



# ICT LAW, POLICY AND ETHICS

2021

# ASSIGNMENT

Topic : Applying IEEE-ACM Code of Ethics for the Software Engineers in Bangladesh: A Case Study

A Case Study

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### Public :

Ethics has long been a part of engineering education. Computer Science and engineering (CSE) is not an exception. Software engineers must commit themselves to making software engineering a beneficial and respected professional practice. Software engineers shall adhere to the following code of ethics and professional.

My elder Brother work in a Software Company. I was talked with him for Survey about the code of ethics. He said that, Now Bangladeshi engineers try to follow the code of ethics rule. But it also true that some low level company and engineer have no strong idea about software engineering code of Ethics and professional practice.

Now Bangladeshi engineers very conscious about public. The software engineers try to act consistently with the public interest. The engineers approve only if they have a well-founded belief that it is safe and does not diminish quality of life or not harmful for the environment. They are trying the ultimate effect of the work should be the public good. They must improve their understanding of the software related document on which they work. If software engineers shall adhere to the following code of ethics hope that in future do well our country software engineers and always do work for the public.

## Client and employer

Software engineers shall act in manner that is in the best interests of their client and employer consistent with public interest.

By surveying we known that, most of the software engineering Company don't follow the rules. Actually they don't know about it. But which have international client they follow the rules. They provide in their areas of competence, being honest and forthright about any limitations of their experience and education. They ensure that any document upon which they rely has been approved, when required by someone authorized to approve it.

They accepted no outside work detrimental to the work they perform for their primary employer. They promoted no interest adverse to their employer or client, unless a higher ethical concern is being compromised, in that case, inform the employer or another appropriate authority of the ethical concern.

Software engineers shall commit themselves to making the analysis, specification, design, development, testing and maintenance of software a beneficial and respected profession. In accordance with their commitment to the health, safety and welfare of the public, software engineers shall adhere to the following client and employer principle.

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### Product

Software engineers will ensure that their product (software, website) and related modifications maintain the highest professional standards possible.

By surveying we could know, some of the some of software company in Bangladesh do not follow the rules and some of the company follow it properly. Dream71 Bangladesh Ltd is one of them. They ensure the achievable goals and objectives for their project. We can also know that they are very aware about their product and promise to do their best to deliver software that does not fail. Their main goal is to develop mobile application, software development and game development. They also ensure for this including project (mobile app, game) that they are qualified and propose to work by the combination of education, training and experience.

The Dream71 Bangladesh company, They follow an appropriate method for their project. They do doing their project by following Agile model.

which focus on process adaptability and customer satisfaction by rapid delivery of working software product. They follow the professional standards in their project. Demo working software is considered the best means of communication with the customers to understand their requirements. Agile is very realistic approach to software development and that is the main reason. Dream71 company with follow this method. They ensure quantitative estimates of cost, scheduling. The development plan for their project:

- (1) Requirement analysis and gathering - 1.5 months  
(2) Design of system - 2 months  
(3) Coding phase - 4 months  
(4) Testing, Debugging - 2 Months  
(5) User Accepted testing - 5 weeks

They ensure the privacy of software and related documents and use only accurate data derived by ethical and lawful means.

Security breaches are a frequent risk to data integrity face by many organizations. Since the effects of data vulnerabilities are highly critical. For this reason Dream71 Bangladesh company apply extra security protection measure so that they can maintain the data integrity. They also treat all form of software maintenance with the same professionalism as a new development.

Judgement:

Software engineers will maintain integrity and independence in their professional judgement.

As a software engineer, He/she has to maintain human values and has to support the technical judgments. In the Dream71 Bangladesh Company, they maintain human values and they also endorse the documents, which is prepared under their supervision or within their areas of competence (App and game development).

They only endorse App and game related document. They maintain professional objectivity and judge the related documents they are asked to evaluate. The Dream71 do not does not engage in deceptive financial practice.

and reject the bribery. If they face a problem like, they have <sup>two</sup> clients. Then they solve the problem properly. They can avoid it reasonably. For first client, they <sup>complete</sup> completed their project and after doing this they do it for 2nd client.

They also refuse to participate, as members or  
advisors, in a private, governmental or  
professional body concerned with software  
related issue, in which they their employers  
or their clients have undisclosed potential  
conflicts of interest.

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### MANAGEMENT:

Software engineers managers and leaders shall subscribe to and promote an ethical approach to the management of software development and maintenance. In particular, those managing or leading software engineers shall also appropriate:

- Ensure good management for any project on which they work including effective procedures for promotion of quality and reduction of risk.
- Ensure that software engineers are informed of standards before being held to them.
- Ensure that software engineers know the employer's policies and procedures for protecting passwords, files and information that is confidential to the employer or confidential to others.
- Assign work only after taking into account appropriate contribution of education and experience tempered with a desire to future that education and experience.
- Ensure realistic quantitative estimates of cost, scheduling, personnel, quality and outcomes on any project on which they work or propose to work, and provide an uncertainty assessment of these estimates.

- Attract potential software engineers only by full and accurate description of the conditions of employment.
- Offer fair and just remuneration.
- Not unjustly prevent someone from taking a position for which that person is suitably qualified.
- Ensure that there is a fair agreement concerning ownership of any software, process, research, writing, or other intellectual property to which a software engineer has contributed.
- Provide for due process in hearing charges of violation of an employer's policy or of this code.
- Not allow a software engineer to do anything inconsistent with this code.
- Not punish anyone for expressing ethical concerns about a project.

We know that some of the software company in Bangladesh follow the rules and regulation and some of the software company do not follow it.

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They ensure the management of software and related documents and use only accurate data derived by ethical and lawful means.

## Profession

Computer software engineers design, build, test, and evaluate the software and systems that enable computers to perform their many tasks using the principles and techniques of computer programming, engineering, and mathematical analysis. This is essentially an Electronics Engineering degree with a focus on software rather than engineering.

The software engineer of our country has to acquire proper illiteracy and reputation of the profession keeping in view the interest of the people. In order to achieve this fame, software engineers in our country need to promote knowledge among the masses. After cleaning these, we need to check whether the support and other software engineers or members of this profession are following this code of ethics.

Then we started searching by selecting some software firm from the website of Bangladesh. Then I found out the information through some exhibitions in our country. We learned that they have now been able to partially enforce the code of Ethics. Those software firms are BrainStation and BJIT. Not only do I think they are complying with various rules and standards are going to change dramatically.

How much more secure is your profession than other current engineers?

I talked to two senior developers at the Brainstation about this and they informed me that the facilities of other engineers are much more government engineers the benefits are many and they guarantee job security, and I think software engineers are a lot more insecure than that.

Is their profession being evaluated to international standards in the software industry of Bangladesh?

I spoke to two senior developers in the software industry who told me that there aren't many international rules and regulations before but now this work is being rolled out which means they are moving forward with ACM IEEE code of ethics.

They will also be responsible for identifying, correcting and reporting bugs on the software and related documents. I would also like to point out some of the most important recent statements that the client's employer and supervisor are expected to take the next step in its commitment to the software engineer's commitment to this.

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Colleague: Software engineers shall be fair to and supportive of their colleagues.

Here we need to find out how much the software companies in Bangladesh are complying with the IEEE-ACM code of ethics. So first I asked some questions about the colleague's principle of the IEEE-ACM code of ethics. My first question was, "are you aware of your colleague's salary?"

I have talked to 5 software engineers from different companies, of these 4 junior software engineers had the idea that a small company was more workload and paid less. One of them, a senior software engineer didn't respond.

From their response I can say that in small companies, the workload is high, the salary is not paid according to work of junior software engineers and senior software engineers. Salary is much lower according to work pressure. The reason behind this is small company need to do a lot of competing with the market and they always want high output with low budget. Workers of this company do not get their right work value and the owner of the company tried to make more profit by paying low salary to their

engineers and workers. So IEEE-ACM code of ethics is not being obeyed here.

On the other hand, according to 2 software engineers who were from middle size company, we can say that the salary of a medium company is fair. In medium companies' salary is paid properly because this type of company profitable and they want their good workers by giving benefits from company. As the workers enjoy their works and company become more profitable. Also the company owner do not want to lost their valuable workers and they pay well amount of salary and other benefit to workers. Also, those who are in the lower position compete with each other to show themselves hard worker than those who are in the top position.

My second question was, is it necessary to credit to someone for their works? How does your company follow this?

I have talked to 5 software engineers from different companies. Among them 3 junior software engineers who are from small company said that, the salaries of such small companies are much lower according to the workload. For which it is seen that some of them want to takes the credit themselves by doing the work with others. Because they think about increasing their salaries and increasing their position. From the two other senior software engineers who were from middle size

Company and well Company they said that, they have no issue with salary and they always thought the Company profit as they become benefited time to time when Company profit rises. ~~That's why~~  
So here I can say that the IEEE-ACM Code of ethics is not being obeyed here because they cannot be supportive to colleagues. Not giving credit for their work. So the actual problem is not giving the right value of hard work in a Company. If a Company owner give the right value of their workers every part of the Company becomes good and worker friendly.

Al hamdulillahibur Rahman

Date: 17/07/2010

Self

My teacher working in a software company.

I was talked with him about code of ethics. He told me software engineering ethics are subset of engineering and professional ethics applied to design and development of software system.

Then I talked to my senior brother. He work in Data Soft company as software developer.

I was ques to him. I want to participate in lifelong learning regarding the practice of their profession? And the maintain endeavor shall continually?

They like to ans me. He participates in lifelong learning regarding the practice of their profession and shall promote an ethical approach to the profession.

First of all he advanced information of improvements within the investigation, determination, plan advancement. He also said maintenance and testing of software and related reports, beside the administration of the development handles. A software makes strides their capacity of form & secure, reliable and valuable quality computer at sensible fetched and inside time. Move forward to his capacity to create exact, enlightening and well-written documents. Then he told me bangladeshi software developer can't follow every code of this rule set progress every developer understanding of programs are very important. unfair treatment to anyone don't do this. and he said this code are inconsistent with being a professional software engineer. but bangladeshi maximum company don't maintain the standard of code of ethics.