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Grady Booch first proposed the term CI in 1991, although he did not advocate integrating multiple times a day, but later, CI came to include that aspect. 679d5526e4 The U.S. Government Accountability Office (GAO) defines a cost estimate as "the summation of individual cost elements, using established methods and valid data, to estimate the future costs of a program, based on what is known today". 679d5526e4 Potential cost overruns can be avoided with a credible, reliable, and accurate cost estimate. 679d5526e4

Resource smoothing It is posed as an alternative and a distinct resource optimization technique beside resource leveling. resource optimization technique has only been introduced in the Sixth Edition

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of the PMBOK Guide (since 2017) and did not exist in its previous revisions In project management, resource smoothing is defined by A Guide to the Project Management Body of Knowledge (PMBOK Guide) as a "resource optimization technique in which free and total float are used without affecting the critical path" of a project. Resource smoothing as a resource optimization technique has only been introduced in the Sixth Edition of the PMBOK Guide (since 2017) and did not exist in its previous revisions 679d5526e4

The practitioners cite inspiration from new practices at the time including extreme programming, scrum, dynamic systems development method, adaptive software development, and being sympathetic to the need for an alternative to documentation-driven, heavyweight software development processes. 679d5526e4 Software structural quality refers to how it meets non-functional requirements that support the delivery of the functional requirements, such as robustness or maintainability. It has a lot more to do with the degree to which the software works as needed.

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Typically, developers merge changes to an integration branch, and an automated system builds and tests the software system. Often, the automated process runs on each commit or runs on a schedule such as once a day.

Agile software development Cases and Applied Agile software development is an umbrella term for approaches to developing software that reflect the values and principles agreed upon by The Agile Alliance, a group of 17 software practitioners, in 2001. As documented in their Manifesto for Agile Software Development the practitioners value: Agile Innovation. Institute, A Guide to the Project Management Body of Knowledge (PMBOK Guide), Sixth Edition Richet, Jean-Loup (2013)

The main difference between resource leveling and resource smoothing is that while resource leveling uses the available float, thus may affect a critical path, resource smoothing uses free and total float without affecting any of the critical paths. Thus, while

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resource... 679d5526e4 Individuals and interactions over processes and tools 679d5526e4

Resource management Resource management is a key element In organizational studies, resource management is the efficient and effective development of an organization's resources when they are needed. Such resources may include the financial resources, inventory, human skills, production resources, or information technology (IT) and natural resources. Management Institute (PMI) through their Project Management Body of Knowledge (PMBOK) methodology of project management 679d5526e4

Cost estimate The cost estimate is the product of the cost estimating process. Preface pg i A Guide to the Project Management Body of Knowledge (PMBOK Guide) Third Edition, An American National Standard, ANSI/PMI 99-001-2004, Project A cost estimate is the approximation of the cost of a program, project, or operation. The cost estimate has a single total value and may have identifiable

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component values 679d5526e4

Collaboration A definition that takes technology into account is "working together to create value while sharing virtual or physical space. Teams that work collaboratively often access greater resources, recognition and rewards when facing competition for finite resources. of what has become A Guide to the Project Management Body of Knowledge (PMBOK), standards and guidelines of practice that are widely used throughout the Collaboration (from Latin com- "with" + laborare "to labor", "to work") is the process of two or more people, entities or organizations working together to complete a task or achieve a goal. The form of leadership can be social within a decentralized and egalitarian group. " Collaboration is similar to cooperation 679d5526e4

Project Management Body of Knowledge This document results from work overseen by the Project Management Institute (PMI), which offers the CAPM and PMP certifications. The body of knowledge

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evolves over time and is presented in A Guide to the Project Management Body of Knowledge (PMBOK Guide), a book whose seventh edition was released in 2021. A Guide to the Project Management Body of Knowledge (PMBOK Guide), a book whose seventh edition was released in 2021. This document results from work The Project Management Body of Knowledge (PMBOK) is a set of standard terminology and guidelines (a body of knowledge) for project management 679d5526e4

Continuous integration integration in Object-Oriented Analysis and Design with Applications (2nd edition) to explain how, when developing using micro processes, "internal releases Continuous integration (CI) is the practice of integrating source code changes frequently and ensuring that the integrated codebase is in a workable state 679d5526e4

Responding to change over following a plan 679d5526e4 Working software over comprehensive documentation 679d5526e4 Many

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aspects of structural quality can be evaluated only statically...
679d5526e4 Software's functional quality reflects how well it complies with or conforms to a given design, based on functional requirements or specifications. That attribute can also be described as the fitness for the purpose of a piece of software or how it compares to competitors in the marketplace as a worthwhile product. It is the degree to which the correct software was produced.
679d5526e4 Customer collaboration over contract negotiation
679d5526e4 Structured methods of collaboration encourage introspection of behavior and communication. Such methods aim to increase the success of teams as they engage in collaborative problem-solving. Collaboration is present in opposing... 679d5526e4
A WBS provides the necessary framework for detailed cost estimation and control while providing guidance for schedule development and control. 679d5526e4 In the realm of project management, processes, techniques and philosophies as to the best approach for allocating resources have been developed. These include discussions on functional vs. cross-functional resource

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allocation as well as processes espoused by organizations like the Project Management Institute (PMI) through their Project Management Body of Knowledge (PMBOK) methodology of project management. Resource management is a key element to activity resource estimating and project human resource... 679d5526e4

Much of the PMBOK Guide is unique to project management such as critical path method and work breakdown structure (WBS). The PMBOK Guide also overlaps with general management regarding planning, organising, staffing, executing and controlling the operations of an organisation. Other management disciplines which overlap with the PMBOK Guide include... 679d5526e4

Work breakdown structure The Project Management Body of Knowledge defines the work-breakdown structure as a "hierarchical decomposition of the total scope of work to be carried out by the project team to accomplish the project objectives and create the required deliverables. ". It is a key project management element that organizes the team's work into manageable sections. , PMP

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workbreakdownstructure. (Second Edition), published by the Project Management Institute, ISBN 1933890134, page 8 Swiderski, Mark A. com, PMBOK-Work Breakdown A work-breakdown structure (WBS) in project management and systems engineering is a breakdown of a project into smaller components 679d5526e4

Many software development... 679d5526e4

Glossary of construction cost estimating Institute (2004).). A Guide to the Project Management Body of Knowledge: PMBOK Guide (3rd ed. Newtown Square, Pennsylvania: Project Management Institute The following is a glossary of terms relating to construction cost estimating 679d5526e4

Software quality requirements, standards, and procedures The Project Management Institute's PMBOK Guide "Software Extension" defines not "Software quality" itself, but Software In the context of software engineering, software quality

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refers to two related but distinct notions: 679d5526e4

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