**DATA PROTECTION, PRIVACY & FREEDOM OF INFORMATION**

**Why is privacy an important issue?**

* In recent years there has been a growing fear about the large amount of information about individuals held on computer files.
* In particular it was felt that an individual could easily be harmed by the existence of computerized data about him/her which may be inaccurate or misleading and which could be transferred to an unauthorized third party at high speed and very little cost.

**The Data could be**

**> Healthcare** records > **Criminal justice** investigations & proceedings > Financial institutions & transactions

**> Biological** traits, such as genetic material > **Residence** and geographical records > **Ethnicity**

> Privacy breach **>** Location-based service and geolocation

**Data mining:** "We may use information about you that we collect from other Facebook users to supplement your profile”

* Inability to voluntarily terminate accounts (previously)
* Photo recognition and face tagging 2011
* Timeline
* Psychological effects

**What is the Data Protection Act?**

* Freedom to process data vs. privacy of individuals.
* 1984 act was repealed by the 1998 act.
* Anyone who processes personal information must comply with the eight principles
* It provides individuals with important rights, including the right to find out what personal information is held about them

**Data protection act 1998**

Main objective of Data Protection Act was designed to protect individuals from:

* the use of inaccurate personal information or information that is incomplete or irrelevant;
* the use of personal information by unauthorized persons;
* Use of personal information other than the intended purpose

**Terms of the data protection Act**

* **Personal** **data:** It’s an information about a living individual
* **Data users:** are organizations or individuals who control the contents of files of personal data – i.e. who use personal data which is covered by the terms of the act
* **A Data subject:** is an individual who is the subject of personal data
* **Data controller:**  means a person who determines why or how personal data is processed. This may be a legal person or a natural person.

**Rules of Data Processing**

Processing means obtaining, recording or holding the information or data or carrying out any operations on it, including:

* organization, adaptation or alteration of the information or data,
* retrieval, consultation or use of the info or data
* disclosure of the info or data by transmission, dissemination or otherwise making available, or
* alignment, combination, blocking, erasure or destruction of the information or data.

**How can the Data Protection Act help us?**

* It gives us the right to see our files
* It says those who record and use personal information must be open about how the information is used.
* It must follow the 8 principles of ‘*good information handling’*

**Main principles of the 1998 Act**

Personal data must be:

**First data protection principle: fairly and lawfully processed**

* Personal data shall be processed fairly and lawfully and in particular shall not be processed unless:
* at least one of the conditions in Schedule 2 is met and
* in case of sensitive personal data, at least one of the conditions in Schedule 3 is also met.

**Second data protection principle: processed for limited purposes**

* Personal data shall be obtained only for one or more specified and lawful purposes, and shall not be further processed in any manner incompatible with that purpose or those purposes.
* Data controllers must notify the Information Commissioner of the personal data they are collecting and the purposes for which it is being collected.

**Third data protection principle: adequate, relevant and not excessive**

* Personal data shall be adequate, relevant and not excessive in relation to the purpose or purposes for which they are processed
* Many violations of this principle are due to ignorance rather than to intent to behave in a way contrary to the Act.
* Local government has a bad record of compliance with this principle, for example shops that demand to know customers’ addresses when goods are not being delivered are also likely to be in breach of this principle.

**Fourth data protection principle: processed in line with your rights**

* Personal data shall be accurate and, where necessary, kept up to date.

**Fifth data protection principle: held securely**

* Personal data processed for any purpose or purposes shall not be kept for longer than is necessary for that purpose or those purposes.
* It is necessary to establish how long each item of personal data needs to be kept. Auditors will require that financial data is kept for seven years. Action in the civil courts can be initiated up to six years after the events complained of took place so that it may be prudent to hold data for this length of time.

**Sixth data protection principle: measures shall be taken against unauthorized or unlawful processing of personal data & against accidental loss or damage**

* Personal data shall be processed in accordance with the rights of data subjects under this Act.
* The 1984 Act gave data subjects the right to know whether a data controller held data relating to them, the right to see the data, and the right to have the data erased or corrected if it is inaccurate.

**Seventh data protection principle: transferred to countries with adequate data protection**

* Appropriate technical and organizational measures shall be taken against unauthorized or unlawful processing of personal data and against accidental loss or destruction of, or damage to, personal data.

**Eighth data protection principle:** **transferred to countries with adequate data protection**

* Personal data shall not be transferred to a country or territory outside the European Economic area unless that country or territory ensures an adequate level of protection for the rights and freedoms of data subjects in relation to the processing of personal data*.*

**Rights of Data Subjects**

The 1998 Act extends this right of access so that data subjects have the right to receive:

* a description of the personal data being held;
* an explanation of the purpose for which it is being held and processed;
* a description of the people or organizations to which it may be disclosed;
* an intelligible statement of the specific data held about them;
* a description of the source of the data.

**Data protection Act in Pakistan**

The following Data Protection acts Exists in Pakistan:

* The electronic data protection and safety act 2005
* Prevention of Electronic Crimes Ordinance, 2007, 2008, 2009, 2012.
* Prevention of Electronic Crimes Act, 2014

**Freedom of Information**

* The primary purpose of the Freedom of Information Act is to provide clear rights of access to information held by bodies in the public sector. Under the terms of the Act, any member of the public can apply for access to such information.
* The Act also provides an enforcement mechanism if the information is not made available.
* The legislation applies to Parliament, government departments, local authorities, health trusts, doctors’ surgeries, universities, schools and many other organizations.

**Freedom of Information Ordinance 2002**

* Under the Freedom of Information law, any citizen can seek any information or record from any public body, except for information categorized by law as exempt from disclosure.
* The Right to Information Act (RTI) is an Act of the Parliament of India "to provide for setting out the practical regime of right to information for citizens" and replaces the erstwhile Freedom of information Act, 2002.
* In Pakistan, KPK and Punjab assemblies have also passed RTI acts in 2013.

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**INTERNET ISSUES**

**The Internet**

**Benefits that the internet:**

* The access to all sorts of information is much easier
* It has made communications between people much cheaper and convenient
* Many types of commercial transactions are simplified and faster due to the internet
* These benefits have been made available to very many people, not just to a small and privileged group

**Disadvantages of Internet:**

* Illegal or inappropriate materials
* Addiction to online social networks
* Spread of Spam or Viruses

**Internet related issues:**

|  |  |  |
| --- | --- | --- |
| Lack Of Creativity | Abandonment Of Family | Lack Of Face To Face Communication |
| Internet Addiction | Privacy Disrupted | Cheating |
| Cyber Bullying | Insomnia | Moral Corruption |
| Waste Of Time | Physical Inactivity |  |

**Laws:**

* Every country has laws governing what can be published or publicly displayed
* Typically, such laws address/handle defamation, that is, material that makes unwelcome allegations about people or organizations
* They may also cover other areas such as political and religious comments, incitement to racial hatred, or the depiction of violence
* Every country has different laws
* In some countries, publication of material criticizing the government or the established religion is effectively forbidden
* While in others it is a right guaranteed by the constitution and vigorously defended by the courts
* The coming of the internet (and satellite television) has made these differences much more apparent and much more important than they used to be
* Since material flows across borders so easily, it is both much likelier that material that violates publication laws will come into a country and more difficult for the country to enforce its own laws
* The roles and responsibilities of ISPs are a central element in the way these issues are addressed
* In Europe, the position is governed by the European Directive 2000/31/EC. In the UK this directive is implemented through the Electronic Commerce (EC Directive) Regulations 2002
* According to EC Directive, Roles that an ISP may play: **mere conduit, caching, and hosting**

**Role of mere conduit:**

* ISP does no more than transmit data
* ISP does not:
* initiate transmissions
* select the receivers of the transmissions
* select or modify the data transmitted
* ISP can store the information temporarily, provided this is only done as part of the transmission process.
* In case an ISP is acting as a mere conduit, the regulations won’t hold it liable for damages or for any other criminal sanction as a result of a transmission.

**Role of caching:**

Caching role arise when:

* Information is subject of: automatic, intermediate and temporary storage
* for the sole purpose of increasing the efficiency of the transmission of the information to other recipients of the service upon their request
* An ISP acting in the caching role is not liable for damages or for any criminal sanction as a result of a transmission, provided that it:
  + Does not modify the information
  + Complies with conditions on access to the information
  + Complies with any rules regarding the updating of the information, specified in a manner widely recognized and used by the industry.
  + Does not interfere with the lawful use of the technology, widely recognized and used by the industry, to obtain data on the use of information
  + Acts expeditiously to remove or to disable access to the information he has stored upon obtaining actual knowledge of the fact that the information at the initial source of transmission has been removed from the network, or access to it has been disabled, or the court or an administrative authority has ordered such removal or disablement.

**Role of hosting:**

* Where an ISP stores customer information, it is acting in a hosting role.
* In this case ISP is not liable for damage or criminal sanctions provided that:
  + It did not know that anything unlawful was going on
  + Where a claim for damages is made, the ISP did not know anything that will lead to something unlawful
  + When it found out that that something unlawful was going on, it immediately tried to remove the info or prevented access to it
  + The customer was not acting under the authority or the control of the service provider

**Internet Service Providers:**

* In the UK, the ISP is allowed to release the information and can be compelled to do so by a court
* In the USA, ISPs cannot in general be required to release the information, although they may be required to do so in the case of serious crimes

**Law across National Boundaries**

**Criminal Law:**

* Suppose that you live in country A and on your website, you publish material that is perfectly legal & acceptable in country A, but it is a criminal offence to publish in country B. In that case you can’t be prosecuted in country A and it is very unlikely that you would be handover to country B. To avoid getting into trouble, you might however, be careful in not visiting country B voluntarily.

**Civil Law:**

* For some parts of the civil law where the position is reasonably clear cut. Any contract that involves parties from more than one country should, and usually will, state explicitly under which jurisdiction (that is, which country’s laws) it is to be interpreted.
* Where **intellectual property law** is concerned, there are international agreements to which most countries are signatories so that there is a common framework, though it can be very difficult to enforce the rights in certain countries.

**Defamation:**

* Defamation means making statements that will damage someone’s reputation, bring them into contempt, and make them disliked, and so on.
* In British law, spoken offence is called **slander** and written is called **libel** (It could be email).
* Defendant needs to prove that:
  + He was not the author, editor or publisher of the statement complained of.
  + He took reasonable care in relation to its publication
  + He did not know and had no reason to believe, that what he did caused or contributed to the publication of a defamatory statement.
* If any objectionable material is published on, for example, newspaper, website etc. the complainant can take action against the publisher of the newspaper, and the editor etc.
* What if something objectionable is posted on a forum of a university?
  + When the libel is published on a web page, on the university site, the university can reasonably argue that it cannot possibly vet everything that every one of its 1,000 students puts on their personal web page.
  + It is not, in fact, publishing the pages, it is only providing an infrastructure that allows students to publish their own web pages. In the terminology used in the 2002 Regulations it is acting in a hosting role.
  + Provided, therefore, that it removed the offending material as soon as it had reason to suspect its presence and that the student was not acting under its authority or control, the university cannot be subject to an action for damages
* The First Amendment to the **United States Constitution** guarantees a right to free speech that the US courts have always been eager to defend.
* The result is that many statements that might be considered defamatory in the UK would be protected as an exercise of the right of free speech in the USA

**Organization for Cybercrime:**

Council of Europe approved a draft convention on ‘cybercrime’:

* It deals with objectionable material on the internet, criminal copyright infringement, computer-related fraud and hacking.
* There is an additional protocol relating to incitement to religious or racial hatred, to which signatories to the protocol may also sign up.

**Internet Watch Foundation:**

* In the UK, the Internet Watch Foundation (IWF) was set up in 1996 to monitor and, where desirable and possible, take action against illegal and offensive content on the UK internet.
* It has the support of the UK government, the police and the ISPs.

**The Internet Content Rating Association:**

* The Internet Content Rating Association (ICRA) is an international, independent organization whose mission is to help parents to protect their children from potentially harmful material on the internet, whilst respecting the content providers’ freedom of expression.

**Spam:**

* Unsolicited email sent without the consent of the addressee and without any attempt at targeting recipients who are likely to be interested in its contents.
* In the UK, the directive was implemented by the Privacy and Electronic Communications (EC Directive) Regulations 2003.
* Unsolicited email can only be sent to individuals (as opposed to companies) if they have previously given their consent.
* Sending unsolicited email that conceals the address of the sender or does not provide a valid address to which the recipient can send a request for such mailings to cease is unlawful.
* In the USA it is the responsibility of the recipient to inform the spammer that he doesn’t want to receive the spam. It is legal to send spam if:
  + The person sending the spam has not been informed by the receiver that they do not wish to receive spam from that source.
  + The spam contains an address that the receiver can use to ask that no more spam be sent.
* Registration of Phone numbers:
  + Both the USA and the UK operate successful schemes that allow individuals to register their phone numbers as ones to which unsolicited direct marketing calls must not be made.
  + This should act as a model for preventing spam; indeed, the CAN SPAM Act specifically requires the Federal Trade Commission to produce plans for such a register within six months.
  + Unfortunately, the technical differences between the internet and the telephone network makes this model unlikely to work with spam.
* Spamming is easy due to forging the sender’s address on an email, and also using other people’s mail servers to send you mail. Due to this fact there are no reliable records that can be used to identify where the spam really came from or to stop it completely.

In most cases, use of the internet is not charged on the basis of individual communications but on the basis of connect time, so there is no recording of individual emails and it costs the same to send an email from Australia to the UK than it does to send an email to one’s colleague in the next office.

**COMPUTER MISUSE**

**Background**

* In recent years, the public has been much more concerned about the misuse of the internet than about the more general misuse of computers.
* Nevertheless, crimes committed using computers form a significant proportion of so-called **white-collar crime** and it has been necessary to introduce legislation specifically aimed at such activities

**Cyber Crime**

* An act against the public good
* Each statute/Law that defines a crime must specifically explain the conduct that is forbidden by that statute.
* No act can be considered a crime unless it is prohibited by the law of the place where it is committed and unless the law provides for the punishment of offenders.

**Computer Crime**

* Computer crimes refer to the use of information technology for illegal purposes or for unauthorized access of a computer system where the intent is to damage, delete or alter the data present in the computer. Even identity thefts, misusing devices or electronic frauds are considered to be computer crimes.

**The Misuse of Computers Act 1990**

Categories of Misuse:

* computer fraud;
* unauthorized obtaining of information from a computer;
* unauthorized alteration or destruction of information stored on a computer;
* denying access to an authorized user;
* unauthorized removal of information stored on a computer.

**Computer Fraud**

Computer Fraud categories:

* Input fraud **>** Output fraud **>** Program fraud (salami-slicing)

**The Law Commission defined computer fraud as:**

* conduct that involves the manipulation of a computer, by whatever method, dishonestly obtain money, property, or some other advantage of value, or to cause loss.

**The main offences currently covering computer fraud:**

> fraud and theft; > obtaining property by deception; > false accounting;

**Unauthorised Obtaining of Information**

The Law Commission identified three particular abuses:

> computer hacking; >eavesdropping on a computer; >making unauthorised use of computers for personal benefit.

Historically, it has been difficult to convict anyone of computer hacking.

**Under Section 1 of the Computer Misuse Act 1990, a person is guilty of an offence if:**

* he causes a computer to perform any function with intent to secure access to any program or data held on any computer;
* the access he intends to secure is unauthorised;
* he knows at the time when he causes the computer to perform the function that this is the case.

**SECTION 1:** THE MAIN PURPOSE OF THIS SECTION IS TO DETER HACKERS!

**SECTION 2:** SECTION 1 + FURTHER OFFENCE

**Eavesdropping involves:**

– secret listening; – secret watching.

* The aim is the acquisition of information.
* Historically, there has been no right to privacy in the UK.
* The recently introduced UK Human Rights Bill incorporates the European Convention on Human Rights into UK law.
* Privacy is now recognised as a basic human right. For instance, listening to mobile telephone calls is now illegal.
* Most people who misuse computers for personal benefit are in some form of legal relationship with the owner of the computer.
* For example, an employee who does private work on their employer’s computer.
* Here **employment law** can be applied. The unauthorised use of the computer is not a special issue.

**Unauthorised Altering or destruction of Information**

Computers store vast amounts of information about us:

>what we have in the bank; > who we call on the telephone; > what we buy in the shops; >where we travel;

Criminals who **alter or destroy** such information can be dealt with by

**>**the law on Criminal Damage; **>** the Computer Misuse Act 1990 section 3

The law on Criminal Damage seems to apply to physically stored data for example:

**>** Damage or Delete data belonging to someone **>** writing a program that damages the data on a hard disk.

But not:

**>**switching off a monitor so that the display can’t be seen.

**Unauthorised Modification**

Section 3 of the Computer Misuse Act 1990 provides that a person is guilty of a criminal offence if:

* he does any act which causes unauthorised modification of the contents of a computer
* at the time when he does the act, he has the requisite intent and the requisite knowledge.

The requisite intent is an intent to cause a modification to the contents of any computer and by doing so:

* to impair the operation of any computer;
* to prevent or hinder access to any program
* to impair the operation of any such program or the reliability of any such data.

**Forgery**

The unauthorised alteration or destruction of data may amount to forgery.

The Forgery and Counterfeiting Act 1981 says:

* A person is guilty of forgery if he makes a false instrument, with the intention that he or another shall use it to induce somebody to accept it as genuine, and by reason of so accepting it, to do or not to do some act to his own or any other person’s detriment*.*

An “instrument” is usually a written document. However, it can also be “any disk, tape, sound-track or other device on which information is stored by mechanical, electronic or other means.”

E.g., A forged electronic mail message

**Denying Access to an Authorised User**

There are many ways to deny access to an authorised user of a computer:

* + shut the machine down;
  + overload the machine with work;
  + tie up all the machine’s terminal/network connections;
  + encrypt some system files…. etc;

**Various offences deal with:**

* + hacking;
  + unauthorised obstruction of electricity;
  + improper use of telecommunications services;
  + unauthorised modification of computer material;

**Unauthorised removal of Info. stored on a computer.**

* Under the Theft Act 1968, only property can be stolen, and information is not property.
* A floppy disk is protected by law, but the information stored on it is not.

**Examples 1**

* + - A student hacks into a college database to impress his friends - **unauthorised access**
    - Later he decides to go in again, to alter his grades, but cannot find the correct file - **unauthorised** **access** **with** **intent**...
    - A week later he succeeds and alters his grades - **unauthorised** **modification** **of** **data**

**Examples 2**

* + - An employee who is about to be made redundant, finds the Managing Director’s password; logs into the computer system using this and looks at some confidential files- **unauthorised access**
    - Having received his redundancy notice he goes back in to try and cause some damage but fails to do so - **unauthorised access with intent...**
    - After asking a friend, he finds out how to delete files and wipes the main customer database - **unauthorised modification**

**Reasons for Cyber Crime not being reported**

It is tough to punish a Cyber-crime criminal because:

* + - Offences are difficult to prove
    - Evidences are difficult to collect - firms usually do not cooperate with the police
    - Firms are embarrassed or scared about their reputation due to hacking - particularly banks
    - Employees are normally sacked or demoted
    - Police lack expertise; time; money
    - The Cyber-Crime is perceived as ‘soft crime’, as no one gets physically injured or hurt

**Current situation**

* Hacking has increased with time, both as a prank and as a professional crime
* A few high-profile cases are reported in the past
* **Offenders are often in other countries with no equivalent legislation**
* Some ‘international task forces’ set up but no real progress

**Pakistan Cyber Crime Bill-2016**

* Electronic Transaction Ordinance 2002
* Electronic / Cyber Crime bill 2007

**Electronic Transaction Ordinance 2002**

■ **Overview**

* The Electronic Transactions Ordinance (ETO), 2002, was the first IT-relevant legislation created by national lawmakers.
* A first step and a solid foundation for legal sanctity and protection for Pakistani E-Commerce locally and globally.
* Laid the foundation for comprehensive Legal Infrastructure.
* It is heavily taken from foreign law related to cyber crime.

**Electronic/ Cyber Crime Bill 2007**

**Overview**

* "Prevention of Electronic Crimes Ordinance, 2007" is in force now
* It was promulgated by the President of Pakistan on the 31st December 2007
* The bill deals with the electronic crimes included:

**>** Cyber terrorism > Data damage > electronic fraud > electronic forgery > Unauthorized access to code

> Cyber stalking > Cyber Spamming

**Sections**

**Data Damage**

* Whoever with intent to illegal gain or cause harm to the public or any person, damages any data, shall come under this section

**Punishment**

* 3 years
* 3 lacs

**Electronic Fraud**

* People for illegal gain get in the way use any data, electronic system or device or with intent to deceive any person, which act or omission is likely to cause damage or harm

**Punishment**

* 7 years
* 7 lacs

**Electronic Forgery**

* Whoever for unlawful gain interferes with data, electronic system or device, with intent to cause harm or to commit fraud by any input, alteration, or suppression of data, resulting in unauthentic data that it be considered or acted upon for legal purposes as if it were authentic, regardless of the fact that the data is directly readable and intelligible or not.

**Punishment**

* 7 years
* 7 lacs

**Spamming**

* Whoever transmits harmful, fraudulent, misleading,
* illegal or unsolicited electronic messages in bulk to any person
* without the express permission of the recipient,
* involves in falsified online user account registration
* falsified domain name registration for commercial purpose commits the offence of spamming.

**Punishment**

* 6 Months
* 50,000