

Soham Ladgaonkar
TE - Comps B
9616

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 details are 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)				
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SE ASSIGNMENT 2

Q.1) What is risk assessment in context of software projects, and why it is essential?

→ Risk assessment in the context of software project is the process of identifying, analyzing and mitigating potential risks or uncertainties that could affect the successful completion of a software development project.

1) Early problem identification:- Risk assessment allows project teams to catch potential problems.

2) Resource Allocation:-

3) Budget & schedule control:-

Q.2) Software configuration management (SCM) is a set of practices & processes that helps control, track, and manage changes to software throughout its development life cycle.

1) Version control:-

SCM system is often referred as version control system which allow users to track changes in source code.

2) Configuration identification:-

SCM helps in identifying & defining software configurations

3) Change Management:-

4) Build Management:-

Q.3) How do Formal Technical Review (FTR) contribute to ensuring software quality and reliability?

→ 1) Defect Detection & correctness:- FTRs involve a group of reviews of who systematically examine the software artifacts in detail. The process is highly effective.

2) Knowledge Sharing:-

FTRs provide a platform for knowledge sharing and learning within a development team. Team members can share their expertise, best practices and domain knowledge during the review.

Q.4)

Verification of requirements:-

FTRs help to ensure that the software requirements by systematically examining the design & code against requirements.

1) Preparation:-

Identify the artifacts to be reviewed. Ensure it's complete & ready for review.

2) Distribution of Materials:-

Distributes the artifacts to be reviewed to all team members well in advance of the walkthrough.

3) Setting the Agenda -

Define the goals & objectives of the review, including what aspects to focus on.