9622

TE COMPS B

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)				

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O What is sist assessment in the content of software projects and voly it is essential?

> Pak assessment is the content of software project is the process of identifying, analyzing, and mitigating potential risks or uncertainties that could affect the successful completion of a softward development projects. It is an executial component of broject managment and involves evaluating the brobability. essontial in software projects. 1) Early problem identification: Pist assessment allows project thoms to identify potential issues before they escalate into critical problems. By suparizing and addressing sizes early, teams can minimize the impact and seduce the lost of sometingation 2) Redource Allocation: - 9t helps in effective allocation of resources, including time, budget, and Berennel. 3) Budget and Schedule sontrol: By identifying ricks selected to cost overviews and scredule delays project pranagers can implement and within budget project on track

Disoliture Configuration Managment (SCM) is a set of practices and processes that helps control, track, and manage changes to software throughout its development difference. SCM encompasses and managment of various software artifacts, including source loads, documentation, binaries, and other project-related assets. Its primary sole is to ensure project quality by maintaining consistency, tracallicity, and version control in software development process.

1) wersion control: - sch system, often referred to a version control system (VCS), enable developers to track changes to source code and project files. 2) configuration Identification: - som help in identifying and defining the software configuration 3) change their agmont = SCM provides a structed process for sequesting, somewing, approving and implementing changes to the software. This holps, is preventing a le unautohouized or uncontrolled Charles, which can introduce lungs, or break ensures that charges are made with a clear purpose and impact assessment 4) Build managment: - SCM/ plays a role in automating and managing the build process, 5) Rolease Managment: -5TM is crucial in managing softwar roloases. It holps in packaging, documenting, and enewing.

3> How do Formal technical Review (FTF) contribute to ensuring software quality and reliability?

Detection and correction: FTRS involue a group of reviews who system-- atically enamine The software artifate in detail Their process is highly effective in detecting defects, such as adding Bereve, design plantes, and logic issues. By identify ing I shase problems at at early stag FARS help prevent these defects from propagating through the doudlop most process reducing the cost and export D knowledge sharing: FTRS provide a platform for knowledge staring and learning within the development team of jears members can shall their emperties, best practices, and demain process. This not only holps in improving the goldity of the

@ verification of Requirements: - FTPs help ensure that the software reguirements by systematically enamining the delign and code against requirements.

@ Breparation: - Idonify the artifact to be reviewed Ensure its

complete and ready for levilus.

- Assemble a review team consisting of relevant stateholders, which may include I diverpose, tester, architects, and subject matter expects.

@ Distribution of natorials.

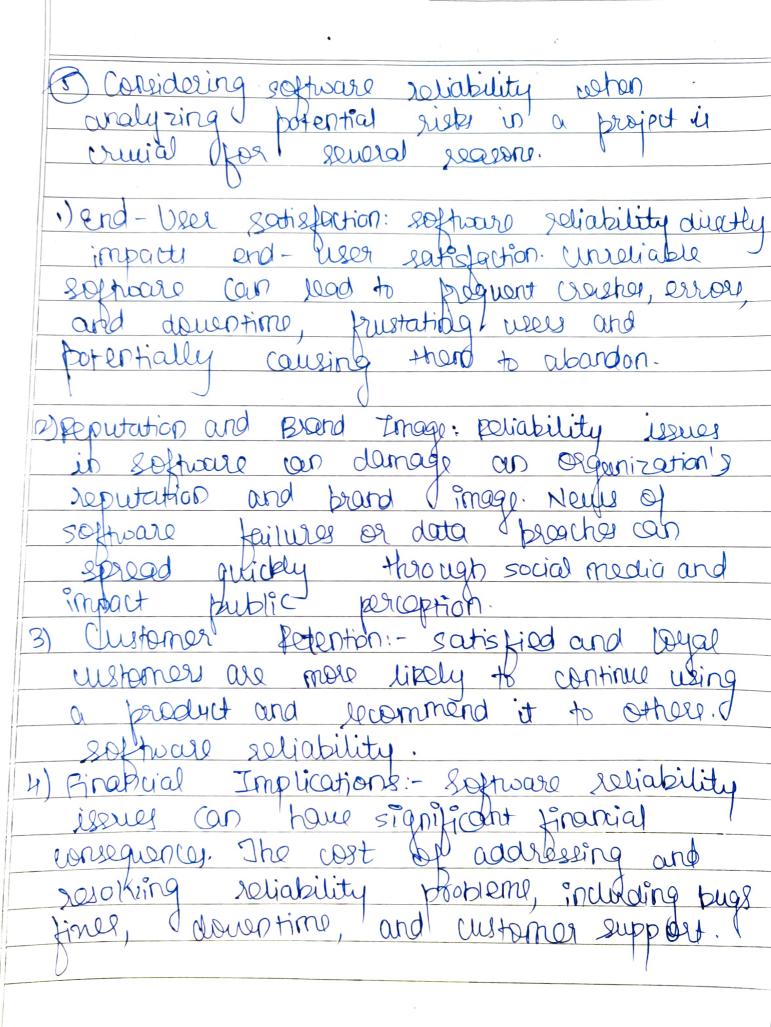
members well in advance of the walkthrough.

(3) setting the Agarda:

- Define the labour and objectives of the review, including what aspects to focus on 129 corrections, ampilance with standards, performance, security)

A penilo Meeting:

- youther all participants for services meeting, either in pleason or through a withal collabration problem. - The moderator includes the agenda, emplains the purpose of the services, and soul the ground seules for the meeting, including time Virnite for sauch phase of the sewilw.



Operational Efficiency: Unraiable software can airrupt buisnoss operations. Ushon software pails or experience proquent issues. it can be brown in demontance, bulays, and increased support and maintenance exports. These dissuptions can reduce operational efficience and increase operational costs.