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Exam: Mid term

Paper: Professional Practice

Q1: What might a software engineer do that is that is:

- Illegal, immoral, unethical?
- Legal, immoral, unethical?
- Legal, moral, unethical?

**Answer:**

If a company of a software engineer builds a software that is ultimately deemed federally illegal than such thing is an illegal act for software engineer or that company and they are liable to be potentially sued or legally punished.

If an act is illegal than ultimately it unethical and immoral.

- Software is developing in a complex legal and economic framework. If software engineer builds a program or anything that is legally correct but affects some ones jurisdiction intellectual property or privacy etc. than that is considered legal but immoral and unethical.
- If a software engineer has done something that is legally and morally correct than that cannot be unethical.

Q2: Why educational institutions include ethics awareness in software engineering courses? Give answer while keeping in mind current changes in software industry. For example, social media application, mobile games and flourishing ecommerce industry

**Answer:**

As in this era we are looking for many changes in the software industry like social media.

Applications, mobile games and flourishing e-commerce industry. That's all due to ethics.

Because of ethics we define socially acceptable behaviors established by various organizations to produce a positive effect on judgment, to establish responsibility of professionals to act ethically according to the policies and procedures of their employers, professional organizations and laws of society. That's why educational institutions include ethics awareness in software engineering.

Q3: Cyber Ethics is considered as more accurate label than Computer Ethics and Internet Ethics. Explain why?

**Answer:**

Cyber ethics is a more accurate label than computer ethics, which might suggest that the study of ethical issues is limited to computing machines, or to computing professionals.

It is more accurate than Internet ethics, which is limited only to ethical issues affecting computer networks.

Q4: Apply the ethical decision making code in the following cases:

- a) Ali reused the licensed software code without getting any permission, payment or without getting any permission, payment of acknowledgement in the document.
- b) Incorporated other colleague's component in application without his knowledge.
- c) A Samsung programmer did not describe complete details of vulnerabilities in security applications.
- d) The employer told a designer to design Blue National card to white people and Brown for Black people.

**Answer:**

a) Ali is obviously doing illegal immoral and unethical practice by not paying for software code. Even if the code is open source, Ali has to at least acknowledge the addition of the code by giving reference to that respective code.

b) If the component is copy righted, it is illegal and if it is not copyrighted then it is still immoral and unethical to incorporate acknowledge that he/she is using someone else, work but he/she is using someone else, work but colleagues should be supportive to their other colleagues.

c) Samsung programmer has to mention full set of vulnerabilities because anyone's data can be hacked or compromised.

d) This racial discrimination against brown and black people because everyone should equal opportunity to have one type of card.

This is immoral and unethical but not illegal but there are no actual law-suite against it

Q5) You are the owner of a software engineering company. Your employees (engineers) want you to pay for them to attend training. How would you respond in a way that is legal, moral and ethical?

**Answer:**

My response will depend on the importance of the training. If the company will get benefit out of it, I will pay for their training but I will send them with instructions so they get the most out of it. But if it doesn't benefit the company I will never pay for their training and give them a warning in such a way that it will never encourage them to go for it (even if they do I can legally take action as the warning is already being given).