Software Engineering

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Introduction Introduction to Software Engineering, Software components, Software characteristics, Software crisis, Software engineering processes, Similarity and differences from conventional engineering processes, Software quality attributes. Software Development Life Cycle (SDLC) Models : Water fall model, Prototype model, Spiral model, Evolutionary development models, Iterative enhancement models. Software Requirement Specifications (SRS) Requirement Engineering Process : Elicitation, Analysis, Documentation, Review and management of user needs, Feasibility study, Information modelling, Data flow diagrams, Entity relationship diagrams, Decision tables, SRS document, IEEE standards for SRS. Software Quality Assurance (SQA) : Verification and validation, SQA plans, Software quality frameworks, ISO 9000 models, SEI-CMM model. Software Design Basic concept of software design, Architectural design, Low level design : Modularization, Design structure charts, Pseudo codes, Flowcharts, Coupling and cohesion measures, Design strategies : Function oriented design, Object oriented design, Top-down and bottom-up design. Software measurement and metrics : Various size oriented measures : Halestead's software science, Function Point (FP) based measures, Cyclomatic complexity measures : Control flow graphs. Software Testing Testing objectives, Unit testing, Integration testing, Acceptance testing, Regression testing, Testing for functionality and testing for performance, Top-down and bottom-up testing strategies : Test drivers and test stubs, Structural testing (White box testing), Functional testing (Black box testing), Test data suit preparation, Alpha and Beta testing of products. Static Testing Strategies : Formal technical reviews (Peer reviews), Walk through, Code inspection, Compliance with design and coding standards. Software Maintenance and Software Project Management Software as an evolutionary entity, Need for maintenance, Categories of maintenance : Preventive, Corrective and perfective maintenance, Cost of maintenance, Software re-engineering, Reverse engineering. Software configuration management activities, Change control process, Software version control, An overview of CASE tools. Estimation of various parameters such as Cost, Efforts, Schedule/Duration, Constructive Cost Models (COCOMO), Resource allocation models, Software risk analysis and management.

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