Study about Ethics of Information and Communication Technology (ICT): Islamic Perspective

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ABSTRACT
Information Technology (IT) services provide important part in development of the advanced society which represents moral responsibility to motivate the society for an authorized return. Ethical issues directly related to use of unethical use of IT services. This paper reflects some of the IT Ethics and relates to Islamic rules. These ethics implements to protect the human rights and others privacy related issues from IT point view. Allah, (SWT) as quote from Qur’an the standatds for all human Beings to live peacefully without harming others personal efforts, authority, ethics). Our study summarizes to discuss about four major IT Ethics references from Quran and Sunnah.

Keywords
Information and Communication Technology (ICT), information technology Ethics, (ITE) Islamic Ethics (IE).

1. INTRODUCTION
In this modern growing society, many countries, have experienced ethical issues that exploit weak, unabated materialism, Unauthentic approach and widespread immorality. However, Islam as a complete religion and give us a solution to all the matters for disorganized community especially for Muslims. In fact, had the Islamic work ethics being adhered to, the Muslims could have become the important part and strong power. This is because, comprehensive religion like Islam. The Quran and Sunnah contained much guidance which could form the Muslim’s key to success. In our study first part belongs to Principles and Guidelines for IT Based on Islamic Teaching. Then presents the Categories of Ethics in Islamic point. The Next part concerns about the different shades of Islam about IT Ethics, Attitude towards Hard work, attitudes to time and attitudes to leisure as well as Islam and the concept of motivation. Finally, our study summarizes the disadvantages and harm full effects of not obeying in the light of Quran and Sunnah [1].

1.1 Principles and Guidelines for IT Based on Islamic Teaching
Three principals belong to guiding the principal from Islamic perspective and relates to Al-Quran and SUNNAH. Al-Quran is comprehensive guidance of Muslims it covers all the area of human life. Our work follows the frame of work for knowledge and information.

2. ETHICS
The word “Ethics” represents from the Greek word “ethos” meaning habit or custom. Ethics rep behavior based on what is morally good and bad.

- Prophet Muhammad S.A.W. cited that ethics are very much central for Muslims.
- “I’ve been sent to perfect good character.” (Imam Malik)
- There are values related to every area and IT field.
- Implementation must not reflect injustice and avoid all unauthorized and illegal acts [2].

2.1 Categories of Ethics from IT perspective
IT has played an important role in the Muslim life. IT applications are used for Islamic purposes to serve community, also provide services like research collaborations through the Web and broadcasting of news. All Muslim societies need to know about principles and rules for applying this technology.

2.1.1 Framework
The framework depicts the categories of ethics in information technology.
3. IT ETHICS IN ISLAMIC PERSPECTIVE

3.1 Responsibility

Islam has asked the people to be of high level of responsibility. Information Technology (IT) domain needs a high confidence of a user. This user will be a part of hierarchy system that effects on the whole work. The user must be responsible to achieve the tasks which assigned to him.

3.2 Islamic perspective for Knowledge (Information) Ethics

Information representation in Islam is a very valuable asset to gain knowledge and to achieve a successful Islamic environment [5]. And this is spreading with the use of IT. In order for individual to achieve this entire Goal, Islam give attention to follow a safe and accurate way of distribution of knowledge and information [4].

Allah will judge him about what they are responsible for, and what they do in his work?

3.3 Objectives

The user must be responsible to achieve the task which is assigned to him, to keep safe the resources that used like pc, laptop [4], and printer, shared information and so on.

Assure the knowledge and information is free from obstacles and safely conveyed. Use protected resources e.g. hardware and software resources. The person who is responsible, Allah will increase his good deeds otherwise he walks to fire place [4]. It is mentioned in different evidence from Quran to take our responsibility and utilize it in optimal way and without waste resources.

The field of ‘information (knowledge) ethics was established to limit the negative impact towards what?

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Table 1: Possible answers of IT Ethics related questions

<table>
<thead>
<tr>
<th>Question</th>
<th>Possible Answers</th>
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<tbody>
<tr>
<td>What does this study reflect?</td>
<td>Different aspects of IT related ethics in light of Islam.</td>
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<tr>
<td>What are the rights of people in relation to IT (Privacy and Islam)?</td>
<td>Information technology fields are very sensitive standard of privacy that has previously been reported to Islam in Quran book for example “Do not spy on one another.” (49:12) and depends on the success of the field over the privacy they adopted. The rights of IT people that are related to privacy ethic are [3]:</td>
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<tr>
<td>• Right of publicity</td>
<td></td>
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<tr>
<td>• Right of security of personal information</td>
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<tr>
<td>• Right of sharing and movable boundaries</td>
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<tr>
<td>• Intellectual property rights</td>
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<td>• Information protection rights.</td>
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<tr>
<td>• Freedom of data transfers rights.</td>
<td></td>
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<tr>
<td>At what extent can one to improve and achieve equity with the implementatino of IT?</td>
<td>There are a lot of techniques that are always taken to enforce the people for applying the privacy ethic. Also the existence of this ethics in Islam motivates people to apply it not just for ethical but also as a way to please Allah. All of these help to achieve and improve using IT technology. The programmers motivate to implement various techniques used for privacy rights in wide level which leads to equity in most IT fields in effective and safety way [4].</td>
</tr>
<tr>
<td>What protection can be possible by IT [2]?</td>
<td>IT attempts to ensure the security of information or manipulating on it. IT has raised the level of data protection through various techniques which depend on the experience of programmer [2].</td>
</tr>
</tbody>
</table>

3.4 Disadvantages

The harmful effects that will be resulted if they do not adopt this ethics:

- The information and data that used will be lost in any time.
- The cost of using IT in various domains will be increased because there are wasting resources.

There are no good deeds and benefits that will be in return to IT worker, he will be forfeited the current and day of judgement.

4. NETWORK ATTACKING TECHNIQUES

Nowadays internet makes everything easy for Society. On the other hand, there are some drawbacks for usage of network. The exchange of information data onto the network is not secure by unauthorized access and users at any time. There are many techniques that used for stealing information such as Eavesdropping, Data modification, identify spoof (IP address
spoofing), Password based attack and Denial – of – Service Attack [3].

4.1 Islamic perspective for attacking (obtrusion) Ethics:
The existence of Information Technology in various huge domains leads to be computerized environments. The human behavior to use information, steal or attacks reflect the human Islamic ethics. Interference and espionage are described in Islamic law as generalized issues. They are considered as unethical Islamic issues because the Islam is asked the people not to interfere in each other; also the Islam prevents them to butt in others [1].

4.2 Objectives:
Information Technology is an attractive environment for attacking process because it has the confidentiality personal information and all communication partners that help the attacker to read, steal or interrupt them. The important of saving information of attackers is to work in smoothly environment as the Islamic one without effect any harmful to other part through acted unkindly behaviors such as changing the stored data or exploit messaging to anyone through specific user name and password. The evidence that describe the prevention of attacked issues is shown below [2].

On the authority of Abu Hurairah, who said: The messenger of Allah said: “Part of someone's being a good Muslim is his leaving alone that which does not concern him,” fine hadith narrated by Termithi and others

[9:105] And say (unto them): Act! Allah will behold your actions, and (so will) His messenger and the believers, and ye will be brought back to the Knower of the invisible and the visible, and He will tell you what ye used to do.

[49:12] Believers, abstain from most suspicion, some suspicion is a sin. Neither spy nor backbite one another would any of you like to eat the flesh of his dead brother? Surely, you would loathe it. Fear Allah, without doubt Allah turns (in mercy) and He is the Merciful.

4.3 Disadvantages
The consequences of non- adoption of this ethics:
- Trouble environment can be created.
- Damage in the information stored in database.
- Loss of security and privacy issues because the data is attacked.

5. HARD WORK
The effective and efficiency in the quality of work are guided to development and evolution, information technology is a critical domain, all tasks must be done in accuracy and good manner, any careless or doubted work makes a trouble in the work environment and effect on the success or failure of the companies. Islam is asked the people to execute and implement the assigned tasks in optimal way. They must do the works from conscience and sincerity. If the tasks are done sincerely, Allah will bless people and their salaries in current life and will raise the good deed level in hereafter life because they got them as Halal view. That is why people are to do their works in the best way even there is no punishment of the work leader because the important punishment of Allah [4]. Responsible to do responsible to do their works in the best way even there is no punishment of the work leader because the important punishment of Allah [8].

5.1 Islamic perspective for hard work Ethic:
Information technology is considered as a crucial material, because it has soft detailed data related to specific domain. The work related to IT domain must be accuracy and confirmed because it is depended on IT procedure. Any rubbish or mess of usage information technology will conflict the data mad leads the data and then leads to information damage. Islam encourages the people in clear message to work perfection, to use information in optimal usage and do maximum effort to finalize the work in efficient way [6].

5.2 Objectives:
The work hard in any tasks related to information technology is increased IT development and revolution. It is opened for new thinking process of solving problems using information technology. It is affected on the security of information that manipulated or accessed on it. Hard work is accomplished by person itself motivated by Islam. The Quran and Hadith is guided us this ethics.

6. TIME UTILIZATION
Time has an intrinsic value in our Lives. Information Technology is a big world that needs a lot of time to accomplish some tasks. The time importance is drawn in the Islamic ethics through good usage of time. Time utilization means determining specific time to accomplish specific tasks and not wasting one’s time through the usage [1].

6.1 Islamic perspective for time Utilization Ethics
Information Technology is a big world needs a lot of time to accomplish some tasks. Islam believes that there is a time spending judgment in hereafter life. The time must not be wasted in any way; it will be spent in a good manner because the time is passed daily and Allah will judge the person on how he spends his time, in what you spend, and for what you
spend. If human beings do not waste or abuse time, but rather think of it as a blessing from God then they have every reason to hope for success both in this life and in the hereafter. Islam is our guidance to respect and care of time in any domain. Information Technology (IT) is sensitive to time issues, because the process of the work depends on the information itself, passing, exchanging or manipulating [7].

6.2 Objectives:
The time that needs to perform task related to IT domains must be expected to complete the task in specific time. Any lateness or wasting time may be an effect on the system itself, like spending salaries, reservation tickets and so on. It helps to keep the information up to data immediately. That leads to the developmental revolution. Time utilization encourages doing the work in perfect way based on the specific time. Also, it makes the environment as work optimally even through each IT worker spend his time in effective way that is related to work environment. So there is no time to make problems between users, open unethical sites, or thinking to do any work in the perfect way based on the specific time. Also, it makes the environment as work optimally even through each IT worker spend his time in effective way that is related to work environment. So there is no time to make problems between users, open unethical sites, or thinking to do any computer crime because his time is full and spent in optimal way. This ethics is controlled through Allah swears with time in the Quran and the Prophet stresses the importance of Time.

Abu Barzah (May Allah be pleased with him) reported:

Messenger of Allah (ﷺ) said, “Man’s feet will not move on the Day of Resurrection before he is asked about his life, how did he consume it, his knowledge, what did he do with it, his wealth, how did he earn it and how did he dispose of it, and about his body, how did he wear it out” [At-Tirmidhi].

6.3 Disadvantages:
- Interrupt the information and communication process.
- Slowing down the development and evolution.
- Trouble environment will be created.
- Failure and damage of institutions.

7. CONCLUSION

Many services in current society work online with advanced technologies; it might be a big loss in case of any exploitation activity. Therefore, more effort is required to make awareness of the advantages and disadvantages of using IT services, putting some guiding principles and security measures to avoid misuse of services. Islamic teaching conveys a full meaning of information in every aspect of life.

This research shows that there are some issues that are common to IT ethics. It is very important to develop the Islamic outlook to IT ethics especially since to know the most Islamic countries place it at the center of their legal Acts for computer crimes like Saudi Arabia.

This study will be helped non-Muslim users in knowing more and more about Islam how to gather all ethics that will be treated with others in various domains.

8. REFERENCES