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SE Assignment-2

Rish assessment in the context of software project is the process of identifying analyzing & prioritizing potential risks and uncertanities that could affect the successful completion of a software development project. These risk can range from fechnical issue and account constraints to change in project requirements, market condition and external factors. The primary goal of risk assessment is to protectively manage and migrate this risks to ensure the project objectives are met. Following are key reasons as to why risk assessment is essential in software project.

- 1) Early problem identification-spot problems before they escalate
- 2) Essicient resume allocation
- 3) Cost watol
- 4) Schedule management
- 5) Quality asswance
- 6) Reputation management protect organization's image and avoid legal issue by managing nisk.
- 9) state holder communication Kups client management
- & team informed about potential challinges to set realistic expression
- 8) increase project success rate- projects that manage risks effectively have a better chance of success.

Software configuration management (scm) is a set of practise & process used to systematically, control, organize and track changes in software projects. Its primary role is to ensure the integrity Stability and quality of a sophrace system throughout i'll developement lese après neus how sem consibures to project quality.

1) Vernion control: Som manager and track different vernion of rollwares.

2) Change management: organizes changes, ensuring through kining and documentation.

3) Traceability: Scm links changes to specific requirements, enhancing understanding and meeting requirement.

4) configuration management it conhols all software components. preventing contiguiation - release error in each release.

5) Paraller development-som allows multiple developer to work courrently

6) Auromated Build and Deployment - Error tree so house

9) Backup and recovery - Scm provides backup and recovery.

1) Audining and compliance - Tracks changes for auditing and regulatory compliance.

-> Formal technical reviews (FTR) au njstematic, well structured process 03 Por reviewing and evaluating various aspects of software develop ment, such au requirement, d'esign, code and documention FTR plays a crucial vole in ensuring software quality and reliability through toll mechanism.

1) Error detection and prevention: FTR: catch and prevent comos

2) Knowledge shaning: Team collaboration enhance understanding 3) Compilance: Ensure adherence to cooling and design standard

4) Requirement validation: Veuities dear and complete requirements

5) Risk Minigarion: Address Ponknihal issue before may escalate. Il " Impourement.

consistency - Enforces clear documentation and communication 7) Quality improvement - Feedback loop lead to ongoing improvement 8) Enhanced process - Structured reviews cover all espects. 841 A formal walkmrough in me context of a software project is a smuchired and systematic process of recieving / reviewing and evaluating so home aitifacts such as code, design downers, or requirements. The primary goal is to identify issues, ensure quality and improve overall project. The toth is sup by sup process for conducting a formal walkthrough 1) Preparation - Preparing the achitack & assembling a review on team. 2) Scheduling - sechudling a meening and settling an agenda 3) Conducting the walkthrough - conducting a structured review where team members discuss and document issues 4) Resolution Resolving issues and assigning responsibilities or improvement 5) Documentation - Documenting the review 6) Follow-up: After the review, blow up on the assigned achion 7) Closure; Closing the review process once all isrue are addresed 8) Feedback and continous improvement: elathering feedbac

for improvement.

05 -- Considering software actionibility is crucial when analyzing jokenhal nisk in all project for kveial reasons.

a) User Expectation - User except software to be reliable

Ensure sophoace meets use expectations.

b) Bussiners Impact - soprouve failures can have significant financial implications. Prevent Jinancial Losses and extra cost

je) Reputation - safeguard the organization image.

2) d) maintenance cost-Reducing long-turn support expenses

salary cultical application. Avoid catastrophic consequences

f) legulatory compilance: Ensure adherence to industry regulations.

19) Perta Integrity- Protect data from comption or less.

h) market Compen'n'on - stay compen'n've with reliable roftware i) Customer san's taction - Enhance user expenience and Coyalty

success crinical sor nuccessful project outromes. 9 13 Project