.

In the field of medical science, with the help of internet, the surgery can be easily done by doctors as well as machines.

4. Fully home automation will also be provided with the help of internet. There are so many things which are working in present related to the home automation but fully automated home will be developed within few years.

5. Internet also plays a vital role in the field of education. In the education system, if we need more information related to any subject we have encyclopaedia for searching. In future we will be provided lots of data and communication resources.

the uplifting discussions and cooperation. Last not the least, we thank our families: our parents, for supporting us throughout our life.

V. CONCLUSION

Internet is very useful for every person. Before, accessing the internet was more expensive in comparison with today. In future, cost of internet will be reduced accordingly. The evolution of the current Internet will continue as a support of many valuable applications of our society, economy and digital life. Nevertheless, the internet principles were not designed to address the future challenges raised by mobility, security, management or scalability. It is the right time to start exploring new research ideas to enable the design of the future digital infrastructure. At the same time, it is fundamental to develop a disruptive research on methodologies to assess and understand the properties, laws and performance of the future systems.

The Internet is a fine source for professional research or for class use of cost-free quality articles, news items, opinion pieces, statistics, official documents, reports, scholarly papers, public opinion surveys, and maps. Internet is very useful for every person. Before, accessing the internet was more expensive in comparison with today. It is the super highway of information. The cost of the computer system, modem and other associated hardware is also likely to come down. In case computer system is not available, one can browse internet over the mobile phones. All major smart-phones support browsing functionality.

The possibilities of an internet are endless. However, some people waste their time while surfing through various websites. Some others try to view those websites that area meant for them. This is a bad tendency and must be checked. Internet must be used for development and not for decay.

People must learn Internet operations and must try to collect only the useful information.

Finally, in thinking about designing the future and experimenting with new architectures, it is expected that researchers will have to deal with conflicting goals in the process.

REFERENCES

[1]   http://www.spinfold.com/futureinternet/
[2]   www.slideshare.net
[3]   http://www.ece.northwestern.edu/~mya671/Acknowledge.htm
[4]   www.ijceronline.com
[5]   www.tutorialspoint.com
[6]   www.ideals.illinois.edu