

Software Engineering Process *with the UPEDU*

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with Patrick d'Astous

This book presents
a general introduction to
software process.
It includes supporting
examples and case studies
that rely on the
Unified Process for
Education (UPEDU),
a process derived from the
Rational Unified Process.



Software Engineering Processes With The Upedu

Philippe Kruchten



Software Engineering Processes With The Upedu:

Software Engineering Process with the UPEDU Pierre N. Robillard, Patrick D'Astous, Philippe Kruchten, 2003 This book provides a general introduction to the essentials of the software development process that series of activities that facilitate developing better software in less time It starts with the basic aspects of software process which are the methods tools and the concepts of the software life cycle The second and third parts emphasize the engineering and management disciplines that are the core of any software engineering process The fourth part which is concerned with the quality aspects of software process presents the aspects of process assessment and measurement The last chapter introduces a software process metamodel which is the theoretical foundation for any software process The approach is general and the explanations are not tied to a particular commercial process The book includes an ongoing case study example which does use the Unified Process for Education which is derived from The Rational Unified Process This book thus enables readers to gain experience with some of the basics of the Rational Unified Process the industry s most powerful tool for incorporating the best practices into software development and prepares them to work with any organization s software process The book includes a robust Website with all the sample deliverables and artifacts created from the case study as well as chapter by chapter sections with further up to date readings on process advancements the PDF files for all the figures in the book links to Software Engineering news sites chapter by chapter information on commercial tools industry standards etc

Making Globally Distributed Software Development a Success Story Qing Wang, Dietmar Pfahl, David Raffo, 2008-04-29 This book constitutes the refereed proceedings of the Second International Conference on Software Process held in Leipzig Germany in May 2008 colocated with ICSE 2008 the 30th International Conference on Software Engineering The 33 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 106 submissions The papers are organized in topical sections on process content process tools and metrics process management process representation analysis and modeling experience report and simulation modeling

The Rational Unified Process Made Easy Per Kroll, Philippe Kruchten, 2003-04-08 Per Kroll and Philippe Kruchten are especially well suited to explain the RUP because they have been the central forces inside Rational Software behind the creation of the RUP and its delivery to projects around the world From the Foreword by Grady Booch This book is a comprehensive guide to modern software development practices as embodied in the Rational Unified Process or RUP With the help of this book s practical advice and insight software practitioners will learn how to tackle challenging development projects small and large using an iterative and risk driven development approach with a proven track record The Rational Unified Process Made Easy will teach you the key points involved in planning and managing iterative projects the fundamentals of component design and software architecture and the proper employment of use cases All team members from project managers to analysts from developers to testers will learn how to immediately apply the RUP to their work You will learn that the RUP is a flexible versatile process framework

that can be tailored to suit the needs of development projects of all types and sizes Key topics covered include How to use the RUP to develop iteratively adopt an architecture centric approach mitigate risk and verify software quality Tasks associated with the four phases of the RUP Inception Elaboration Construction and Transition Roles and responsibilities of project managers architects analysts developers testers and process engineers in a RUP project Incrementally adopting the RUP with minimal risk Common patterns for failure with the RUP and how to avoid them Use this book to get quickly up to speed with the RUP so you can easily employ the significant power of this process to increase the productivity of your team **The Rational Unified Process** Philippe Kruchten, 2004 bull Reflects all of the changes that were integrated into RUP v2003 the latest version of the very popular product bull Learn the key concepts fundamentals of structure integral content and motivation behind the RUP bull Covers all phases of the software development lifecycle from concept to delivery to revision

Human-Centered Software Engineering Ahmed Seffah, Jean Vanderdonckt, Michel C. Desmarais, 2009-06-19 Activity theory is a way of describing and characterizing the structure of human activity of all kinds First introduced by Russian psychologists Rubinshtein Leontiev and Vigotsky in the early part of the last century activity theory has more recently gained increasing attention among interaction designers and others in the human computer interaction and usability communities see for example Gay and H Brooke 2004 Interest was given a significant boost when Donald Norman suggested activity theory and activity centered design as antidotes to some of the putative ills of human centered design Norman 2005 Norman who has been credited with coining the phrase user centered design suggested that too much attention focused on human users may be harmful that to design better tools designers need to focus not so much on users as on the activities in which users are engaged and the tasks they seek to perform within those activities Although many researchers and practitioners claim to have used or been influenced by activity theory in their work see for example Nardi 1996 it is often difficult to trace precisely where or how the results have actually been shaped by activity theory In many cases even detailed case studies report results that seem only distantly related if at all to the use of activity theory Contributing to the lack of precise and traceable impact is that activity theory spite its name is not truly a formal and proper theory

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher **Industry Practices, Processes and Techniques Adopted in Education** Kathryn MacCallum, David Parsons, 2022-08-25 This book provides a single source of reference for educators interested in understanding how industry based ideas have been adapted into different educational contexts and supports their utilisation in practice The link between industry based ideas and their application in education has enabled educators to develop engaging collaborative and creative learning environments as well as better preparing

their students for an increasingly complex and dynamic global environment This book includes contributions from educators researchers and practitioners who have integrated industry based ideas into their teaching and explores how these concepts and practices support the creation of effective learning environments Through these diverse international contributions this book enables wider engagement with and critical analysis of the application of industry practices processes and techniques in the development of collaborative and creative learning environments

**Model-Driven Software Development:
Integrating Quality Assurance** Rech, Jörg, Bunse, Christian, 2008-08-31 Covers important concepts issues trends methodologies and technologies in quality assurance for model driven software development

The Software Development Edge Joe Marasco, 2005-04-13 The new software management classic in the trenches wisdom from legendary project leader Joe Marasco Over the course of a distinguished career Joe Marasco earned a reputation as the go to software project manager the one to call when you were facing a brutally tough make or break project Marasco reflected on his experiences in a remarkable series of Franklin s Kite essays for The Rational Edge Rational and IBM s online software development magazine Now Marasco collects and updates those essays bringing his unique insights and humor to everything from modeling to scheduling team dynamics to compensation The result a new classic that deserves a place alongside Frederick Brooks The Mythical Man Month in the library of every developer and software manager If you want to ship products you re proud of ship on time and on budget deliver real customer value you simply must read The Software Development Edge

Social, Managerial, and Organizational Dimensions of Enterprise Information Systems Cruz-Cunha, Maria Manuela, 2009-09-30 Discusses the technological developments main issues challenges opportunities and trends impacting every part of small to medium sized enterprises

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