Software Documentation Standards

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HUD ADP Documentation Standards Artech House on Demand
Computer software, Computer technology, Data processing, Technical documents, Documents, Management, Policy, Planning, Management operations

Category, Software : Subcategory, Documentation

Software Documentation StandardsICAM Software Documentation StandardsNASA Software Documentation Standard

The Software Management and Assurance Program (SMAP) Information System Life-Cycle and Documentation Standards Document describes the Version 4 standard information system life-cycle in terms of processes, products, and reviews. The description of the products includes detailed documentation standards. The standards in this document set can be applied to the life-cycle, i.e., to each phase in the system's development, and to the documentation of all NASA information systems. This provides consistency across the agency as well as visibility into the completeness of the information recorded. An information system is software-intensive, but consists of any combination of software, hardware, and operational procedures required to process, store, or transmit data. This document defines a standard life-cycle model and content for associated documentation. Callender, E. David and Steinbacher, Jody Unspecified Center DEVELOPMENT; DOCUMENTATION; INFORMATION SYSTEMS; QUALITY CONTROL; STANDARDS; SYSTEMS MANAGEMENT; SOFTWARE ENGINEERING; SYSTEMS ENGINEERING...

NBS Special Publication Pearson Education

This book addresses how to meet the specific documentation requirements in support of the ISO 9001 software process definition, documentation, and improvement, which is an integral part of every software engineering effort Provides a set of templates that support the documentation required for basic software project control and management The book provides specific support for organizations that are pursuing software process improvement efforts

New York : Petrocelli Books

Software Documentation StandardsICAM Software Documentation StandardsNASA Software Documentation StandardIndependently Published

Views and Beyond Wiley-IEEE Computer Society Press

Use an Approach Inspired by Domain-Driven Design to Build Documentation That Evolves to Maximize Value Throughout Your Development Lifecycle Software documentation can come to life, stay dynamic, and actually help you build better software. Writing for developers, coding architects, and other software professionals, Living Documentation shows how to create documentation that evolves throughout your entire design and development lifecycle. Through patterns, clarifying illustrations, and concrete examples, Cyrille Martraire demonstrates how to use well-crafted artifacts and automation to dramatically improve the value of documentation at minimal extra cost. Whatever your domain, language, or technologies, you don't have to choose between working software and comprehensive, high-quality documentation: you can have both. · Extract and augment available knowledge, and make it useful through living curation · Automate the creation of documentation and diagrams that evolve as knowledge changes · Use development tools to refactor documentation · Leverage documentation to improve software designs · Introduce living documentation to new and legacy environments

Documentation Standards O'Reilly Media

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IEEE Standard for Software Test Documentation Createspace Independent Publishing Platform

Excerpt from Federal Information Processing Standards Publication, 1984 June 6: Guideline for Software Documentation Management; Fips Pub 105 Name of Guideline: Guideline for Software Documentation Management (fips pub Category of Guideline: Software, Documentation. Explanation: This Guideline provides explicit advice on managing the planning, development, and pro duction of computer software documentation. Approving Authority: us. Department of Commerce, National Bureau of Standards (institute for Computer Sciences and Technology). Maintenance Authority: us. Department of Commerce, National Bureau of Standards (institute for Com puter Sciences and Technology). Applicability: This Guideline is a basic reference for Federal personnel concerned with development, mainte nance, enhancement, control, and management of computer-based systems. The document should be used along with other applicable guides, standards, and references. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Principles, Guidelines, and Best Practices Wiley-IEEE Computer Society Press

Background to data processing documentation. Documentation in a working environment. Components of development documentation. Analytical documentation.

Systems documentation. Program documentation; Operations documentation; User and management aids. Special techniques. Recording complex logic. Software documentation aids. Documentation of software packages. Control of documentation. Development documentation and project control.The documentation library and documentation maintenance. Development of documentation standards.

Information Technology. Guidelines for the Management of Software Documentation 5starcooks

Excerpt from Icam Software Documentation Standards: Final Report, February 1980 In October of 1977 the National Bureau of Standards agreed with the Air Force Wright Aeronautical Laboratories to develop documentation standards for the Integrated computer-aided Manufacturing (icam) Program. Under mipe py1457-77-02054 nbs's Institute for Computer Sciences and Technology undertook and completed this project. The docu mentation standards included in this final report - nbsir 79-1940 (air Force) (r) - have given nbs the opportunity to adapt and substantially extend Federal Information Process ing Standards Publications 30, 38, and 6a; moreover, they provide the icam Program with the means of ensuring high quality software products. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

EPA Minicomputer Software Documentation and Programming Standards John Wiley & Sons

The objective of Project 90A012 was to develop standards and specifications for NAVCOSSACT programming documentation that would be generally applicable to all NAVCOSSACT projects. The standards were to be sufficiently broad, yet detailed enough to be applicable to programming documentation requirements of any NAVCOSSACT software system. The specifications for the various kinds of programming documents were to be derived from, and were to reference, the documentation standards, thereby enabling a consistency of documentation throughout all NAVCOSSACT projects. A hierarchy of documentation was to be established that would provide a logical relationship among documents and would permit sufficient flexibility for appropriately covering all types of software systems. The conclusions in the Report indicate that the program employed was effective for this type of project and the objectives were achieved as embodied in the Appendix.

NBS (National Bureau of Standards) - FIPS (Federal Information Processing Standards) Software Documentation Lulu.com

The NASA Software Documentation Standard (hereinafter referred to as "Standard") is designed to support the documentation of all software developed for NASA; its goal is to provide a framework and model for recording the essential information needed throughout the development life cycle and maintenance of a software system. The NASA Software Documentation Standard can be applied to the documentation of all NASA software. The Standard is limited to documentation format and content requirements. It does not mandate specific management, engineering, or assurance standards or techniques. This Standard defines the format and content of documentation for software acquisition, development, and sustaining engineering. Format requirements address where information shall be recorded and content requirements address what information shall be recorded. This Standard provides a framework to allow consistency of documentation across NASA and visibility into the completeness of project documentation. The basic framework consists of four major sections (or volumes). The Management Plan contains all planning and business aspects of a software project, including engineering and assurance planning. The Product Specification contains all technical engineering information, including software requirements and design. The Assurance and Test Procedures contains all technical assurance information, including Test, Quality Assurance (QA), and Verification and Validation (V&V). The Management, Engineering, and Assurance Reports is the library and/or listing of all project reports. NASA-STD-2100-91, NAS 1.82:2100-91 ...

Software Documentation Standards Addison-Wesley Professional

Are there any easy-to-implement alternatives to Software test documentation? Sometimes other solutions are available that do not require the cost implications of a full-blown project? Does Software test documentation create potential expectations in other areas that need to be recognized and considered? Has the direction changed at all during the course of Software test documentation? If so, when did it change and why? What are the short and long-term Software test documentation goals? Are we making progress? and are we making progress as Software test documentation leaders? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Software test documentation investments work better. This Software test documentation All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Software test documentation Self-Assessment. Featuring 718 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Software test documentation improvements can be made. In using the questions you will be better able to: - diagnose Software test documentation projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Software test documentation and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Software test documentation Scorecard, you will develop a clear picture of which Software test documentation areas need attention. Your purchase includes access details to the Software test documentation self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

1063-2001 IEEE Standard for Software User Documentation Independently Published
Today, software engineers need to know not only how to program effectively but also how to develop proper engineering practices to make their codebase sustainable and healthy. This book emphasizes this difference between programming and software engineering. How can software engineers manage a living codebase that evolves and responds to changing requirements and demands over the length of its life? Based on their experience at Google, software engineers Titus Winters and Hyrum Wright, along with technical writer Tom Manshreck, present a candid and insightful look at how some of the world ' s leading practitioners construct and maintain software. This book covers Google ' s unique engineering culture, processes, and tools and how these aspects contribute to the effectiveness of an engineering organization. You ' ll explore three fundamental principles that software organizations should keep in mind when designing, architecting, writing, and maintaining code: How time affects the sustainability of software and how to make your code resilient over time How scale affects the viability of software practices within an engineering organization What trade-offs a typical engineer needs to make when evaluating design and development decisions
1063-1987 IEEE Standard for Software User Documentation Digital Press
At Los Alamos National Laboratory a small staff of writers and word processors in the Computer Documentation Group is responsible for producing computer documentation for the over 8000 users of the Laboratory's computer network. The -mdoc macro package was developed as a software tool to support that effort. The -mdoc macro package is used with the NROFF/TROFF document preparation system on the UNIX operating system. The -mdoc macro package incorporates the standards for computer documentation at Los Alamos that were established by the writers. Use of the -mdoc macro package has freed the staff of programming format details, allowing writers to concentrate on content of documents and word processors to produce documents in a timely manner. It is an easy-to-use software tool that adapts to changing skills, needs, and technology. 5 refs.
1063-2001 IEEE Standard for Software User Documentation Forgotten Books
Software architecture—the conceptual glue that holds every phase of a project together for its many stakeholders—is widely recognized as a critical element in modern software development. Practitioners have increasingly discovered that close attention to a software system ' s architecture pays valuable dividends. Without an architecture that is appropriate for the problem being solved, a project will stumble along or, most likely, fail. Even with a superb architecture, if that architecture is not well understood or well communicated the project is unlikely to succeed. Documenting Software Architectures, Second Edition, provides the most complete and current guidance, independent of language or notation, on how to capture an architecture in a commonly understandable form. Drawing on their extensive experience, the authors first help you decide what information to document, and then, with guidelines and examples (in various notations, including UML), show you how to express an architecture so that others can successfully build, use, and maintain a system from it. The book features rules for sound documentation, the goals and strategies of documentation, architectural views and styles, documentation for software interfaces and software behavior, and templates for capturing and organizing information to generate a coherent package. New and improved in this second edition: Coverage of architectural styles such as service-oriented architectures, multi-tier architectures, and data models Guidance for documentation in an Agile development environment Deeper treatment of documentation of rationale, reflecting best industrial practices Improved templates, reflecting years of use and feedback, and more documentation layout options A new, comprehensive example (available online), featuring documentation of a Web-based service-oriented system Reference guides for three important architecture documentation languages: UML, AADL, and SySML
Study of Programming Documentation Standards and Specifications
This volume is one in a series of Sandia Software Guidelines intended for use in producing quality software within Sandia National Laboratories. In consonance with the IEEE Standards for software documentation, this volume provides guidance in the selection of an adequate document set for a software project and example formats for many types of software documentation. A tutorial on life cycle documentation is also provided. Extended document thematic outlines and working examples of software documents are available on electronic media as an extension of this volume.
Management Guide for Software Documentation
This directory presents an overview of 300 software development standards, guides, and technical reports. The book contains extensive information on all the existing standards, what they contain, how they are used, when to apply them, and where to obtain copies.
Standardized development of computer software
The Art of Technical Documentation presents concepts, techniques, and practices in order to produce effective technical documentation. The book provides the definition of technical documentation; qualities of a good technical documentation; career paths and documentation management styles; precepts of technical documentation; practices for gathering information, understanding what you have gathered, and methods for testing documentation; and considerations of information representation, to provide insights on how different representations affect reader perception of your documents. Technical writers and scientists will find the book a good reference material.
Software Engineering Program
Software process definition, documentation, and improvement should be an integral part of every software engineering organization. This book addresses the specific documentation requirements in support of the CMMI-SW ® by providing detailed documentation guidance in the form of: Detailed organizational policy examples. An Integrated set of over 20 deployable document templates. Examples of over 50 common work products required in support of assessment activities. Examples of organizational delineation of process documentation. This book provides a set of IEEE Software Engineering Standards-based templates that support the documentation required for all activities associated with software development projects. The goal is to provide practical support for individuals responsible for the development and documentation of software processes and procedures. The objective is to present the reader with an integrated set of documents that support the requirements of the CMMI-SW ® Levels 2 and 3. This book is meant to both complement and extend the information provided in Jumpstart CMM ® /CMMI ® Software Process Improvement Using IEEE Software Engineering Standards. Jumpstart provides a detailed mapping of both the CMM ® and the CMMI-SW ® to the IEEE standards set and provides a logical basis for the material contained within this text. It is hoped that this book will provide specific support for organizations pursuing software process definition

and improvement. For organizations that do not wish to pursue CMMI ® accreditation, this document will show how the application of IEEE Standards can facilitate the development of sound software engineering practices. It also comes with a CD-Rom.

Lessons Learned from Programming Over Time

SUPERB EXECUTION RELIES UPON RIGOROUS PROJECT DOCUMENTATION A project will only be built as well as it is documented. This publication focuses on the key documentation needs of the landscape architectural design and construction documentation process. That includes both "design documentation" and "construction documentation" as well as all that which occurs in the transition from one phase to the other. Documentation requirements include those components necessary to explore and define design intent, logic, physical proposals, and ultimately, the specific components included within construction and bid documents. Discover how proper documentation facilitates every stage of the design process from pre-planning to construction, and leads to a highly resolved built outcome. Understand the principles behind these documentation practices. Implement best practices specific to each documentation phase and drawing, from title block and cover sheet design to soil plans and plant protection. Organize keynoting systems, cross-referencing and interdisciplinary coordination amongst multiple consultants and vendors. Study sample project documents from a leading landscape architecture firm to better understand the elements and benefits of complete and well-coordinated project documentation. These standards have been time-tested by over 150 designers at the industry leading landscape architecture firm Design Workshop, reflecting a range of project types, including parks, streetscapes, urban spaces and over-structure construction. This guide shares the methods behind the success, to facilitate exceptional built outcomes through principled documentation practices.