Fr. Conceicao Rodrigues College of Engineering,Mumbai

SOFTWARE ENGINEERING (CSC601)

Assignment -II

Date: 17-10-23

CO5: Identify risks, manage the change to assure quality in software projects.

Assignment 2

1. What is risk assessment in the context of software projects, and why is it essential?
2. Explain the concept of software configuration management and its role in ensuring project quality.
3. How do formal technical reviews (FTR) contribute to ensuring software quality and reliability?
4. Describe the process of conducting a formal walkthrough for a software project.
5. Why is it important to consider software reliability when analyzing potential risks in a project?

Rubrics :

Indicator	**Average**	**Good**	**Excellent**	**Marks**
Organization (2)	Readable with some mistakes and structured (1)	Readable with some mistakes and structured (1)	Very well written and structured (2)	
Level of content(4)	Minimal topics are covered with limited information (2)	Limited major topics with minor detailsare presented(3)	All major topics with minor details are covered (4)	
Depth and breadth of discussion(4)	Minimal points with missing information (1)	Relatively more points with information (2)	All points with in depth information(4)	
Total Marks(10)				

1) Ans - It is process of identifying, analyzing and evaluating potential risks to the project success.
It is essential as it helps to ensure that project is completed on time within budget.
- why is it essential
- to identify risks before they cause problems
- to make informed decisions about resource allocation
- & improve project success chances

2) It is the process of managing changes made to software system.
Role of SCM in ensuring project quality
- prevents accidental changes to system
- ensuring that all changes to system are tracked and documented
- facilitating the rollback of changes
- Helping to ensure that the system is always in a known and consistent state.

3) They can help to ensure software quality and reliability by:
- identifying and correcting defects early in development process
- improving overall design and architecture of software system
- promoting communication and collaboration between different members of team
- Building confidence in the quality and reliability of software system

4) process of conducting a formal walkthrough
- identify the product to be reviewed
- Select team of reviewers
- schedule the walkthrough
- prepare for the walkthrough
- conduct the walkthrough
- Document the results of walkthrough

5) Reasons why software reliability is important to consider in risk assessment

- Software failures can cause delays
- Software failures can cause cost overruns
- Software failures can damage reputation
- By considering reliability in risk assessment we can identify and mitigate potential risks before they cause problems
- This helps ensure project is completed within budget and required quality standards.