Technological University of the Philippines - Manila

College of Science - COS/CLA Building

Computer Studies Department

# ACTIVITY #2

CS433 - Social and Professional Issues

# CYBERSECURITY

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BSCS - 4B

**Submitted To:**

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**Instruction:** Please review the attached document on Cybersecurity and relate it to the process of enrollment in our university and other government agencies processes.

Every website or online public application contains important data from its users. For example, TUP-Manila holds sensitive information from students, teachers, and staff, such as names and addresses. Similarly, government processes collect data for various purposes, like improving services. Protecting this vast collection of data is crucial, as it prevents privacy violations, cybercrime, and fraud. Failing to safeguard these data could lead to identity theft, legal consequences, and loss of public trust, making it vital for organizations to ensure strong data protection measures.

In TUP-Manila, based on my experience, the website's security is not as robust as it should be, with several issues compromising its integrity. Students have been able to bypass the system and view their grades, which raises serious concerns about data privacy. If students can easily access their records, it's possible for others to view or even manipulate personal information and academic records. Government agencies and organizations recently have a lot of news regarding data breaches and its security failing to protect its collected data. These data breaches are alarming as they pose a threat to people and the country as it continues to grow, especially for people who know nothing about data and technology. This not only jeopardizes individual privacy but also opens the door to identity theft or unauthorized data access.

When creating an application whether web or any platform, the top priority should always be the users and the protection of the data collected from them. Ensuring robust cybersecurity measures from the outset safeguards sensitive information, builds trust, and prevents potential breaches. To enhance security, organizations should implement additional measures such as encryption, multi-factor authentication, regular data backups, and recovery plans. By establishing strong data protection protocols, organizations not only ensure the privacy and safety of their users but also uphold their own integrity and reputation in the digital landscape.