**Computer Ethics**

**Privacy Concerns**

**Data Protection**

Data protection means that information protection. According to Bonderud (2019), data protection is a process of safeguarding data which can affect the balance between individual privacy rights. One of the methods to protect data is hashing which is a process that can transform any given string of characters into another value. The most popular hashes are Secure Hash Algorithm like SHA-1, SHA-2, SHA-3 and Message-digest hash such as MD 2, MD 4, MD 5. The differences between MD 5 and SHA-1 are the size of the bits length of message digest and their complexity. In the case study in book trading, the purpose of hashing is to protect the data of sellers and buyers (MK, 2020). Besides, it also helps to minimize error and improve the customer services. For instance, information filled for payment online should be protected. This is because it includes the important card privacy like card number and password. Besides that, when entering delivery address, the address must also be hashed so that no one is able to access the information. To prevent the leakage of data or seen by the staff, data inserted for online payment should be hashed before entered the database management system. Thus, data protection is very important in computer ethics.

**Intellectual Property Rights**

**Copyright**

According to Ward (2020), copyright is a legal term used to describe the rights that creators have over their proprietary publication, distribution and usage rights which means that without the permission of the creators, anyone are not given permission to changed or disseminated idea of the creators. In the case study in book trading system, the aim of copyright is to prevent anyone from theft or misuse the creators’ idea and becomes their own idea. Additionally, it also provides the exclusive rights to creators (Sulaiman, W.H., Al-Fulaiti, and Al.Ma’wali, M.M., 2020). For example, if book trading system have two or more published books with the same content then it will touch the rights and punishment will be given to the plagiarizer. Hence, purpose of copyright is to prevent this situation happened.

**Plagiarism**

Plagiarism can be defined as an act of stealing and publishing someone’s creativity, ideas or language as oneself work without proper citation (Moulsem, 2015). People can use the plagiarism checkers on Internet or citation to prevent plagiarism happened. In book trading system, plagiarism checkers and citation are always used to prevent such situation happened. This is due to plagiarism checkers are speedy and also provide the determination of similarity so we can edit our work to a standard percentage rate to prevent plagiarism happened (*Business Case Study*, 2019). Subsequently, according to Sankaran (2016), citation means that a reference to tell your readers that certain information for your work is came from another source and also telling the creators that you are borrowing. The goal of using citation is giving credit to the creators which is the only way to use others’ work without plagiarizing. Therefore, plagiarism checkers is an important application.

**Effects on Society**

**Social Impact**

Nowadays, technology has shown its significance in our daily routine. With the advancement of technology, our daily routine becomes more simpler and faster no matter in the range between senior citizens or teenagers (Ismail, 2017). In addition, during this pandemic period it bring significant advantages to the seller and the customers (system users) where both sides are able to sell and purchase the product in contactless way. In relation to Book Trading System, it contains lots of technology elements such as e-shopping, e-payment and e-communications.

First and foremost, the Book Trading System is eased to use where it contains user friendly interface and allow users to search and purchase their favorite book easily in once glance. Furthermore, the system also promotes the economy where it provides a virtual platform to sellers to sells their product during the pandemic period. Subsequently, the e-payment gain trust in this technological era and provides easy payment method to individuals who using the system. Additionally, the system also provides a communicate platform for the users to inquiry for the books details for obtaining further information. Last but not least, computer technology helps online shopping by automating processes, reports and analysis. The sellers and customers (system users) able to refer back to the orders details, products details and so on.

In consequently, the Book Trading System provides many advantages to individual from all sectors.

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