

SE Assignment 2

Q1) What is risk assessment in context of software projects and why is it 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.

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

ii) Resource Allocation

iii) Budget and Schedule Control:

Q2) Software configuration management (SCM) is a set of practices and processes that helps control, track and manage changes to software throughout its development life cycle.

i) Version Control

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

ii) Configuration Identification

SCM helps in identifying and defining software configurations.

iii) Change Management

iv) Build Management

Q3) i) Defect Detection and Correction:

FTR's involve a group of reviewers who systematically examine the software artifacts in detail. The process is highly effective.

ii) Knowledge Sharing:

FTR's 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.

Q4) Verification of Requirements:

FTR's help to ensure that the software requirements by systematically examining the design and code against requirements.

i) Preparation:

Identify the artifacts to be reviewed. Ensure its complete and ready for review.

ii) Distribution of Materials

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

iii) Setting the Agenda:

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