

FREE EPUB FREE SOFTWARE ARCHITECTURE IN PRACTICE SECOND EDITION BASS PAUL CLEMENTS RICK KAZMAN (PDF)

SOFTWARE ARCHITECTURE IN PRACTICE () EVALUATING SOFTWARE ARCHITECTURES ()
CLEAN ARCHITECTURE ()
() SOFTWARE ARCHITECTURE IN PRACTICE ()
Vol.2 () 2 () SQUBOK GUIDE V2 ()
SOFTWARE PRODUCT-FAMILY ENGINEERING ADVANCED SOFTWARE ENGINEERING: EXPANDING THE FRONTIERS OF SOFTWARE TECHNOLOGY
SOFTWARE ARCHITECTURE FOUNDATION - 2ND EDITION DOCUMENTING SOFTWARE ARCHITECTURES HAGENBERG RESEARCH 100 ()
1 () SWEBOK V3.0 ()
IT! THE RATIONAL UNIFIED PROCESS MADE EASY THE CERT ORACLE SECURE CODING STANDARD FOR JAVA CODE COMPLETE SOFTWARE
SYSTEMS ARCHITECTURE HIERARCHICAL USER INTERFACE COMPONENT ARCHITECTURE PRACTICAL SOFTWARE FACTORIES IN .NET SOFTWARE
ARCHITECTURE ARCHITECTING WITH RM-ODP MODERNIZING LEGACY SYSTEMS THE PROCESS OF SOFTWARE ARCHITECTING ()
SOFTWARE ENGINEERING DESIGN MODELING AND SIMULATING SOFTWARE ARCHITECTURES SOFTWARE PRODUCT LINES

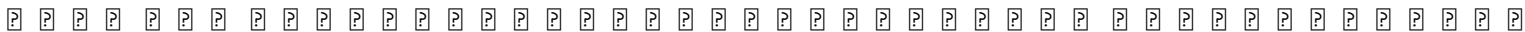
SOFTWARE ARCHITECTURE IN PRACTICE

2012-09-25

THE AWARD WINNING AND HIGHLY INFLUENTIAL SOFTWARE ARCHITECTURE IN PRACTICE THIRD EDITION HAS BEEN SUBSTANTIALLY REVISED TO REFLECT THE LATEST DEVELOPMENTS IN THE FIELD IN A REAL WORLD SETTING THE BOOK ONCE AGAIN INTRODUCES THE CONCEPTS AND BEST PRACTICES OF SOFTWARE ARCHITECTURE HOW A SOFTWARE SYSTEM IS STRUCTURED AND HOW THAT SYSTEM S ELEMENTS ARE MEANT TO INTERACT DISTINCT FROM THE DETAILS OF IMPLEMENTATION ALGORITHM AND DATA REPRESENTATION AN ARCHITECTURE HOLDS THE KEY TO ACHIEVING SYSTEM QUALITY IS A REUSABLE ASSET THAT CAN BE APPLIED TO SUBSEQUENT SYSTEMS AND IS CRUCIAL TO A SOFTWARE ORGANIZATION S BUSINESS STRATEGY THE AUTHORS HAVE STRUCTURED THIS EDITION AROUND THE CONCEPT OF ARCHITECTURE INFLUENCE CYCLES EACH CYCLE SHOWS HOW ARCHITECTURE INFLUENCES AND IS INFLUENCED BY A PARTICULAR CONTEXT IN WHICH ARCHITECTURE PLAYS A CRITICAL ROLE CONTEXTS INCLUDE TECHNICAL ENVIRONMENT THE LIFE CYCLE OF A PROJECT AN ORGANIZATION S BUSINESS PROFILE AND THE ARCHITECT S PROFESSIONAL PRACTICES THE AUTHORS ALSO HAVE GREATLY EXPANDED THEIR TREATMENT OF QUALITY ATTRIBUTES WHICH REMAIN CENTRAL TO THEIR ARCHITECTURE PHILOSOPHY WITH AN ENTIRE CHAPTER DEVOTED TO EACH ATTRIBUTE AND BROADENED THEIR TREATMENT OF ARCHITECTURAL PATTERNS IF YOU DESIGN DEVELOP OR MANAGE LARGE SOFTWARE SYSTEMS OR PLAN TO DO SO YOU WILL FIND THIS BOOK TO BE A VALUABLE RESOURCE FOR GETTING UP TO SPEED ON THE STATE OF THE ART TOTALLY NEW MATERIAL COVERS CONTEXTS OF SOFTWARE ARCHITECTURE TECHNICAL PROJECT BUSINESS AND PROFESSIONAL ARCHITECTURE COMPETENCE WHAT THIS MEANS BOTH FOR INDIVIDUALS AND ORGANIZATIONS THE ORIGINS OF BUSINESS GOALS AND HOW THIS AFFECTS ARCHITECTURE ARCHITECTURALLY SIGNIFICANT REQUIREMENTS AND HOW TO DETERMINE THEM ARCHITECTURE IN THE LIFE CYCLE INCLUDING GENERATE AND TEST AS A DESIGN PHILOSOPHY ARCHITECTURE CONFORMANCE DURING IMPLEMENTATION ARCHITECTURE AND TESTING AND ARCHITECTURE AND AGILE DEVELOPMENT ARCHITECTURE AND CURRENT TECHNOLOGIES SUCH AS THE CLOUD SOCIAL NETWORKS AND END USER DEVICES



2005-09



EVALUATING SOFTWARE ARCHITECTURES

2002

THE FOUNDATION OF ANY SOFTWARE SYSTEM IS ITS ARCHITECTURE USING THIS BOOK YOU CAN EVALUATE EVERY ASPECT OF ARCHITECTURE IN ADVANCE AT REMARKABLY LOW COST IDENTIFYING IMPROVEMENTS THAT CAN DRAMATICALLY IMPROVE ANY SYSTEM S PERFORMANCE SECURITY RELIABILITY AND MAINTAINABILITY AS THE PRACTICE OF SOFTWARE ARCHITECTURE HAS MATURED IT HAS BECOME POSSIBLE TO IDENTIFY CAUSAL CONNECTIONS BETWEEN ARCHITECTURAL DESIGN DECISIONS AND THE QUALITIES AND PROPERTIES THAT RESULT DOWNSTREAM IN THE SYSTEMS THAT FOLLOW FROM THEM THIS BOOK SHOWS HOW OFFERING STEP BY STEP GUIDANCE AS WELL AS DETAILED PRACTICAL EXAMPLES COMPLETE WITH SAMPLE ARTIFACTS REFLECTIVE OF THOSE THAT EVALUATORS WILL ENCOUNTER THE TECHNIQUES PRESENTED HERE ARE APPLICABLE NOT ONLY TO SOFTWARE ARCHITECTURES BUT ALSO TO SYSTEM ARCHITECTURES ENCOMPASSING COMPUTING HARDWARE NETWORKING EQUIPMENT AND OTHER ELEMENTS FOR ALL SOFTWARE ARCHITECTS SOFTWARE ENGINEERS DEVELOPERS IT MANAGERS AND OTHERS RESPONSIBLE FOR CREATING EVALUATING OR IMPLEMENTING SOFTWARE ARCHITECTURES

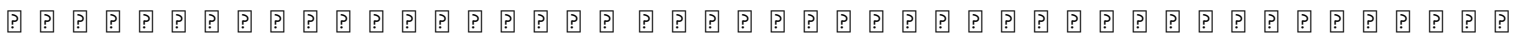


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2019-09



CLEAN ARCHITECTURE

2018-07-27



SOFTWARE ARCHITECTURE IN PRACTICE (3rd Edition)

2022-04-25

SOFTWARE ARCHITECTURE IN PRACTICE

GOTOP

SOFTWARE ARCHITECTURE IN PRACTICE

2003

THIS IS THE EAGERLY ANTICIPATED REVISION TO ONE OF THE SEMINAL BOOKS IN THE FIELD OF SOFTWARE ARCHITECTURE WHICH CLEARLY DEFINES AND EXPLAINS THE TOPIC

2012-12-25

2010-12-02

BOOCH HOW THE PROCESS OF SOFTWARE ARCHITECTING

IT Vol.3

2006

SQUBOK GUIDE V3 SNS

IT Vol.2

2006

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2014-11-28

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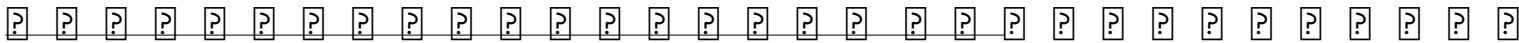
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2021-03-17

THIS BOOK CONTAINS THE PROCEEDINGS OF THE FOURTH INTERNATIONAL WORKSHOP ON PRODUCT FAMILY ENGINEERING PFE 4 HELD IN BILBAO SPAIN OCTOBER 3 5 2001 THIS WORKSHOP WAS THE FOURTH IN A SERIES STARTED IN 1996 WITH THE SAME SUBJECT SOFTWARE PRODUCT FAMILY ENGINEERING PROCEEDINGS OF THE SECOND AND THIRD WORKSHOPS HAVE BEEN PUBLISHED AS LNCS 1429 AND LNCS 1951 THE WORKSHOPS WERE ORGANIZED WITHIN CO OPERATION PROJECTS OF EUROPEAN INDUSTRY THE FIRST TWO BY ARES ESPRIT IV 20 477 1995 1999 THIS PROJECT HAD THREE INDUSTRIAL AND THREE ACADEMIC PARTNERS AND FOCUSED ON SOFTWARE ARCHITECTURES FOR PRODUCT FAMILIES SOME OF THE PARTNERS CONTINUED IN ITEA PROJECT 99005 ESAPS 1999 2001 ITEA IS THE SOFTWARE DEVELOPMENT PROGRAM 2023 WITHIN THE EUROPEAN EUREKA INITIATIVE ITEA PROJECTS LAST FOR TWO YEARS AND ESAPS WAS SUCCEEDED BY CAFE ITEA IP00004 WHICH STARTED IN 2001 AND WILL TERMINATE IN 2003 THIS WORKSHOP WAS INITIALLY PREPARED WITHIN ESAPS AND THE PREPARATION CONTINUED IN CAFE DUE TO THE ATTACKS IN THE USA OF SEPTEMBER 11 SEVERAL PEOPLE WERE NOT ABLE TO ATTEND AND THEREFORE DID NOT SHOW UP HOWEVER WE HAVE INCLUDED THEIR SUBMISSIONS IN THESE PROCEEDINGS THE SESSION CHAIR PRESENTED THESE SUBMISSIONS AND THEIR INPUTS WERE USED DURING THE DISCUSSIONS IT WAS PLANNED THAT HENK OBBINK BE WORKSHOP CHAIR AND LINDA NORTHROP AND SERGIO BANDINELLI BE CO CHAIRS HOWEVER BECAUSE OF PERSONAL CIRCUMSTANCES HENK OBBINK WAS NOT ABLE TO LEAVE HOME DURING THE WORKSHOP MOREOVER BOTH CO CHAIRS HAD ALREADY ENOUGH OTHER DUTIES THEREFORE THE CHAIRING DUTIES WERE TAKEN OVER BY THE PROGRAM CHAIR FRANK VAN DER LINDEN

SQUBOK GUIDE V3

2020-11-21

ON BEHALF OF THE ORGANIZING COMMITTEE FOR THIS EVENT WE ARE GLAD TO WELCOME YOU TO IWASE 2006 THE FIRST INTERNATIONAL WORKSHOP ON ADVANCED SOFTWARE ENGINEERING WE HOPE YOU WILL ENJOY THE TRADITIONAL CHILEAN HOSPITALITY AND OF COURSE PLEASE TELL US HOW WE CAN MAKE YOUR VISIT A PLEASANT AND USEFUL EXPERIENCE THE GOAL OF THIS WORKSHOP IS TO CREATE A NEW FORUM FOR RESEARCHERS PROFESSIONALS AND EDUCATORS TO DISCUSS ADVANCED SOFTWARE ENGINEERING TOPICS A DISTINCTIVE FEATURE OF THIS WORKSHOP IS ITS ATTEMPT TO FOSTER INTERACTIONS BETWEEN THE LATIN AMERICAN SOFTWARE ENGINEERING COMMUNITY AND COMPUTER SCIENTISTS AROUND THE WORLD THIS IS AN OPPORTUNITY TO DISCUSS WITH OTHER RESEARCHERS OR SIMPLY TO MEET NEW COLLEAGUES IWASE 2006 HAS BEEN ORGANIZED TO FACILITATE STRONG INTERACTIONS AMONG THOSE ATTENDING IT AND TO OFFER AMPLE TIME FOR DISCUSSING EACH PAPER IWASE 2006 ATTRACTED 28 SUBMISSIONS FROM 14 COUNTRIES 8 OF THEM OUTSIDE LATIN AMERICA EACH OF THE 28 ARTICLES WAS REVIEWED BY AT LEAST THREE MEMBERS OF THE PROGRAM COMMITTEE AS A RESULT OF THIS RIGOROUS REVIEWING PROCESS 13 PAPERS WERE ACCEPTED NINE FULL PAPERS AND FOUR WORK IN PROGRESS PAPERS THESE PAPERS WERE GROUPED IN FOUR TRACKS SOFTWARE ARCHITECTURE SOFTWARE MODELING SOFTWARE DEVELOPMENT PROCESS AND EXPERIENCES IN SOFTWARE DEVELOPMENT

SOFTWARE PRODUCT-FAMILY ENGINEERING

2003-07-31

THIS BOOK COVERS EVERYTHING YOU NEED TO MASTER THE ISAQB CERTIFIED PROFESSIONAL FOR SOFTWARE ARCHITECTURE FOUNDATION LEVEL CPSA F CERTIFICATION THIS INTERNATIONALLY RENOWNED EDUCATION AND CERTIFICATION SCHEMA DEFINES VARIOUS LEARNING PATHS FOR PRACTICAL SOFTWARE ARCHITECTS THIS BOOK CONCENTRATES ON THE FOUNDATION LEVEL EXAMINATION EXPLAINS THE CPSA F CURRICULUM IN VERSION 2023 COVERS EVERY LEARNING GOAL FOR BEST POSSIBLE EXAM PREPARATION DESCRIBES THE EXAMINATION PROCESS CONTAINS DOZENS OF SAMPLE EXAMINATION QUESTIONS CONTAINS AN EXTENSIVE GLOSSARY OF IMPORTANT TERMS

ADVANCED SOFTWARE ENGINEERING: EXPANDING THE FRONTIERS OF SOFTWARE TECHNOLOGY

2006-08-10

ARCHITECTURE IS CRUCIAL TO THE SUCCESS OF ANY LARGE SOFTWARE SYSTEM BUT EVEN A SUPERB ARCHITECTURE WILL FAIL IF IT ISN'T COMMUNICATED WELL NOW THERE'S A LANGUAGE AND NOTATION INDEPENDENT GUIDE TO CAPTURING ARCHITECTURE SO IT CAN BE USED SUCCESSFULLY BY EVERY ANALYST SOFTWARE DESIGNER AND DEVELOPER THE AUTHORS REVIEW THE DIVERSE GOALS AND USES OF SOFTWARE ARCHITECTURE DOCUMENTATION PROVIDING DOCUMENTATION STRATEGIES FOR SEVERAL COMMON SCENARIOS THEY IDENTIFY THE BASIC UNIT OF SOFTWARE ARCHITECTURE DOCUMENTATION THE VIEWTYPE WHICH SPECIFIES THE TYPE OF INFORMATION TO BE PROVIDED IN AN ARCHITECTURAL VIEW FOR EACH VIEWTYPE MODULES COMPONENT AND CONNECTORS AND ALLOCATION THEY OFFER DETAILED GUIDANCE ON DOCUMENTING WHAT REALLY MATTERS NEXT THEY DEMONSTRATE HOW TO PACKAGE ARCHITECTURE DOCUMENTATION IN COHERENT USABLE FORM AUGMENTING ARCHITECTURAL VIEWS WITH DOCUMENTATION OF INTERFACES AND BEHAVIOR ACCOUNTING FOR ARCHITECTURAL VARIABILITY AND DYNAMIC SYSTEMS AND MORE

SOFTWARE ARCHITECTURE FOUNDATION - 2ND EDITION

2023-06-01

BRUNOBUCHBERGER THIS BOOK IS A SYNOPSIS OF BASIC AND APPLIED RESEARCH DONE AT THE VARIOUS RESEARCH INSTITUTIONS OF THE SOFTWAREPARK HAGENBERG IN AUSTRIA STARTING WITH 15 COWORKERS IN MY RESEARCH INSTITUTE FOR SYMBOLIC COMPUTATION RISC I INITIATED THE SOFTWAREPARK HAGENBERG IN 1987 ON REQUEST OF THE UPPER AUSTRIAN GOVERNMENT WITH THE OBJECTIVE OF CREATING A SCIENTIFIC TECHNOLOGICAL AND ECONOMIC IMPULSE FOR THE REGION AND THE INTERNATIONAL COMMUNITY IN THE MEANTIME IN A JOINT EFFORT THE SOFTWAREPARK HAGENBERG HAS GROWN TO THE CURRENT 2009 SIZE OF OVER 1000 R&D EMPLOYEES AND 1300 STUDENTS IN SIX RESEARCH INSTITUTIONS 40 COMPANIES AND 20 ACADEMIC STUDY PROGRAMS ON THE BACHELOR MASTER'S AND PHD LEVEL THE GOAL OF THE SOFTWAREPARK HAGENBERG IS INNOVATION OF ECONOMY IN ONE OF THE MOST IMPORTANT CURRENT TECHNOLOGIES SOFTWARE IT IS THE MESSAGE OF THIS BOOK THAT THIS CAN ONLY BE ACHIEVED AND GUARANTEED LONG TERM BY WATERING THE ROOT NAMELY EMPHASIS ON RESEARCH BOTH BASIC AND APPLIED IN THIS BOOK WE SUMMARIZE WHAT HAS BEEN ACHIEVED IN TERMS OF RESEARCH IN THE VARIOUS RESEARCH INSTITUTIONS IN THE SOFTWAREPARK HAGENBERG AND WHAT RESEARCH VISION WE HAVE FOR THE IMMINENT FUTURE WHEN I FOUNDED THE SOFTWAREPARK HAGENBERG IN ADDITION TO THE WATERING THE ROOT PRINCIPLE I HAD THE VISION THAT SUCH A TECHNOLOGY PARK CAN ONLY PROSPER IF WE REALIZE THE MAGIC TRIANGLE I.E THE CLOSE INTERACTION OF RESEARCH ACADEMIC EDUCATION AND BUSINESS APPLICATIONS AT ONE SITE SEE FIGURE 1



2009-04

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

DESIGN IT!

2019-11

IN THE JAVA WORLD SECURITY IS NOT VIEWED AS AN ADD ON A FEATURE IT IS A PERVASIVE WAY OF THINKING THOSE WHO FORGET TO THINK IN A SECURE MINDSET END UP IN TROUBLE BUT JUST BECAUSE THE FACILITIES ARE THERE DOESN T MEAN THAT SECURITY IS ASSURED AUTOMATICALLY A SET OF STANDARD PRACTICES HAS EVOLVED OVER THE YEARS THE SECURE R CODING R STANDARD FOR JAVA TM IS A COMPENDIUM OF THESE PRACTICES THESE ARE NOT THEORETICAL RESEARCH PAPERS OR PRODUCT MARKETING BLURBS THIS IS ALL SERIOUS MISSION CRITICAL BATTLE TESTED ENTERPRISE SCALE STUFF JAMES A GOSLING FATHER OF THE JAVA PROGRAMMING LANGUAGE AN ESSENTIAL ELEMENT OF SECURE CODING IN THE JAVA PROGRAMMING LANGUAGE IS A WELL DOCUMENTED AND ENFORCEABLE CODING STANDARD CODING STANDARDS ENCOURAGE PROGRAMMERS TO FOLLOW A UNIFORM SET OF RULES DETERMINED BY THE REQUIREMENTS OF THE PROJECT AND ORGANIZATION RATHER THAN BY THE PROGRAMMER S FAMILIARITY OR PREFERENCE ONCE ESTABLISHED THESE STANDARDS CAN BE USED AS A METRIC TO EVALUATE SOURCE CODE USING MANUAL OR AUTOMATED PROCESSES THE CERT R ORACLE R SECURE CODING STANDARD FOR JAVA TM PROVIDES RULES DESIGNED TO ELIMINATE INSECURE CODING PRACTICES THAT CAN LEAD TO EXPLOITABLE VULNERABILITIES APPLICATION OF THE STANDARD S GUIDELINES WILL LEAD TO HIGHER QUALITY SYSTEMS ROBUST SYSTEMS THAT ARE MORE RESISTANT TO ATTACK SUCH GUIDELINES ARE REQUIRED FOR THE WIDE RANGE OF PRODUCTS CODED IN JAVA FOR DEVICES SUCH AS PCS GAME PLAYERS MOBILE PHONES HOME APPLIANCES AND AUTOMOTIVE ELECTRONICS AFTER A HIGH LEVEL INTRODUCTION TO JAVA APPLICATION SECURITY SEVENTEEN CONSISTENTLY ORGANIZED CHAPTERS DETAIL SPECIFIC RULES FOR KEY AREAS OF JAVA DEVELOPMENT FOR EACH AREA THE AUTHORS PRESENT NONCOMPLIANT EXAMPLES AND CORRESPONDING COMPLIANT SOLUTIONS SHOW HOW TO ASSESS RISK AND OFFER REFERENCES FOR FURTHER INFORMATION EACH RULE IS PRIORITIZED BASED ON THE SEVERITY OF CONSEQUENCES LIKELIHOOD OF INTRODUCING EXPLOITABLE VULNERABILITIES AND COST OF REMEDIATION THE STANDARD PROVIDES SECURE CODING RULES FOR THE JAVA SE 6 PLATFORM INCLUDING THE JAVA PROGRAMMING LANGUAGE AND LIBRARIES AND ALSO ADDRESSES NEW FEATURES OF THE JAVA SE 7 PLATFORM IT DESCRIBES LANGUAGE BEHAVIORS LEFT TO THE DISCRETION OF JVM AND COMPILER IMPLEMENTERS GUIDES DEVELOPERS IN THE PROPER USE OF JAVA S APIS AND SECURITY ARCHITECTURE AND CONSIDERS SECURITY CONCERNS PERTAINING TO STANDARD EXTENSION APIS FROM THE JAVAX PACKAGE HIERARCHY THE STANDARD COVERS SECURITY ISSUES APPLICABLE TO THESE LIBRARIES LANG UTIL COLLECTIONS CONCURRENCY UTILITIES LOGGING MANAGEMENT REFLECTION REGULAR EXPRESSIONS ZIP I O JMX JNI MATH SERIALIZATION AND JAXP

THE RATIONAL UNIFIED PROCESS MADE EASY

2003-04-08

WIDELY CONSIDERED ONE OF THE BEST PRACTICAL GUIDES TO PROGRAMMING STEVE MCCONNELL S ORIGINAL CODE COMPLETE HAS BEEN HELPING DEVELOPERS WRITE BETTER SOFTWARE FOR MORE THAN A DECADE NOW THIS CLASSIC BOOK HAS BEEN FULLY UPDATED AND REVISED WITH LEADING EDGE PRACTICES AND HUNDREDS OF NEW CODE SAMPLES ILLUSTRATING THE ART AND SCIENCE OF SOFTWARE CONSTRUCTION CAPTURING THE BODY OF KNOWLEDGE AVAILABLE FROM RESEARCH ACADEMIA AND EVERYDAY COMMERCIAL PRACTICE MCCONNELL SYNTHESIZES THE MOST EFFECTIVE TECHNIQUES AND MUST KNOW PRINCIPLES INTO CLEAR PRAGMATIC GUIDANCE NO MATTER WHAT YOUR EXPERIENCE LEVEL DEVELOPMENT ENVIRONMENT OR PROJECT SIZE THIS BOOK WILL INFORM AND STIMULATE YOUR THINKING AND HELP YOU BUILD THE HIGHEST QUALITY CODE DISCOVER THE TIMELESS TECHNIQUES AND STRATEGIES THAT HELP YOU DESIGN FOR MINIMUM COMPLEXITY AND MAXIMUM CREATIVITY REAP THE BENEFITS OF COLLABORATIVE DEVELOPMENT APPLY DEFENSIVE PROGRAMMING TECHNIQUES TO REDUCE AND FLUSH OUT ERRORS EXPLOIT OPPORTUNITIES TO REFACTOR OR EVOLVE CODE AND DO IT SAFELY USE CONSTRUCTION PRACTICES THAT ARE RIGHT WEIGHT FOR YOUR PROJECT DEBUG PROBLEMS QUICKLY AND EFFECTIVELY RESOLVE CRITICAL CONSTRUCTION ISSUES EARLY AND CORRECTLY BUILD QUALITY INTO THE BEGINNING MIDDLE AND END OF YOUR PROJECT

THE CERT ORACLE SECURE CODING STANDARD FOR JAVA

2012

SOFTWARE SYSTEMS ARCHITECTURE IS A PRACTITIONER ORIENTED GUIDE TO DESIGNING AND IMPLEMENTING EFFECTIVE ARCHITECTURES FOR INFORMATION SYSTEMS IT IS BOTH A READILY ACCESSIBLE INTRODUCTION TO SOFTWARE ARCHITECTURE AND AN INVALUABLE HANDBOOK OF WELL ESTABLISHED BEST PRACTICES IT SHOWS WHY THE ROLE OF THE ARCHITECT IS CENTRAL TO ANY SUCCESSFUL INFORMATION SYSTEMS DEVELOPMENT PROJECT AND BY PRESENTING A SET OF ARCHITECTURAL VIEWPOINTS AND PERSPECTIVES PROVIDES SPECIFIC DIRECTION FOR IMPROVING YOUR OWN AND YOUR ORGANIZATION S APPROACH TO SOFTWARE SYSTEMS ARCHITECTURE WITH THIS BOOK YOU WILL LEARN HOW TO DESIGN AN ARCHITECTURE THAT REFLECTS AND BALANCES THE DIFFERENT NEEDS OF ITS STAKEHOLDERS COMMUNICATE THE ARCHITECTURE TO STAKEHOLDERS AND DEMONSTRATE THAT IT HAS MET THEIR REQUIREMENTS FOCUS ON ARCHITECTURALLY SIGNIFICANT ASPECTS OF DESIGN INCLUDING FREQUENTLY OVERLOOKED AREAS SUCH AS PERFORMANCE RESILIENCE AND LOCATION USE SCENARIOS AND PATTERNS TO DRIVE THE CREATION AND VALIDATION OF YOUR ARCHITECTURE DOCUMENT YOUR ARCHITECTURE AS A SET OF RELATED VIEWS USE PERSPECTIVES TO ENSURE THAT YOUR ARCHITECTURE EXHIBITS IMPORTANT QUALITIES SUCH AS PERFORMANCE SCALABILITY AND SECURITY THE ARCHITECTURAL VIEWPOINTS AND PERSPECTIVES PRESENTED IN THE BOOK ALSO PROVIDE A VALUABLE LONG TERM REFERENCE SOURCE FOR NEW AND EXPERIENCED ARCHITECTS ALIKE WHETHER YOU ARE AN ASPIRING OR PRACTICING SOFTWARE ARCHITECT YOU WILL FIND YOURSELF REFERRING REPEATEDLY TO

THE PRACTICAL ADVICE IN THIS BOOK THROUGHOUT THE LIFECYCLE OF YOUR PROJECTS A SUPPORTING SITE CONTAINING FURTHER INFORMATION CAN BE FOUND AT VIEWPOINTS AND PERSPECTIVES INFO

CODE COMPLETE

2004-06-09

USER INTERFACES UI OF APPLICATIONS SINCE ABOUT 2010 ARE USUALLY IMPLEMENTED BY DEDICATED FRONTEND PROGRAMS FOLLOWING A RICH CLIENT ARCHITECTURE AND ARE BASED ON THE TECHNOLOGIES HTML CSS AND JAVASCRIPT THIS APPROACH PROVIDES GREAT FLEXIBILITY AND POWER BUT COMES WITH AN INHERENT GREAT OVERALL COMPLEXITY OF UIS RUNNING ON A CONTINUOUSLY CHANGING TECHNOLOGY STACK THIS IS BECAUSE SINCE OVER TWENTY YEARS TECHNOLOGIES STILL PROGRESS AT AN EXTREMELY HIGH INVENTION RATE AND UNFORTUNATELY AT THE SAME TIME STILL REGULARLY REINVENT PART OF THEIR SELF THIS SITUATION IS HARMLESS FOR SMALL UIS CONSISTING OF JUST A HANDFUL DIALOGS AND HAVING TO LAST FOR JUST ABOUT ONE OR TWO YEARS HOWEVER IT BECOMES A MAJOR HURDLE FOR LARGE UIS CONSISTING OF A FEW HUNDRED DIALOGS AND HAVING TO LAST FOR FIVE OR MORE YEARS THIS IS ESPECIALLY THE CASE FOR THE COMPLEX UIS OF INDUSTRIAL BUSINESS INFORMATION SYSTEMS THE MAIN SCIENTIFIC CONTRIBUTION OF THIS DISSERTATION IS THE HIERARCHICAL USER INTERFACE COMPONENT ARCHITECTURE HUCA A SCALABLE SOFTWARE ARCHITECTURE FOR RICH CLIENT BASED USER INTERFACES IT IS PRIMARILY BASED ON THE IMPORTANT ARCHITECTURE PRINCIPLE SEPARATION OF CONCERNS SOC THE DERIVED IDEA OF HIERARCHICAL COMPOSITION THE INVENTED DESIGN PATTERN MODEL VIEW CONTROLLER COMPONENT TREE MVC CT AND THE EXISTING CONCEPTS PRESENTATION MODEL AND DATA BINDING

SOFTWARE SYSTEMS ARCHITECTURE

2005-04-20

THE SOFTWARE FACTORY METHODOLOGY IS BASED ON RECOGNITION OF THESE SIMILARITIES AND A DRIVE TO EXTEND THE CONCEPT OF REUSABILITY TO THE POINT WHERE WE ACHIEVE ENTIRELY AUTOMATED PRODUCT LINES BASED ON AN ANALYSIS AND UNDERSTANDING OF THE COMMON FEATURES AND TECHNIQUES OF A SET OF APPLICATIONS A SOFTWARE FACTORY DEFINES A TAILORED END TO END METHODOLOGY FOR BUILDING THESE APPLICATIONS AT THE HEART OF THE SOFTWARE FACTORY METHODOLOGY IS THE CONCEPT OF DOMAIN SPECIFIC LANGUAGES DSLS WHICH IN ESSENCE ARE DEVELOPMENT ENVIRONMENTS SPECIFICALLY TAILORED TO THE SET OF APPLICATIONS IN HAND IT REMOVES A CERTAIN DEGREE OF FLEXIBILITY BUT GREATLY ENHANCES PRODUCTIVITY BY REMOVING A LOT OF THE CODING COMPLEXITY FOR AN ANALOGY CONSIDER THE USE OF THE NOW UBIQUITOUS DRAG AND DROP CONTROLS IN WINFORMS OR VISUAL BASIC FURTHER IN THE SF METHODOLOGY PATTERNS PROCESS ADVICE AND BEST PRACTICES CAN BE HARVESTED AND APPLIED FOR ALL APPLICATIONS IN THE SET THERE ARE SOME GOOD BOOKS ON THE THEORY OF SF ALREADY ON THE MARKET UP UNTIL THIS POINT A LOT OF THESE CONCEPTS WERE FAIRLY THEORETICAL AND ABSTRACT

HIERARCHICAL USER INTERFACE COMPONENT ARCHITECTURE

2018-12-18

SOFTWARE ARCHITECTURE IS A PRIMARY FACTOR IN THE CREATION AND EVOLUTION OF VIRTUALLY ALL PRODUCTS INVOLVING SOFTWARE IT IS A TOPIC OF MAJOR INTEREST IN THE RESEARCH COMMUNITY WHERE PRONUSMG FORMALISMS PROCESSES AND TECHNOLOGIES ARE UNDER DEVELOPMENT ARCHITECTURE IS ALSO OF MAJOR INTEREST IN INDUSTRY BECAUSE IT IS RECOGNIZED AS A SIGNIFICANT LEVERAGE POINT FOR MANIPULATING SUCH BASIC DEVELOPMENT FACTORS AS COST QUALITY AND INTERVAL ITS IMPORTANCE IS ATTESTED TO BY THE FACT THAT THERE ARE SEVERAL INTERNATIONAL WORKSHOP SERIES AS WELL AS MAJOR CONFERENCE SESSIONS DEVOTED TO IT THE FIRST WORKING IFIP CONFERENCE ON SOFTWARE ARCHITECTURE WICSAL PROVIDED A FOCUSED AND DEDICATED FORUM FOR THE INTERNATIONAL SOFTWARE ARCHITECTURE COMMUNITY TO UNIFY AND COORDINATE ITS EFFORT TO ADVANCE THE STATE OF PRACTICE AND RESEARCH WICSA 1 WAS ORGANIZED TO FACILITATE INFORMATION EXCHANGE BETWEEN PRACTISING SOFTWARE ARCHITECTS AND SOFTWARE ARCHITECTURE RESEARCHERS THE CONFERENCE WAS HELD IN SAN ANTONIO TEXAS USA FROM FEBRUARY 22ND TO FEBRUARY 24TH 1999 IT WAS THE INITIATING EVENT FOR THE NEW IFIP TC 2 WORKING GROUP ON SOFTWARE ARCHITECTURE THIS PROCEEDINGS DOCUMENT CONTAINS THE PAPERS ACCEPTED FOR THE CONFERENCE THE PAPERS IN THIS VOLUME COMPRISE BOTH EXPERIENCE REPORTS AND TECHNICAL PAPERS THE PROCEEDINGS REFLECT THE STRUCTURE OF THE CONFERENCE AND ARE DIVIDED INTO SIX SECTIONS CORRESPONDING TO THE WORKING GROUPS ESTABLISHED FOR THE CONFERENCE

PRACTICAL SOFTWARE FACTORIES IN .NET

2006-11-22

PREFACETO UNDERSTAND ANYTHING YOU SHOULD NOT TRY TO UNDERSTAND EVERYTHING ARISTOTLE THE WHOLE IS GREATER THAN THE SUM OF THE PARTS THE PART IS GREATER THAN A FRACTION OF THE WHOLE ARISTOTLE ARCHITECTING IS A CHALLENGING PROCESS OF ABSTRACTION COMPOSITION MODULARITY AND SIMPLIFICATION TO CREATE AN ARCHITECTURE SPECIFICATION AN ARCHITECTURE SPECIFICATION CAPTURES THE ESSENCE AND DEFINITION OF THE SYSTEM UNDERSTANDING PARTS AND THE RELATIONSHIPS AMONG THE PARTS AN ARCHITECTURE SPECIFICATION DEFINES HOW A SYSTEM SOLVES A BUSINESS PROBLEM WITHIN THE SCOPE OF THE BUSINESS PUTMAN LEAVE THE BEATEN TRACK OCCASIONALLY AND DIVE INTO THE WOODS YOU WILL BE CERTAIN TO FIND SOMETHING THAT YOU HAVE NEVER SEEN BEFORE ALEXANDER GRAHAM BELL THERE ARE LARGE GAPS IN THE THEORY AND PRACTICE OF SOFTWARE ARCHITECTURE AND ENGINEERING MUCH IS PUBLISHED ABOUT THE REPRESENTATION OF A SOFTWARE ARCHITECTURE SUCH AS THE UNIFIED MODELING LANGUAGE UML BUT LITTLE IS AVAILABLE ABOUT THE SPECIFICATION FOR A SOFTWARE ARCHITECTURE SOFTWARE ENGINEERING METHODS OF DOMAIN ENGINEERING PROCESS MODELING LANGUAGES AND WELL FORMED PATTERNS OF REASONING AID IN THE SPECIFICATION OF AN ARCHITECTURE THE REFERENCE MODEL OF OPEN DISTRIBUTED PROCESSING RM ODP DEFINES THE STANDARD REFERENCE MODEL FOR DISTRIBUTED SOFTWARE SYSTEMS ARCHITECTURES BASED ON OBJECT ORIENTED TECHNIQUES ACCEPTED AT THE INTERNATIONAL LEVEL RM ODP IS A STANDARD ADOPTED BY THE INTERNATIONAL STANDARDS ORGANIZATION ISO AND THE INTERNATIONAL TELECOMMUNICATIONS UNION ITU RM ODP IS EMBEDDED AND USED ACTIVELY IN MISSION CRITICAL SYSTEMS INDUSTRIES SUCH AS IN TELECOMMUNICATIONS IN HEALTH CARE ON WALL STREET FINANCIAL SERVICES INDUSTRY IN VARIOUS GOVERNMENT SYSTEMS LOGISTICS IN EUROPEAN GOVERNMENT AGENCIES SUCH AS UK AVIATION CONTROL SYSTEMS AS A FOUNDATION FOR THE OBJECT MANAGEMENT GROUP OMG OBJECT MANAGEMENT ARCHITECTURE OMA FOR DEFINING ENTERPRISE ARCHITECTURES AND FOR DEFINING SOFTWARE ARCHITECTURES THE SOFTWARE SYSTEMS ARCHITECTURE WORK THAT IS EMERGING AND IS FOCUSED EITHER AT THE COMPONENT LEVEL OR AT THE SYSTEMS LEVEL PROVIDES A KEY RESOURCE FOR ARCHITECTING THIS IS ENHANCED BY THE ARCHITECTING TECHNIQUES OF RM ODP THIS BOOK ASSEMBLES THESE GREAT IDEAS EXPLAINS WHAT THEY MEAN AND SHOWS HOW TO USE THEM FOR PRACTICAL BENEFIT ALONG WITH REAL WORLD CASE STUDY EXAMPLES BY USING THE RM ODP SPECIFICATION CONSTRUCTS ASSOCIATED LANGUAGES ARCHITECTURE PATTERNS OF REASONING SEMANTIC BEHAVIOR SPECIFICATION AND CONFORMANCE TESTING ABILITIES READERS WILL BE ABLE TO ARCHITECT THEIR SPECIFIC SYSTEMS BASED ON THE RM ODP SPECIFICATION FOUNDATIONS AND SPECIFY ARCHITECTURES THAT WORK ONE OF THE PURPOSES OF THIS BOOK IS TO PROVIDE THE APPROACH TO USING THE RM ODP FOUNDATIONS IN ARCHITECTING AND SPECIFYING A DISTRIBUTED PROCESSING SYSTEM THAT ADDRESSES SUCH KEY PROPERTIES AS INTEROPERABILITY DEPENDABILITY PORTABILITY INTEGRATION COMPOSABILITY SCALABILITY TRANSPARENCY BEHAVIOR SPECIFICATION QUALITY

OF SERVICE POLICY MANAGEMENT FEDERATION AND CONFORMANCE VALIDATION ANOTHER PURPOSE OF THIS BOOK IS TO EXPLAIN THE UNDERLYING FOUNDATIONS FOR CREATING AN ARCHITECTURAL SPECIFICATION THESE FOUNDATIONS COME NOT ONLY FROM RM ODP BUT ALSO FROM THE CURRENT WORK IN SOFTWARE SYSTEMS ARCHITECTURE ANOTHER PURPOSE IS TO GUIDE THE READER TO UNDERSTAND THE IMPORTANCE AND BENEFITS OF CREATING AN ARCHITECTURE SPECIFICATION FOR AN ENTERPRISE YET ANOTHER PURPOSE IS TO PROVIDE THE READER WITH THE PRINCIPLES TO CONSTRUCT SOFTWARE SYSTEMS ARCHITECTURE AT BOTH INTRODUCTORY AND IN DEPTH LEVELS BY APPLYING THE PROVEN TECHNIQUES OF RM ODP FOR WHAT MAKES A GOOD ARCHITECTURE READERS WILL BE ABLE TO BUILD THEIR OWN TAILORED ARCHITECTURES AND CLEARLY REPRESENT THEM IN UML OR SOME OTHER TOOL WITH AN UNDERSTANDING OF THE UNDERLYING PRINCIPLES PRACTITIONERS OF RM ODP HAVE FOUND THAT THE STANDARD IS EXTREMELY BENEFICIAL IN GUIDING ARCHITECTURE DEFINITION AND PROVIDING STANDARD TERMINOLOGY PRINCIPLES FOR DISTRIBUTED OBJECT APPLICATIONS AND INFRASTRUCTURES FROM AN ENTERPRISE PERSPECTIVE OUTSTANDING FEATURES THIS BOOK IS INTENDED TO PROVIDE VALUABLE INSIGHT INTO SUCCESSFUL ARCHITECTURE SPECIFICATION BY DESCRIBING AN UNPRECEDENTED FOUNDATION TO ACCOMPLISH THIS TASK DESCRIBING THE USE OF THE FOUNDATION EXPLAINING THE RELATIONSHIPS OF THE CONCEPTS OF ARCHITECTING EXPLAINING THE RELATIONSHIPS OF THE CONCEPTS OF DISTRIBUTED PROCESSING AND IDENTIFYING THE RIGHT METHODS AND POSSIBLE TOOLS FOR ARCHITECTING ALL MATERIAL FOR THE BOOK HAS BEEN DERIVED FROM ACTUAL EXPERIENCES A MEDICAL CASE STUDY IS USED THROUGHOUT THE BOOK IN EVER INCREASING DETAILED SPECIFICATION THIS MEDICAL CASE STUDY IS BASED ON ACTUAL EXPERIENCE OF THE AUTHOR IN ADDITION MANY METAMODELS ARE PROVIDED TO REPRESENT THE CONCEPTS OF RM ODP ALL OF THESE METAMODELS ARE CONTRIBUTIONS FROM THE AUTHOR THIS IS INFORMATION THAT READERS CAN USE AND APPLY IN THEIR ARCHITECTING TODAY RM ODP PROVIDES A REFERENCE FRAMEWORK GRAMMARS METHODS OF ABSTRACTION AND COMPOSITION AND SEPARATION OF CONCERNS TO ACHIEVE AN ARCHITECTURE SPECIFICATION OF THE SYSTEM RM ODP PROVIDES A FRAMEWORK FOR THIS SEPARATION USING VIEWPOINTS AS WELL AS SEPARATING OUT CERTAIN DECISIONS E G PRODUCT DECISIONS UNTIL LATER FURTHER THE REFERENCE MODEL PROVIDES A SET OF DEFINITIONS WHICH ALWAYS AIDS IN COMMUNICATING WITH OTHERS THERE IS LITTLE IN THE LITERATURE ABOUT RM ODP OR ARCHITECTURE SPECIFICATION AND CERTAINLY NOT A BOOK DEDICATED AS A TUTORIAL OF THESE SUBJECTS NOW THERE IS IN SUMMARY THIS BOOK OFFERS THE FOLLOWING HOW TO MANAGE THE ARCHITECTING PROCESS IN THE LIFECYCLE OF A SYSTEM HOW TO SOLVE MANY ARCHITECTURE REUSE AND COST EFFECTIVENESS PROBLEMS HOW TO CREATE A BUSINESS SPECIFICATION HOW TO UNDERSTAND AND USE THE CONCEPTS OF DISTRIBUTED PROCESSING IN AN ARCHITECTURE HOW TO ARCHITECT EFFECTIVELY HOW TO SPECIFY AN ARCHITECTURE HOW TO UNDERSTAND AND SPECIFY SEMANTIC BEHAVIOR AND NONFUNCTIONAL PROPERTIES OF A SYSTEM THE ILITIES HOW TO PROVIDE THE RIGHT LEVEL OF DETAIL IN AN ARCHITECTURE SPECIFICATION HOW TO ENSURE THE IMPLEMENTATION CONFORMS TO THE ARCHITECTURE SPECIFICATION HOW TO USE RM ODP EFFECTIVELY HOW TO USE POPULAR TOOLS SUCH AS UML TO DESCRIBE AN ARCHITECTURE A DEFINITIVE TUTORIAL OF RM ODP AUDIENCE THIS BOOK IS DESIGNED FOR THOSE IN THE DISTRIBUTED SOFTWARE SYSTEMS ARCHITECTURE COMMUNITY WHO ARE INTERESTED IN A METHODOLOGY FOR USING PROVEN ARCHITECTURE PRINCIPLES PROFESSIONAL SOFTWARE ARCHITECTS WHO ARE LOOKING FOR NEW IDEAS ABOUT ARCHITECTING A SYSTEM WITHIN THIS BOOK THE READER WILL FIND DISCUSSIONS OF THE TECHNIQUES FOR ARCHITECTING FOR CREATING AN ARCHITECTURE SPECIFICATION AND RM ODP S RELATIONSHIP TO OTHER ARCHITECTURE FRAMEWORKS PROGRAM MANAGERS INTERESTED IN HOW TO CREATE A COST EFFECTIVE ARCHITECTURE WITHIN THEIR ENTERPRISE THAT FOCUSES ON THE NEEDS OF THE ENTERPRISE AND SOLVES AN ENTERPRISE PROBLEM THEY WILL LEARN HOW DO TO DO THIS THROUGH AN OVERVIEW OF RM ODP THE PROGRAM BENEFITS FOR USING IT AND WHERE RM ODP FITS IN THE SYSTEM LIFECYCLE PROCESS SYSTEMS ENGINEERS INTERESTED IN THE LIFECYCLE APPROACH TO ENTERPRISE ARCHITECTURE SPECIFICATION EXPERIENCED ENGINEERS INTERESTED IN EXPANDING THEIR UNDERSTANDING OF HOW TO CREATE A VALID ARCHITECTURE SPECIFICATION AND GAIN AN UNDERSTANDING OF THE DISTRIBUTED PROCESSING SYSTEM CONCEPTS WHY CERTAIN CONSTRUCTIONS ARE VALID AND WHY SOME ARE NOT WHAT IS TO BE SPECIFIED AND HOW AND SOME NEW IDEAS AND APPROACHES TO ARCHITECTING A SYSTEM THE READER WILL BE ABLE TO DEVELOP A COLLECTION OF USEFUL DISTRIBUTED PROCESSING ARCHITECTING TECHNIQUES THAT EXPAND UPON THE CURRENT SOFTWARE SYSTEMS ARCHITECTURE CAPABILITIES DEVELOPERS INTERESTED IN THE PRACTICE OF ARCHITECTURE SPECIFICATION AND ALIGNING CURRENT TECHNOLOGY TO ACHIEVE A WORKABLE SYSTEM WHILE ALLOWING EVOLUTIONARY CHANGES IN TECHNOLOGY SOLUTIONS RESEARCHERS INTERESTED IN SOLUTIONS AND AIDS FOR FURTHERING THE RESEARCH WORK IN ARCHITECTURE SPECIFICATION INDIVIDUALS IN THE SOFTWARE COMMUNITY WHO ARE GENERALLY INTERESTED IN THE APPLICATION OF AN ARCHITECTURE METHOD READERS WILL FIND EXAMPLES OF THE APPLICATIONS OF RM ODP AND SPECIFIC ANALYSIS TECHNIQUES THE EXPECTED AUDIENCE WILL BE NOVICE AND MID LEVEL PROGRAM MANAGERS SOFTWARE ENGINEERS THOSE IN THE IEEE DOD RESEARCH COMMUNITIES CONSORTIA AND GENERAL ARCHITECTURE READERS THIS BOOK CAN BE USED AS A TEXTBOOK AND REFERENCE BOOK FOR STUDIES IN THE METHODS OF ARCHITECTURE FOR GRADUATE STUDIES IN SOFTWARE ARCHITECTURE SPECIFICATION FOR TRAINING INFORMATION ABOUT SOFTWARE ARCHITECTURE AND RM ODP FOR FURTHER EDUCATION OF CONSULTANTS INTEGRATION SPECIALISTS AND ACQUISITION MANAGERS WHO NEED TO APPROVE AND FUND SUCH WORK AND FOR RESEARCHERS WHO ARE EXPANDING THE DISCIPLINE OF SOFTWARE ARCHITECTURE THE INCLUSION OF RM ODP WILL BRING TO THE U S PRINCIPALLY THE OUTSTANDING WORK THAT WAS ACCOMPLISHED BY THE INTERNATIONAL STANDARDS WORKING GROUP IN BRIEF THE RM ODP PRINCIPLES FORM A SOLUTION SET AND FOUNDATION FOR ALL SOFTWARE ARCHITECTING ENDEAVORS IT IS THE FORMALIZED FRAMEWORK FOR THIS TOPIC AND AT THE INTERNATIONAL STANDARD IS LEVEL OF ACCEPTANCE IT FORMS A SOLUTION SET AND FOUNDATION FOR REUSE OF DESIGN PATTERNS TO PROVIDE COST EFFECTIVE SOFTWARE ARCHITECTURE IT IS THE PROCESS FOR THIS TOPIC BUT HAS NEVER BEFORE BEEN DESCRIBED IN A BOOK MANY PROGRAM MANAGERS WHO TYPICALLY SET THE STAGE AS TO THE METHODOLOGY OF CHOICE FOR A PROJECT SOFTWARE ENGINEERS AND RESEARCHERS IN ACADEMIA AND IN DARPA ARE UNAWARE OF THE POWER AND SOLUTIONS PROVIDED BY THE STANDARD OR THE PROCESS OF IDENTIFYING AND INSTANTIATING REUSE OF ALL THE EXPENSIVE ASSETS OF ARCHITECTURE MANY DO NOT REALIZE THAT THERE IS A LANGUAGE FOR SPECIFYING SOFTWARE INTENSIVE DISTRIBUTED PROCESSING AND THAT LANGUAGE IS PRECISELY AND RIGOROUSLY DEFINED IN RM ODP FOR REUSE THOSE DEBATING DEFINITIONS FOR ARCHITECTURE SYSTEM INTERFACE AND OTHERS CAN REUSE THE INTERNATIONALLY AGREED UPON DEFINITIONS FINALLY WITH THE INCLUSION OF RM ODP AND ITS RELATIONSHIP TO OTHER ARCHITECTURE FRAMEWORKS IT IS EXPECTED THAT MANY SOFTWARE ENGINEERS WILL BENEFIT FROM READING THIS WORK SINCE IT WILL BE THE FIRST TIME THESE SUBJECTS ARE DISCUSSED IN PRINT HOW TO USE THIS BOOK THIS BOOK IS DIVIDED INTO FOUR PARTS AIMED AT INCREASING LEVELS OF DETAIL PART ONE PROVIDES AN OVERVIEW OF THE FIELD OF SOFTWARE ARCHITECTURE AN RM ODP PRIMER FOR MANAGERS AND AN RM ODP PRIMER FOR ARCHITECTS PART TWO PROVIDES AN IN DEPTH STUDY OF RM ODP AND HOW TO USE IT AREAS OF IMPORTANCE AND UTILITY FROM RM ODP ARE HIGHLIGHTED AMBIGUITY IN RM ODP IS HIGHLIGHTED WARNINGS IN THE USE OF RM ODP ARE HIGHLIGHTED PART THREE PROVIDES A DISCUSSION OF THE PRINCIPAL ARCHITECTURE PATTERNS OF USE ARRANGED BY TOPIC SEVERAL OF THESE PATTERNS OF USE COME FROM EMERGING WORK UNDER THE INITIATIVE OF RM ODP AS WELL AS LESSONS LEARNED FROM THE PRACTICE OF RM ODP THESE PATTERNS OF REASONING USED BY THE ARCHITECT ARE FOUNDED ON THE PRINCIPALS OF RM ODP AS DISCUSSED IN PART TWO OF THE BOOK PART FOUR CONCLUDES WITH RELATING RM ODP TO OTHER ARCHITECTURE METHODS IT ALSO PROVIDES EMERGING TECHNOLOGIES TO FURTHER THE PATTERNS OF REASONING FOR USE IN ARCHITECTING AND A SET OF ARCHITECTING HEURISTICS THE INFORMATION CONTAINED IN THIS BOOK IS ORGANIZED IN A MANNER THAT PROVIDES CLEAR INSIGHT INTO THE WORLD OF DISTRIBUTED SOFTWARE INTENSIVE PROCESSING ARCHITECTURE FOR DESIGNERS AND DEVELOPERS WHO ARE FAMILIAR WITH INFORMATION SYSTEMS TECHNOLOGY BUT WANT TO KNOW MORE ABOUT HOW TO BUILD A GOOD ARCHITECTURE STARTING WITH A TUTORIAL ABOUT SOFTWARE ARCHITECTURE AND THEN A TUTORIAL ABOUT THE STANDARD FOR SOFTWARE ARCHITECTURE THE READER NEED NOT BE AN EXPERT IN THE AREA OF INTERNATIONAL STANDARDS RM ODP SOFTWARE ARCHITECTURE OR SPECIFIC TECHNOLOGIES THE BOOK GOES ON TO ADDRESS THE NEEDS OF THE VARIETY OF READERS FOR WHICH IT IS INTENDED EACH CHAPTER IN THE BOOK PROVIDES AN OVERVIEW OF THE SUBJECT OF THE CHAPTER AS WELL AS A SUMMARY FOR THOSE WHO WISH A BROAD BRUSH EXPOSURE TO RM ODP THE PRIMERS OF PART ONE PROVIDE THIS AS WELL AS THE OVERVIEWS AND SUMMARIES IN EACH CHAPTER OF INTEREST AS EACH CHAPTER PROGRESSES IN PARTS TWO AND THREE MORE AND MORE IN DEPTH DETAIL IS PROVIDED THE READINGS OF THESE CHAPTERS ARE AIMED AT THOSE WHO WISH TO KNOW THE TECHNICAL DETAILS OF A TOPIC THERE ARE TWO CASE STUDIES USED THROUGHOUT THE BOOK AT VARIOUS LEVELS OF DETAIL THE PRIMARY CASE STUDY IS A HOSPITAL ENTERPRISE BASED UPON THE AUTHOR S EXPERIENCE WITH THE MEDICAL PROFESSION A SECONDARY CASE STUDY IS AN AIRLINE RESERVATION SYSTEM ALSO BASED UPON THE AUTHOR S EXPERIENCE THESE CASE STUDIES ARE USED TO DESCRIBE THE CONCEPTS OF RM ODP AND TO SHOW HOW THEY MIGHT BE USED

MODELING LANGUAGE FOR SOFTWARE ARCHITECTURE QUALITY AND PRESENTS THE CORRESPONDING DEVELOPMENT STAGE IT DESCRIBES HOW QUALITY INFORMATION CAN BE USED TO CALIBRATE ARCHITECTURE MODELS FROM WHICH DETAILED SIMULATION MODELS ARE AUTOMATICALLY DERIVED FOR QUALITY PREDICTIONS READERS WILL LEARN HOW TO APPROACH SYSTEMATICALLY QUESTIONS ABOUT SCALABILITY HARDWARE RESOURCES AND EFFICIENCY THE TEXT FEATURES A RUNNING EXAMPLE TO ILLUSTRATE TASKS AND METHODS AS WELL AS THREE CASE STUDIES FROM INDUSTRY EACH CHAPTER ENDS WITH EXERCISES SUGGESTIONS FOR FURTHER READING AND TAKEAWAYS THAT SUMMARIZE THE KEY POINTS OF THE CHAPTER THE SIMULATOR CAN BE DOWNLOADED FROM A COMPANION WEBSITE WHICH OFFERS ADDITIONAL MATERIAL THE BOOK CAN BE USED IN GRADUATE COURSES ON SOFTWARE ARCHITECTURE QUALITY ENGINEERING OR PERFORMANCE ENGINEERING IT WILL ALSO BE AN ESSENTIAL RESOURCE FOR SOFTWARE ARCHITECTS AND SOFTWARE ENGINEERS AND FOR PRACTITIONERS WHO WANT TO APPLY PALLADIO IN INDUSTRIAL SETTINGS

SOFTWARE ENGINEERING DESIGN

2012-08-23

SOFTWARE PRODUCT LINES ARE EMERGING AS AN IMPORTANT NEW PARADIGM FOR SOFTWARE DEVELOPMENT PRODUCT LINES ARE ENABLING ORGANIZATIONS TO ACHIEVE IMPRESSIVE TIME TO MARKET GAINS AND COST REDUCTIONS IN 1997 WE AT THE SOFTWARE ENGINEERING INSTITUTE SEI LAUNCHED A PRODUCT LINE PRACTICE INITIATIVE OUR VISION WAS THAT PRODUCT LINE DEVELOPMENT WOULD BE A LOW RISK HIGH RETURN PROPOSITION FOR THE ENTIRE SOFTWARE ENGINEERING COMMUNITY IT WAS OUR HOPE FROM THE BEGINNING THAT THERE WOULD EVENTUALLY BE SUFFICIENT INTEREST TO HOLD A CONFERENCE THE FIRST SOFTWARE PRODUCT LINE CONFERENCE SPLC 1 WAS THE REALIZATION OF THAT HOPE SINCE SPLC 1 WE HAVE SEEN A GROWING INTEREST IN SOFTWARE PRODUCT LINES COMPANIES ARE LAUNCHING THEIR OWN SOFTWARE PRODUCT LINE INITIATIVES PRODUCT LINE TECHNICAL AND BUSINESS PRACTICES ARE MATURING PRODUCT LINE TOOL VENDORS ARE EMERGING AND BOOKS ON PRODUCT LINES ARE BEING PUBLISHED MOTIVATED BY THE ENTHUSIASTIC RESPONSE TO SPLC 1 AND THE INCREASING NUMBER OF SOFTWARE PRODUCT LINES AND PRODUCT LINE RESEARCHERS AND PRACTITIONERS THE SEI IS PROUD TO SPONSOR THIS SECOND CONFERENCE DEDICATED TO SOFTWARE PRODUCT LINES WE WERE GRATIFIED BY THE SUBMISSIONS TO SPLC 2 FROM ALL PARTS OF THE GLOBE FROM GOVERNMENT AND COMMERCIAL ORGANIZATIONS FROM THESE SUBMISSIONS WE WERE ABLE TO ASSEMBLE A RICH AND VARIED CONFERENCE PROGRAM WITH UNIQUE OPPORTUNITIES FOR SOFTWARE PRODUCT LINE NOVICES EXPERTS AND THOSE IN BETWEEN THIS COLLECTION REPRESENTS THE PAPERS SELECTED FROM THAT RESPONSE AND INCLUDES RESEARCH AND EXPERIENCE REPORTS

MODELING AND SIMULATING SOFTWARE ARCHITECTURES

2016-10-21

SOFTWARE PRODUCT LINES

2003-08-02

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