Bangladesh University of Business & Technology

Mid Term Examination on

Project Management & Professional Ethics

Course Code: CSE 407

Submitted to:

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Ans to the ques no - 1 (a)

Software crisis is a term used in computer science for the difficulty of writing useful and efficient computer programs in the required time. It is characterized by inability to develop the desired software project because of such problems:

- (a) project running over budget.
- (b) project running over time.
 - (c) softaeare is inefficient.
 - (d) software is af low quality.
 - (e) software doesn't meet requirements.
 - (1) project is unmanagable/code difficult to maintain.

Fear years earlier the U.S. Airforce faced a major software crisis in its F-35 tighter plane. The plane engineers identified a software bug that causeds the planes, when flying in formation, to incorrectly defect targets. As each of the planes cotthin he formation to incorretly detect targets defect a target from varying angles, the software is reportedly unable to decipher whether there is just one or multiple targets. As one news a agency put it, the F-35's are "seeing double".

Miston

Alandah aha Jakabajanaman di tagara (1)

Graduale Attributes form a set of individuel assessable outcomes that as the components indicative of the graduate's potential to acquire competence to practice at the appropriate level. The graduate attributes are example of the altributes expected of a graduate from an accredited program. Graduate attributes are clear, succinct statemit of the expected capability, qualified if necessary by a range indication appropriate to the type of program.

For example, Engineering knowledge is a graduate altribute and it applies knowledge of mothematics, natural sevence, engineering fundamentals, and an engineering specialization

A professionally or occupational completent person has the attributes necessary to perform the activities within the profession or occupation to the standards expected in independent employment or practice. The professional complicompeten cy profiles for each professional category record the elements of competency necessary for competent performance that the profession is expected to be able to demonstrate in a holistic way at the stage of allaining registration.

For example, at the professional level, the ability to take responsibility in a real life situation to lake responsibility in a real life situation to ensential. Unlike the graduate altributes, professional competence is more than a set of altributes that can be demonstrated individually. Pother competence must be assessed holistically.

Arraver to the question no. (2)

Predicting human behaviour by collecting data using camera, microphone, could be a social experiment.

Well, Now a days are home a lot of problems and as well are a lot of people in our ountry so are can not predict a ever nent- step by simple knowledge. If are use machine learning and analyze they data to predict a human behaviour it could be helpful for our socity.

But how it ould be helpful for our

society?

Well when a men person is goint to commit a crime are can pursue him trans committing the crime.

When a frustrated person goer to commit suicide are can persue him met not to suicid.

This is how by implementing the system as social experient over can use it as for social service.

Answer to the gues. no- (b) 2(b)

The rights that engineers have as professional are called professional Right. These professional rights include -

- (a) The barrie right of professional conscience
- (b) The right of conscientions refused.
- (c) The right to professional recognition.

Right of professional conscience:

The right of professional conscience is to moral right to exercise professional judgeomet in pursuing professional responsibilities. It requires autonomous moral judgement in trying to uncover the most morally reasonable courses of action, and the correct courses of action are not always obivious. There are two general aways to justify the ban'c right of

professional conscience

The exercise of moral reflection and conscience that justifies professional decties is necessary, with respect to that duty

All of maring

-> The general duties to respect persons and rule-utilitisations m would account the public good of allowing engineers to pussue their profossional duties

Right of Consaientions Refusal:

The right of conscientions refusal is the right to refuse to engage in methical behavior. This can be done solely because it deels unethical to the doer. This action might bring contacts within the authority-band relationships.

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The two main situation to be considered here are -

=> When it is already stated that certain act is unethical in a widely shared agreent among all the employeers

> When there occurs disagreenut among a considerable number of people whether the act is unctical.

Right of Recognition!

An engineer has right to the recognition of one's coorle and accomplishments. An engineer also has the right to speak about the work one doors by maintaining enfidatiality and can receive external recognition. The right to 1 stemal recognition which includes potents promotions, raises, etc. along with fair remuneration, is also also a part of it.

Arraer to the question. no- 30

To succensfully complete a project, the term should sonvider some strategic activities whose are called software project management.

To deploy or develop & NX-BUBT the

NX-BUBT developor team must ent

Sollow some roller. Theese rules are:

- 1. Project planning & Tracking
- 2. Project Resource management
- 3. Scope Hanggemet
- 4. Estimation Managemt
- 5. Project Risk Managent
- 6. Scheduling Management
 - 7. Project Communication Management

8. Configuration managent

Besides these rules undr Estimation management the team should also counter Some cost- Like

- Size of softweene
- Suality
- Hardaeare
- Communication
- Training
- Additional software tooks
- Skilled manpower.

we some tools like

Gant chart Perf chart

to trace their progress and flow of the west.

By using there / tooks and tachies
the teram ait be able to develop
the project early.

By I hope when the beam developped the NX-BUBT project they must work theex factions and strategis with these tools to develop the project easily.

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Amour to the question no- 36)

A software project could be turned into. faiture for various aspects. May be as Wales Notional Health Service (NHS) provides the service, it must be a large service, as a result the project became more complex and the cook got bog down. May be there was some design flow, architectural and coole flows in the project. The testers may might missed some functionally and later there problems are formed into a major problem a turned the projectingo a hault down of the last solution

files hour sees of hours contraposit will the

To avoid the scenario, & all the members should be very careful about the

- · Problem identification
- · problem definition
- · Project planning
- · project organization
 - · Resource allowtion
 - · project scheduling
 - · Tracing, reporting & controlling 2)
 - · project fermination

To of run or complete a project effectively
the management should answer 4 p's
whose are people

— product

— procen 2

- project