Free ebook Microsoft net architecting applications for the enterprise dino esposito [PDF]

Microsoft .NET - Architecting Applications for the Enterprise Microsoft .NET Microsoft .NET - Architecting Applications for the Enterprise Architecting Cloud Native Applications Microsoft .Net: Architecting Applications For The Enterprise Architecting Data Intensive Applications Architecting for Scale Re-Architecting Application for Cloud Application Architecture for .NET NET Application Architecture Guide Application Architecture for .NET Cloud Native Architecture and Design Architecting the Internet of Things .NET 2版）.NET Architecting for Scale Designing Enterprise Applications with the J2EE Platform Architecting ASP.NET Core Applications Architecting High Performing, Scalable and Available Enterprise Web Applications Architecting Modern Java EE Applications ASP.NET Core The Process of Software Architecting Essential Windows Azure Architecting Web Services Architecting HBase Applications Microservices: Patterns and Applications Hadoop Application Architectures Architecting with RM-ODP Building Object Applications that Work Exam Prep for Microsoft .NET - Architecting Applications ... Microsoft ASP.NET and AJAX Designing the Requirements Architecting Microsoft .NET Solutions for the Enterprise Designing Data-Intensive Applications Architecting Microsoft Azure Solutions – Exam Guide 70-535 Architecting Vue.js 3 Enterprise-Ready Web Applications Enterprise-Grade Hybrid and Multi-Cloud Strategies Designing Apps for Success Architecting Composite Applications and Services with TIBCO Architecting Mobile Solutions for the Enterprise

Microsoft .NET - Architecting Applications for the Enterprise

2014-08-28

a software architect s digest of core practices pragmatically applied designing effective architecture is your best strategy for managing project complexity and improving your results but the principles and practices of software architecting what the authors call the science of hard decisions have been evolving for cloud mobile and other shifts now fully revised and updated this book shares the knowledge and real world perspectives that enable you to design for success and deliver more successful solutions in this fully updated second edition you will learn how only a deep understanding of domain can lead to appropriate architecture examine domain driven design in both theory and implementation shift your approach to code first model later including multilayer architecture capture the benefits of prioritizing software maintainability see how readability testability and extensibility lead to code quality take a user experience ux first approach rather than designing for data review patterns for organizing business logic use event sourcing and cqrs together to model complex business domains more effectively delve inside the persistence layer including patterns and implementation

Microsoft .NET

2009

make the right architectural decisions up front and improve the quality and reliability of your results led by two enterprise programming experts you ll learn how to apply the patterns and techniques that help control project complexity and make systems easier to build support and upgrade right from the start get pragmatic architectural guidance on how to build testability maintainability and security into your system early in the design expose business logic through a service oriented interface choose the best pattern for organizing business logic and behavior review and apply the patterns for separating the ui and presentation logic delve deep into the patterns and practices for the data access layer tackle the impedance mismatch between objects and data minimize development effort and avoid over engineering and deliver more robust results get code samples on the

Microsoft .NET - Architecting Applications for the Enterprise

2008-10-15

apply cloud native patterns and practices to deliver responsive resilient elastic and message driven systems with confidence key featuresdiscover best practices for applying cloud native patterns to your cloud applicationsexplore ways to effectively plan resources and technology stacks for high security and fault tolerancegain insight into core architectural principles using real world examplesbook description cloud computing has proven to be the most revolutionary it development since virtualization cloud native architectures give you the benefit of more flexibility over legacy systems this learning path

teaches you everything you need to know for designing industry grade cloud applications and efficiently migrating your business to the cloud it begins by exploring the basic patterns that turn your database inside out to achieve massive scalability you ll learn how to develop cloud native architectures using microservices and serverless computing as your design principles then you ll explore ways to continuously deliver production code by implementing continuous observability in production in the concluding chapters you ll learn about various public cloud architectures ranging from aws and azure to the google cloud platform and understand the future trends and expectations of cloud providers by the end of this learning path you ll have learned the techniques to adopt cloud native architectures that meet your business requirements this learning path includes content from the following packt products cloud native development patterns and best practices by john gilbertcloud native architectures by erik farr et al what you will learnunderstand the difference between cloud native and traditional architectureautomate security controls and configuration managementminimize risk by evolving your monolithic systems into cloud native applicationsexplore the aspects of migration when and why to use itapply modern delivery and testing methods to continuously deliver production codeenable massive scaling by turning your database inside outwho this book is for this learning path is designed for developers who want to progress into building cloud native systems and are keen to learn the patterns involved software architects who are keen on designing scalable and highly available cloud native applications will also find this learning path very useful to easily grasp these concepts you will need basic knowledge of programming and cloud computing

Architecting Cloud Native Applications

2019-04-16

architect and design data intensive applications and in the process learn how to collect process store govern and expose data for a variety of use cases key features integrate the data intensive approach into your application architecture create a robust application layout with effective messaging and data querying architecture enable smooth data flow and make the data of your application intensive and fast book description are you an architect or a developer who looks at your own applications gingerly while browsing through facebook and applauding it silently for its data intensive yet fluent and efficient behaviour this book is your gateway to build smart data intensive systems by incorporating the core data intensive architectural principles patterns and techniques directly into your application architecture this book starts by taking you through the primary design challenges involved with architecting data intensive applications you will learn how to implement data curation and data dissemination depending on the volume of your data you will then implement your application architecture one step at a time you will get to grips with implementing the correct message delivery protocols and creating a data layer that doesn t fail when running high traffic this book will show you how you can divide your application into layers each of which adheres to the single responsibility principle by the end of this book you will learn to streamline your thoughts and make the right choice in terms of technologies and architectural principles based on the problem at hand what you will learn understand how to envision a data intensive system identify and compare the non functional requirements of a data collection component understand patterns involving data processing as well as technologies that help to speed up the development of data processing systems understand how to implement data governance policies at design time using various open

source tools recognize the anti patterns to avoid while designing a data store for applications understand the different data dissemination technologies available to query the data in an efficient manner implement a simple data governance policy that can be extended using apache falcon who this book is for this book is for developers and data architects who have to code test deploy and or maintain large scale high data volume applications it is also useful for system architects who need to understand various non functional aspects revolving around data intensive systems

Microsoft .Net: Architecting Applications For The Enterprise

2009

every day companies struggle to scale critical applications as traffic volume and data demands increase these applications become more complicated and brittle exposing risks and compromising availability with the popularity of software as a service scaling has never been more important updated with an expanded focus on modern architecture paradigms such as microservices and cloud computing this practical guide provides techniques for building systems that can handle huge quantities of traffic data and demand without affecting the quality your customers expect architects managers and directors in engineering and operations organizations will learn how to build applications at scale that run more smoothly and reliably to meet the needs of customers learn how scaling affects the availability of your services why that matters and how to improve it dive into a modern service based application architecture that ensures high availability and reduces the effects of service failures explore the single team owned service architecture paradigm stosa a model for scaling your development organization in tandem with your application understand measure and mitigate risk in your systems use the cloud to build highly scalable applications

Architecting Data Intensive Applications

2018-07-31

this is a reference book for architects this book can be helpful for those developers who wants to increase breadth of knowledge about tools and technology if you are planning for career advancement and you are interviewing for cloud architect this book can also be used for interview preparation purpose you can go through this book before your interview every time so that you will remember all the concepts before interview as the technology is evolving very fast new tools and technologies are coming every day this book covers fundamental of architecting or re architecting of the application this book also makes you aware and provides details about tools and technology available in cloud this book does not over explain any concepts keeping in mind that you can complete your reading in less time with this book you will get lot of information in less reading time

Architecting for Scale

2020-02-28

get expert architectural and design level guidance for building distributed solutions with the microsoft net framework learning how to synthesize your knowledge of application development servers and infrastructure and business requirements this guide assumes you are familiar with net component development and the basic principles of a layered distributed application design it examines architectural issues and solution design for a range of project stakeholders whether you build and design applications and services recommend appropriate technologies and products for applications and services make design decisions to meet functional and nonfunctional requirements or choose appropriate communications mechanisms for applications and services providing straightforward guidance recommendations and best practices gleaned from real world solution development all patterns practices guides are reviewed and approved by microsoft engineering teams consultants partners and customers delivering accurate real world information that s been technically validated and tested

Re-Architecting Application for Cloud

2020-06-17

the guide is intended to serve as a practical and convenient overview of and reference to the general principles of architecture and design on the microsoft platform and the net framework

Application Architecture for .NET

2002

get expert architectural and design level guidance for building distributed solutions with the microsoft net framework learning how to synthesize your knowledge of application development servers and infrastructure and business requirements

NET Application Architecture Guide

2009

build enterprise grade cloud native systems and learn all about cloud native architecture and design this book provides extensive in depth details of patterns tools techniques and processes with plenty of examples cloud native architecture and design begins by explaining the fundamentals of cloud native architecture and services what cloud principles and patterns to use and details of designing a cloud native element the book progresses to cover the details of how it systems can modernize to embrace cloud native architecture and also provides details of various enterprise assessment techniques to decide what

systems can move and cannot move into the cloud architecting and designing a cloud native system isn t possible without modernized software engineering principles the culture of automation and the culture of innovation as such this book covers the details of cloud native software engineering methodologies and process and how to adopt an automated governance approach across enterprises with the adoption of artificial intelligence finally you need your cloud native applications to run efficiently this section covers the details of containerization orchestration and virtualization in the public private and hybrid clouds after reading this book you will have familiarity with the many concepts related to cloud native and understand how to design and develop a successful cloud native application technologies and practices may change over time but the book lays a strong foundation on which you can build successful cloud native systems what you will learn discover cloud native principles and patterns and how you can leverage them to solve your business problems gain the techniques and concepts you need to adapt to design a cloud native application use assessment techniques and tools for it modernization apply cloud native engineering principles to the culture of automation and culture of innovation harness the techniques and tools to run your cloud native applications and automate infrastructure operate your cloud native applications by using ai techniques and zero operation techniques who this book is for software architects leaders developers engineers project managers and students

Application Architecture for .NET

2003

many of the initial developments towards the internet of things have focused on the combination of auto id and networked infrastructures in business to business logistics and product lifecycle applications however the internet of things is more than a business tool for managing business processes more efficiently and more effectively it will also enable a more convenient way of life since the term internet of things first came to attention when the auto id center launched their initial vision for the epc network for automatically identifying and tracing the flow of goods within supply chains increasing numbers of researchers and practitioners have further developed this vision the authors in this book provide a research perspective on current and future developments in the internet of things the different chapters cover a broad range of topics from system design aspects and core architectural approaches to end user participation business perspectives and applications

Cloud Native Architecture and Design

2021-10-01

microsoft net architecting applications for the enterprise 2nd edition microsoft press 2014 net cqrs command query responsibility segregation net

Architecting the Internet of Things

2011-04-02

every day companies struggle to scale critical applications as traffic volume and data demands increase these applications become more complicated and brittle exposing risks and compromising availability this practical guide shows it devops and system reliability managers how to prevent an application from becoming slow inconsistent or downright unavailable as it grows scaling isn t just about handling more users it s also about managing risk and ensuring availability author lee atchison provides basic techniques for building applications that can handle huge quantities of traffic data and demand without affecting the quality your customers expect in five parts this book explores availability learn techniques for building highly available applications and for tracking and improving availability going forward risk management identify mitigate and manage risks in your application test your recovery disaster plans and build out systems that contain fewer risks services and microservices understand the value of services for building complicated applications that need to operate at higher scale scaling applications assign services to specific teams label the criticalness of each service and devise failure scenarios and recovery plans cloud services understand the structure of cloud based services resource allocation and service distribution

.NET 2.NET

2015-06-04

following her widely acclaimedautobiography of red a spellbinding achievement susan sontag a new collection of poetry and prose that displays anne carson s signature mixture of opposites the classic and the modern cinema and print narrative and verse inmen in the off hours carson reinvents figures as diverse as oedipus emily dickinson and audubon she views the writings of sappho st augustine and catullus through a modern lens she sets up startling juxtapositions lazarus among video paraphernalia virginia woolf and thucydides discussing war and in a final prose poem she meditates on the recent death of her mother with its quiet acute spirituality its fearless wit and sensuality and its joyful understanding that the fact of the matter for humans is imperfection men in the off hoursshows us the most exciting poet writing in english today michael ondaatje at her best from the hardcover edition

Architecting for Scale

2016

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Designing Enterprise Applications with the J2EE Platform

2002

backend design like you ve never seen it before a guide to building solid asp net core web apps that stand the test of time featuring more minimal apis more testing a new e commerce project and the modular monolith purchase of the print or kindle book includes a free pdf ebook key features learn multiple ways to organize your application code and become a more flexible asp net core developer explore hands on design patterns learn architectural principles and how to sidestep anti patterns refactor code toward modern application design such as feature based vertical slice and clean architecture book descriptionthis unique asp net core book will fill in the gaps in your rest api and backend designs learn how to build robust maintainable and flexible apps using gang of four gof design patterns and modern architectural principles this new edition is updated for net 8 and focuses exclusively on the backend with new content on rest apis the repr pattern and building modular monoliths you ll start by covering foundational concepts like rest the solid principles minimal apis dependency injection in net and other asp net core 8 mechanisms then you ll learn to develop components using design patterns including many from the gof finally you ll explore organizing your application code with patterns that vary from layers to feature oriented vertical slice designs covering cqs and a deep dive into microservices along the way a brand new e commerce project at the end of the book will tie it all together this how to guide will teach you how to assemble your own apis from building blocks to suit whatever real world requirements you may have what you will learn apply the solid principles for building flexible and maintainable software test your apps effectively with automated tests including black box testing embark on mastering asp net core dependency injection work with gof design patterns including strategy decorator facade and composite design rest apis using minimal apis and asp net core mvc discover layering and the tenets of clean architecture use feature oriented techniques as an alternative to layering explore microservices cqs repr vertical slice architecture and many more patterns who this book is for this book is for intermediate level asp net core developers who want to improve their c app code structure and api design skills asp net developers who want to modernize their knowledge and enhance their technical architecture skills will also like this book it s also a good refresher for those in software design roles with more experience looking to update their expertise a good knowledge of c programming and a basic understanding of web concepts is necessary to get the most out of this book though some refreshers are included along the way

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2015-03-19

architecting high performing scalable and available enterprise applications provides in depth insights into techniques for achieving desired scalability availability and performance quality goals for enterprise web applications the book provides an

integrated 360 degree view of achieving and maintaining these attributes through practical proven patterns novel models best practices performance strategies and continuous improvement methodologies and case studies the author shares his years of experience in application security enterprise application testing caching techniques production operations and maintenance and efficient project management techniques delivers holistic view of scalability availability and security caching testing and project management includes patterns and frameworks that are illustrated with end to end case studies offers tips and troubleshooting methods for enterprise application testing security caching production operations and project management exploration of synergies between techniques and methodologies to achieve end to end availability scalability performance and security quality attributes 360 degree viewpoint approach for achieving overall quality practitioner viewpoint on proven patterns techniques methodologies models and best practices bulleted summary and tabular representation of concepts for effective understanding production operations and troubleshooting tips

Architecting ASP.NET Core Applications

2024-03-22

find out how to craft effective business oriented java ee 8 applications that target customer s demands in the age of cloud platforms and container technology about this book understand the principles of modern java ee and how to realize effective architectures gain knowledge of how to design enterprise software in the age of automation continuous delivery and cloud platforms learn about the reasoning and motivations behind state of the art enterprise java technology that focuses on business who this book is for this book is for experienced java ee developers who are aspiring to become the architects of enterprise grade applications or software architects who would like to leverage java ee to create effective blueprints of applications what you will learn what enterprise software engineers should focus on implement applications packages and components in a modern way design and structure application architectures discover how to realize technical and cross cutting aspects get to grips with containers and container orchestration technology realize zero dependency 12 factor and cloud native applications implement automated fast reliable and maintainable software tests discover distributed system architectures and their requirements in detail java ee 8 brings with it a load of features mainly targeting newer architectures such as microservices modernized security apis and cloud deployments this book will teach you to design and develop modern business oriented applications using java ee 8 it shows how to structure systems and applications and how design patterns and domain driven design aspects are realized in the age of java ee 8 you will learn about the concepts and principles behind java ee applications and how to effect communication persistence technical and cross cutting concerns and asynchronous behavior this book covers continuous delivery devops infrastructure as code containers container orchestration technologies such as docker and kubernetes and why and especially how java ee fits into this world it also covers the requirements behind containerized zero dependency applications and how modern java ee application servers support these approaches you will also learn about automated fast and reliable software tests in different test levels scopes and test technologies this book covers the prerequisites and challenges of distributed systems that lead to microservice shared nothing architectures the challenges and solutions of consistency versus scalability will further lead us to event sourcing event driven architectures and the cqrs principle this book also includes the nuts and bolts of application performance as

well as how to realize resilience logging monitoring and tracing in a modern enterprise world last but not least the demands of securing enterprise systems are covered by the end you will understand the ins and outs of java ee so that you can make critical design decisions that not only live up to but also surpass your clients expectations style and approach this book focuses on solving business problems and meeting customer demands in the enterprise world it covers how to create enterprise applications with reasonable technology choices free of cargo cult and over engineering the aspects shown in this book not only demonstrate how to realize a certain solution but also explain its motivations and reasoning

Architecting High Performing, Scalable and Available Enterprise Web Applications

2014-10-29

 programming asp net core microsoft press 2018 2016 1 0 asp net core在 windows linux、macos web asp net core asp net core windows linux macos

Architecting Modern Java EE Applications

2017-10-09

a comprehensive process for defining software architectures that work a good software architecture is the foundation of any successful software system effective architecting requires a clear understanding of organizational roles artifacts activities performed and the optimal sequence for performing those activities with the process of software architecting peter eeles and peter cripps provide guidance on these challenges by covering all aspects of architecting a software system introducing best practice techniques that apply in every environment whether based on java ee microsoft net or other technologies eeles and cripps first illuminate concepts related to software architecture including architecture documentation and reusable assets next they present an accessible task focused guided tour through a typical project focusing on the architect s role with common issues illuminated and addressed throughout finally they conclude with a set of best practices that can be applied to today s most complex systems you will come away from this book understanding the role of the architect in a typical software development project how to document a software architecture to satisfy the needs of different stakeholders the applicability of reusable assets in the process of architecting the role of the architect with respect to requirements definition the derivation of an architecture based on a set of requirements the relevance of architecting in creating complex systems the process of software architecting will be an indispensable resource for every working and aspiring software architect and for every project manager and other software professional who needs to understand how architecture influences their work

ASP.NET Core

2019-05-23

a complete guide for every net developer who wants to move into cloud computing with windows azure this book walks the user through the cloud applications that respond to today s development face

The Process of Software Architecting

2009-07-14

architecting services is targeted toward developers and technical architects who have heard about and even started to work with services the book starts with a background on the evolution of services and their significance to future collaborative efforts via the internet it then reveals the architecture for services and the various relationships that can be established through their consumption following a short technical primer on xml and related technologies the services model is outlined to illustrate the decisions that have to be made in the areas of presentation interface and security before the design is even started topics ranging from content to state management to system infrastructures are discussed to help you understand the options and the pitfalls when developing robust services the life cycle of implementing services from start to finish is illustrated taking existing processes and exposing their functionality through services examples extend both java and com objects as services before exposing an entire hotel reservation system through a services workflow these exercises are followed by three application scenarios that consume these services again with both java and visual basic asp examples discussions cover the design implementation and testing of each solution to ensure a successful result finally the book takes a look ahead at the future of services by examining both the current strategies of the primary vendors and the standards initiatives that are presently under way a companion website provides all the source code and hosts the services and sample applications introduced in the book

Essential Windows Azure

2010-12-17

microservices patterns and applicationsmicroservices are the next big thing in designing scalable easy to maintain applications this book will explain everything you need to know about microservices to make your next project successful you will learn microservice patternsthis book goes into great detail on all of the microservice architecture patterns including monolithic architecture microservice architecture service discovery gateway proxy api orchestrated api service registration cqrs and event sourcing bulk heads circuit breaker message brokerthe most important thing about microservices is when and how to apply a pattern along with explaining what choices you must make and why every system is different so it is vital to understand a lot of basics before designing and developing your own microservices from monolithic to microservice the basics here are how to decompose a monolithic system into a microservice and this book shows exactly how this process is completed service oriented architecture to microservicea more common need is to migrate your system from a soa based architecture to microservices there are many advantages and the process is not as straightforward as you would expect new microservicesif you want to build a brand new system and leverage the power of microservices this book outlines the pitfalls strategies and

tactics needs to make this work for you it is not as easy as it would seem and you will understand why after reading this book microservice technologiesyou ll learn about what technologies you need to use and understand for successful microservices virtualization containers docker and rocket databases security json tokens logging exceptions caching timeouts scalability cap cube platform as a service paas cloud architecture technology agnosticwhy microservices isn t this just the latest buzz word while microservices may be a recent trend and is gaining traction across the industry as a silver bullet it is not a silver bullet in this book you will learn important reasons why you cannot treat microservices or any technology or technique as a silver bullet there are tradeoffs and advnatages to every architectural decision you will understand the details by reading this book most importantly you will understand how microservices is what soa had promised and never delivered author lucas krauselucas has been in the technology industry as a consultant contractor architect engineer and manager and understands and has used microservices successfully to solve his client problems philosophy of microservicesyou ll learn about what the philosophy of microservices is and why this is important it is critical to understand the philosophy as that is what makes microservices work at so many other companies and solutions if you are looking to gain an understanding of microservices along with the patterns and application around the process to implementing them than this is the book for you ready to learn about microservices let s go want to be brought up to speed on the latest innovations and techniques with microservices want to understand why microservices what makes microservices so special what are the potential pitfalls why are microservices so popular how do i make my projects successful

Architecting Web Services

2001-09-01

get expert guidance on architecting end to end data management solutions with apache hadoop while many sources explain how to use various components in the hadoop ecosystem this practical book takes you through architectural considerations necessary to tie those components together into a complete tailored application based on your particular use case to reinforce those lessons the book s second section provides detailed examples of architectures used in some of the most commonly found hadoop applications whether you re designing a new hadoop application or planning to integrate hadoop into your existing data infrastructure hadoop application architectures will skillfully guide you through the process this book covers factors to consider when using hadoop to store and model data best practices for moving data in and out of the system data processing frameworks including mapreduce spark and hive common hadoop processing patterns such as removing duplicate records and using windowing analytics giraph graphx and other tools for large graph processing on hadoop using workflow orchestration and scheduling tools such as apache oozie near real time stream processing with apache storm apache spark streaming and apache flume architecture examples for clickstream analysis fraud detection and data warehousing

Architecting HBase Applications

2016

to 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

Microservices: Patterns and Applications

2015-04-01

written by internationally acclaimed trainer and developer scott ambler this book is a must have resource for designers programmers and testers of today s oo applications the author takes you through the entire process of building object applications from analyzing the project to designing a user friendly interface to testing your approaches to make sure your applications work properly building object applications that work includes sections on how to use the unified modeling language effectively analysis so you know what you need to build design techniques so that you know how you are going to

build your application collecting the right metrics to improve your development approach applying oo patterns to improve the quality of your applications creating applications for stand alone client server and distributed environments using both relational and object oriented databases to make your objects persistent and architecting your applications so they are maintainable and extensible

Hadoop Application Architectures

2015-06-30

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2001

rethink the way you plan design and build applications with expert guidance from development luminary dino esposito whether giving legacy sites a much needed tune up or architecting rich internet applications from the ground up you ll learn pragmatic approaches to ajax development that you can employ today discover how to delve into the mechanics and design goals of partial rendering such as improving page refresh speed use ajax enabled server controls to bring desktop like functionality to solutions apply design patterns to common development issues including client side data binding manipulate javascript more easily using the jquery and microsoft ajax libraries examine the interoperability and security models in microsoft silverlight weigh the tradeoffs when architecting applications for richness silverlight vs reach ajax and deliver the right solution for your audience

Building Object Applications that Work

1997-01-01

too many software applications don t do what s needed or they do it clumsily frustrating their users and owners the core problem poorly conceived and poorly crafted requirements in designing the requirements chris britton explains why it s not enough to simply gather requirements you need to design them britton offers powerful techniques for understanding stakeholders concerns and working with stakeholders to get the requirements right using britton s context driven approach to requirements design you can detect inconsistencies incompleteness poor usability and misalignment with business goals upstream long before developers start coding you can also design outward looking applications and services that will integrate more effectively in a coherent it architecture first britton explains what requirements design really means and presents a hierarchy of designs that move step by step from requirements through implementation next he demonstrates how to build on requirements processes you already use and how to overcome their serious limitations in large scale development then

he walks you through designing your application s relationship with the business users data and other software to ensure superior usability security and maximum scalability and resilience whether you re a software designer architect project manager or programmer designing the requirements will help you design software that works for users it and the entire business coverage includes designing the entire business solution not just its software component using engineering style design analysis to find flaws before implementation designing services and splitting large development efforts into smaller more manageable projects planning logical user interfaces that lead to superior user experiences designing databases and data access to reflect the meaning of your data building application frameworks that simplify life for programmers and project managers setting reasonable and achievable goals for performance availability and security designing for security at all levels from strategy to code identifying new opportunities created by context driven design

Exam Prep for Microsoft .NET - Architecting Applications ...

2019-08-18

data is at the center of many challenges in system design today difficult issues need to be figured out such as scalability consistency reliability efficiency and maintainability in addition we have an overwhelming variety of tools including relational databases nosql datastores stream or batch processors and message brokers what are the right choices for your applicaion how do you make sense of all these buzzwords in this practical and comprehensive guide author martin kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data software keeps changing but the fundamental principles remain the same with this book software engineers and architects will learn how to apply those ideas in practice and how to make full use of data in modern applications peer under the hood of the systems you already use and learn how to use and operate them more effectively make informed decisions by identifying the strengths and weaknesses of different tools navigate the trade offs around consistency scalability fault tolerance and complexity understand the distributed systems research upon which modern databases are built peek behind the scenes of major online services and learn from their architectures

Microsoft ASP.NET and AJAX

2009-04-15

get certified as an azure architect by acing the 70 535 architecting microsoft solutions 70 535 exam using this comprehensive guide with full coverage of the exam objectives key features learn to successfully design and architect powerful solutions on the azure cloud platform enhance your skills with mock tests and practice questions a detailed certification guide that will help you ace the 70 535 exam with confidence book description architecting microsoft azure solutions exam guide 70 535 will get azure architects and developers up to date with the latest updates on azure from an architecture and design perspective the book includes all the topics that are still relevant from the previous 70 534 exam and is updated with latest topics covered including artificial intelligence iot and architecture styles this exam guide is divided into six parts where the

first part will give you a good understanding of how to design a compute infrastructure it also dives into designing networking and data implementations you will learn about designing solutions for platform service and operations next you will be able to secure your resources and data as well as design a mechanism for governance and policies you will also understand the objective of designing solutions for platform services by covering artificial intelligence iot media services and messaging solution concepts finally you will cover the designing for operations objective this objective covers application and platform monitoring as well as designing alerting strategies and operations automation strategies by the end of the book you ll have met all of the exam objectives and will have all the information you need to ace the 70 535 exam you will also have become an expert in designing solutions on microsoft azure what you will learn use azure virtual machines to design effective vm deployments implement architecture styles like serverless computing and microservices secure your data using different security features and design effective security strategies design azure storage solutions using various storage features create identity management solutions for your applications and resources architect state of the art solutions using artificial intelligence iot and azure media services use different automation solutions that are incorporated in the azure platform who this book is for this book is for architects and experienced developers who are gearing up for the 70 535 exam technical architects interested in learning more about designing cloud solutions will also find this book useful

Designing the Requirements

2015-10-15

a comprehensive best practices guide to building vue js apps that can scale along with your business purchase of the print or kindle book includes a free pdf ebook key features implement vue js 3 to create vue js application with improved performance explore the vue js 3 composition api in depth while building your enterprise application ensure the scalability and maintainability of your apps with different types of testing book description building enterprise ready vue js apps entails following best practices for creating high performance and scalable applications complete with step by step explanations and best practices outlined this vue js book is a must read for any developer who works with a large vue js codebase where performance and scalability are indispensable throughout this book you ll learn how to configure and set up vue js 3 and the composition api and use it to build real world applications you ll develop the skills to create reusable components and scale performance in vue js 3 applications as you progress the book guides you in scaling performance with asynchronous lazy loading image compression code splitting and tree shaking furthermore you ll see how to use the restful api docker graphql and different types of testing to ensure that your vue js 3 application is scalable and maintainable by the end of this book you ll be well versed in best practices for implementing restful api docker graphql and testing methods to build and deploy an enterprise ready vue js 3 application of any scale what you will learn scale your app s performance in vue js 3 using best practices implement testing strategies for large scale vue js codebase manage large file structures using the micro frontend architecture discover the industry standard to dockerize and deploy an enterprise vue js 3 web application use graphql to deliver scalable and high performing applications explore various testing libraries and how to integrate them with vue js 3 who this book is for the vue js 3 book is for vue js developers and professional frontend developers who want to build high performance production grade and highly scalable enterprise vue js apps from design to deployment the book assumes working

knowledge of vue js and javascript programming

Architecting Microsoft .NET Solutions for the Enterprise

2009

leverage cloud technologies proven strategies and effective frameworks to drive seamless digital transformation key features understand the challenges enterprises face with cloud adoption and the importance of leadership vision learn how to build the foundation for a vendor agnostic cloud ready enterprise discover best practices to architect an enterprise cloud strategy and responsibly innovate with emerging technologies purchase of the print or kindle book includes a free pdf ebook book descriptionin the past decade cloud technology has evolved from a mere deployment platform into a driving force of innovation however navigating the complexities of cloud adoption especially with a hybrid approach presents significant challenges solving hybrid cloud challenges for enterprises is your trusted guide to overcome the problems encountered in this process written by a principal architect at google with 15 years of experience this vendor agnostic book begins by exploring the case studies of enterprises stepping into the world of the cloud highlighting the pivotal role of leadership vision and mindset in driving digital transformation you ll explore the basics of cloud technology its impact on various industries and the challenges of cloud adoption as you dive deeper you ll find real world use cases of enterprises that have digitally disrupted their respective industries by innovating in the cloud from assessing the cloud maturity of an organization and designing a cloud strategy to exploring the various facets of cloud transformation this book will guide you at every step of the way finally you ll learn how to lead your organization s cloud transformation journey with emerging technologies by the end you ll be well equipped to design and architect a scalable cloud first it organization what you will learn understand the hybrid cloud and multi cloud paradigms cultivate leadership will and mindset for crafting successful cloud transformation design and architect a scalable and open foundation for a cloud first it organization apply open standards and frameworks to design a vendor neutral cloud foundation understand the cloud adoption frameworks and conduct maturity assessments realize tangible business value through cloud adoption initiatives who this book is for this book is for cloud architects and engineers responsible for and seeking to digitally transform their business through cloud enterprise it leaders will be able to successfully navigate the enterprise cloud transformation complexities with cloud migration strategies prescriptive frameworks and practical real world examples a basic understanding of enterprise it functions and operations is assumed

Designing Data-Intensive Applications

2017-03-16

in 2007 apple released the iphone with this release came tools as revolutionary as the internet was to businesses and individuals back in the mid and late nineties apps much like websites drove and still drive business so too do apps drive sales efficiencies and communication between people but also like web design and development in its early years and iterations guidelines and best practices for apps are few and far between designing apps for success provides web app

designers and developers with consistent app design practices that result in timely appropriate and efficiently capable apps this book covers application lifecycle management that designers and developers use when creating apps for themselves or the entities that hired them from the early discussions with a company as to how to what kind of app they want to storyboarding to developing cross platform to troubleshooting to publishing designing apps for success gives a taut concise and pragmatic roadmap from the beginning of the process all the way to the end developers and designers will learn not only best practices on how to design an app but how to streamline the process while not losing any quality on the end result other topics in this book include case studies that best showcase the development process at work or not at work global examples of apps developed all over the world future proofing your apps post publishing promoting and marketing your apps and keeping it relevant consistent app design practices for consistently successful results

Architecting Microsoft Azure Solutions – Exam Guide 70-535

2018-04-27

today s complex composite applications and services must be architected with exceptional care tibco principal software architect dr paul c brown shows how to use tibco technologies to architect them for maximum performance reliability and value brown covers all major aspects of architecture participant structure and organization work structure and organization and mapping of work onto participants he first describes essential concepts associated with composite application and services including service utilization contracts component lifecycles naming namespaces and versioning next he reviews relevant tibco products and technologies this book s full section on service design addresses specification architecture data modeling data structure design and designing for versioning brown identifies proven service architecture patterns for several key issues an extensive discussion of composite applications covers composition styles and architecture collaboration orche

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2023-04-14

your guide to planning and executing a complete mobile web strategy revisit your approach to the mobile web and deliver effective solutions that reach customers and clients on a variety of mobile devices in this practical guide web development luminary dino esposito shows you how to develop a solid mobile strategy for the enterprise starting with an effective mobile website you ll receive essential architectural and implementation guidance as well as mobile specific design patterns for building cross platform and native applications discover how to architect a website accessible from many different mobile devices implement design patterns specific to mobile app development examine tools that enable you to write one codebase for many platforms use technologies for building windows phone iphone and android apps develop cross platform app features such as localization and offline behavior

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