QUIZ: 04

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In software engineering, software configuration management (SCM) in the tank of tracking and controlling changes in the northware. SCM practices include revision control and the entablishment of baselines. In configuration management, a baneline in an agreed discription of the attributes of a product, of a point in time, which serves as a basis for defining change. SCM items that compresse all information produced as part of the northware development process. The preimary goals of SCM are to control and track changes to nottware assets, ensure the integrity and comintency of those assets and facilitate callaboration among team memberen working on the software project. SOM encompasses various activities including version control, build management, release management and configuration management. Here are some key aspects of Software Configuration Management -

·Version Control: Version control in the process of managing changes to source code and other software assets over time.

·Build Management; Build management involver automating the process of compiling source code, resolving dependencies and producing executable software artifacts.

·Release Management Release Management focuses on planning, coordinating and deploying software releases.

· Configuration Management: Configuration management involves managing the configuration of software system including their tandware, software and documentation components.

· Ctange Management: Charge Management involves controlling and tracking changes to software assets including source code, configuration files and documentation.

·Branching and Menging: 4+ are used to manage parcallel lines of development in version control systems.

Effective Software Configuration Maragement in ensential for emuring the quality, reliability and maintainability of software systems particularly in large and complex development environments with multiple contributors and trequent changes.

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A database that acts as the center for both accumulation and storage of software engineering information. The SCM repriory is the set of mechanisms and data structures that allow a software team to manage change in an effective manner.

The contents of a Software Configuration
Management (SCM) repositiony can very depending
on the specific project and the SCM tool being
wed. However, typically an SCM repositiony
contains—

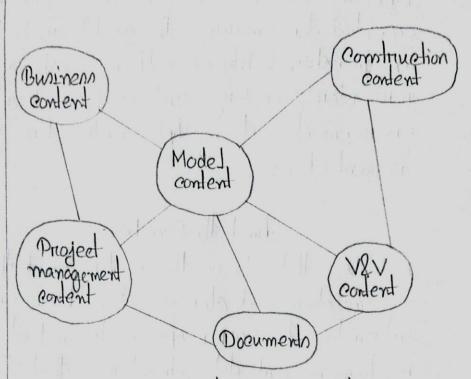


Figure & Content of SCM Repository

Model content: This content criteria are we cones, analysis model, design model and technical metries. Analysis model diagrams are scenario-based, flow-oriented, class-based, behavioral diagrams. Design model diagrams are architectural, intereface, component-level diagrams.

· Construction content: This content cristeria are source code, object code, system build instruction ·VIV content & Thin content orideria are tent conen, tent periph, tent repulto, quality metricon. ·Documents: This content criteria are project plan, SOM/SOA plan, system spec, neguinements spec, design document, test plan and priocedure, support documents, were manual

·Project-management content: This content criteria are project estimates, project reledule. SOM requirements, change requests, change reports SQA requirements, project reports/audit reports,

project metrcies.

· Business content: This content cruteria are business rules, business functions, organization Atriudure, information architecture.

The primary content of most som repositories in the sounce code of the software project. This includes all the files and directories necessary to build and run the nottware. SOM maintain metadata about changes madeto the source code overtime. Configuration files recessary for building, testing and deploying the software may be storced in the regularly. Documentation related to the project suck as design documents, user manuals, release notes may be storted along side the source codein the repositiony. Sorcipts used to automate the build process, run tests and penform other tosus related to building and deploying the software may be included in the repository.

There are some common condends but the specific contends of ansem repositiony can vary widely depending on tactors such as the size and complexity of the project, the development workflow and the preferences of the development development team.

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