

Architecture Principles Architecture Principles

Hongru Du



Architecture Principles Architecture Principles:

Architecture Principles Danny Greefhorst, Erik Proper, 2011-04-29 Enterprises from small to large evolve continuously. As a result, their structures are transformed and extended continuously. Without some means of control, such changes are bound to lead to an overly complex, uncoordinated, and heterogeneous environment that is hard to manage and hard to adapt to future changes. Enterprise architecture principles provide a means to direct transformations of enterprises. As a consequence, architecture principles should be seen as the cornerstones of any architecture. In this book, Greefhorst and Proper focus on the role of architecture principles. They provide both a theoretical and a practical perspective on architecture principles. The theoretical perspective involves a brief survey of the general concept of principle as well as an analysis of different flavors of principles. Architecture principles are regarded as a specific class of normative principles that direct the design of an enterprise from the definition of its business to its supporting IT. The practical perspective on architecture principles is concerned with an approach to the formulation of architecture principles as well as their actual use in organizations. To illustrate their use in practice, several real-life cases are discussed. An application of architecture principles in TOGAF is included, and a catalogue of example architecture principles is provided. With this broad coverage, the authors target students and researchers specializing in enterprise architecture or business information systems as well as practitioners who want to understand the foundations underlying their practical daily work. **Sustainable Architecture**

James Steele, 1997 Environmentally friendly design techniques from the world of sustainable architecture. Now you can design practical structures, interiors that also help conserve vital environmental resources. Sustainable Architecture by James Steele presents a unique new Object Building approach to modern design globally with respect for the unique natural resource conditions of various regions. You'll also get in-depth case studies on the foremost models of environmentally sensitive architecture plus the best type of materials that support these projects. Plus, you'll find out the origin of sustainable architecture, why ecological interdependence makes it so urgently needed. Whatever materials resources you're planning to use, you owe it to yourself, your clients to explore the new world of Sustainable Architecture. **Architecture and Principles of Systems Engineering**

Charles Dickerson, Dimitri N. Mavris, 2016-04-19 The rapid evolution of technical capabilities in the systems engineering (SE) community requires constant clarification of how to answer the following questions: What is Systems Architecture? How does it relate to Systems Engineering? What is the role of a Systems Architect? How should Systems Architecture be practiced? A perpetual reassessment of c *The Elements of Architecture* Scott Drake, 2014-02-04 The Elements of Architecture is a clear and well-structured introduction to sustainable architecture which concentrates on general principles to make an accessible and comprehensive primer for undergraduate students. The author takes a fresh and logical approach focusing on the way aspects of the built environment are experienced by the occupants and how that experience is interpreted in architectural design. He works through basic elements and senses: sun, heat, light, sound, air, water.

and fire to explain and frame effective environmental architectural design not only arguing that the buildings we inhabit should be viewed as extensions of our bodies that interact with and protect us from these elements but also using this analogy to explain complex ideas in an accessible manner **School Architecture** John Joseph Donovan, 2015-06-26

Excerpt from School Architecture Principles and Practices When the necessity for a comprehensive book of this kind was realized by the writer it was his first intention to offer a treatise on the planning of school buildings written wholly from the architect's point of view After a few months of effort it dawned upon him that in order to make the most thorough use of such information it would be more valuable to both architect and schoolman if the organization of American schools were first discussed and emphasized as a basis for the discussion of the architectural features Thus the application of modern school architecture to modern school development could be concisely and logically shown This plan has been followed Information on the organization of schools was very much needed by the writer when he first turned his attention to the architecture of school buildings and no doubt such a need is felt by many others who are now approaching the subject It must be realized that the old school even that of five years ago has passed just as surely as the little red school house that once stood on the hill In its place has already appeared the new throbbing spirited institution receiving its impulse from the heart of industry commerce and society which in turn are looking to the school for practical aid in the solving of their accumulating problems of trade employment and American citizenship But this new school cannot stand alone it must rest on the foundations and traditions of its predecessor just as the nation depends on the securely anchored constitutional footing given to it by its founders It is this transition which the schoolman and the architect working together and in sympathy must bring about with saneness and economy The organization of the school through the extension of its branches has become very complex to many who are out of touch with it to those intimately associated with it it is seen as a clearly unified development The writer understood that if the organization was to be properly presented it should be described by those who know it best Therefore the collaborators were selected with much care and their contributions are a very important part of the book A deep debt of gratitude is felt for all the assistance these associates have given they have entered into the work with a zeal and interest that has surpassed all anticipation The conferences and discussions have been a great pleasure and an education in themselves Particularly has the author profited in discussing the problems of the school with Mr William F Ewing formerly Director of Business Affairs of the Technical High School Oakland California whose vision of the school of the future is most delightfully hopeful and with Dr Edna Watson Bailey Head of the Science Department of the University High School of the same city who is eminently successful in arousing the interest of her students Acknowledgment is due for the encouragement and aid so cheerfully extended by Mr William C Bruce Editor of the American School Board Journal and by Mr W H Crocker Editor of the American Architect whose splendid journals have often been a source of valuable information also to Mr George M Thiriot Head of the Academic Department of the Technical Continuation School Oakland California for his valuable

assistance in editing the manuscript prepared by the writer The author is deeply grateful to his fellow architects who have so kindly furnished photographs and drawings of their work He hopes the book will be helpful in providing plans for schoolhouses in which the highest ideals of the American school may be more effectively realized About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com 10

Architecture Principles Ruth Slavid,2012 The rules of architecture have been discussed since the Roman architect and engineer Vitruvius coined the trilogy firmitas utilitas and venustas most commonly translated as firmness commodity and delight Put simply this means that a building should stand up and endure that it should serve its function and that it should give pleasure to its users and the wider community Great buildings like great art contain something that is impossible to define or pin down But that greatness in almost all cases overlays the principles set out in this book While one cannot guarantee that a building will be great if all the principles are followed you will avoid the pitfalls to which too many are subject This new title in our 10 Principles series provides clear explanations of each tenet along with useful illustrations to help the reader visualize what is being discussed The author assumes no background on the subject but an interest in learning more about what goes into making a building work An experienced writer on this subject Ruth Slavid provides a useful and illuminating primer to the field that is accessible to students of architecture architects or architectural historians or anyone interested in the principles behind the buildings that surround them Continuous Architecture Murat Erder,Pierre Pureur,2015-10-21 Continuous Architecture provides a broad architectural perspective for continuous delivery and describes a new architectural approach that supports and enables it As the pace of innovation and software releases increases IT departments are tasked to deliver value quickly and inexpensively to their business partners With a focus on getting software into end users hands faster the ultimate goal of daily software updates is in sight to allow teams to ensure that they can release every change to the system simply and efficiently This book presents an architectural approach to support modern application delivery methods and provide a broader architectural perspective taking architectural concerns into account when deploying agile or continuous delivery approaches The authors explain how to solve the challenges of implementing continuous delivery at the project and enterprise level and the impact on IT processes including application testing software deployment and software architecture Covering the application of enterprise and software architecture concepts to the Agile and Continuous Delivery models Explains how to create an architecture that can evolve with applications Incorporates techniques including refactoring architectural analysis testing and feedback driven development Provides insight into incorporating modern software development when structuring teams and organizations TOGAF® Version 9.1 The Open Group,2011-01-01 For trainers free additional material of this book is available This can be found under the Training Material tab Log in with your trainer account to access the material TOGAF is a framework a detailed method and a set of supporting tools for developing an enterprise architecture developed by members of The Open Group

Architecture Forum TOGAF Version 9 1 is a maintenance update to TOGAF 9 addressing comments raised since the introduction of TOGAF 9 in 2009 It retains the major features and structure of TOGAF 9 thereby preserving existing investment in TOGAF and adds further detail and clarification to what is already proven It may be used freely by any organization wishing to develop an enterprise architecture for use within that organization subject to the Conditions of Use This Book is divided into seven parts Part I Introduction This part provides a high level introduction to the key concepts of enterprise architecture and in particular the TOGAF approach It contains the definitions of terms used throughout TOGAF and release notes detailing the changes between this version and the previous version of TOGAF Part II Architecture Development Method This is the core of TOGAF It describes the TOGAF Architecture Development Method ADM a step by step approach to developing an enterprise architecture Part III ADM Guidelines Techniques This part contains a collection of guidelines and techniques available for use in applying TOGAF and the TOGAF ADM Part IV Architecture Content Framework This part describes the TOGAF content framework including a structured metamodel for architectural artifacts the use of re usable architecture building blocks and an overview of typical architecture deliverables Part V Enterprise Continuum Tools This part discusses appropriate taxonomies and tools to categorize and store the outputs of architecture activity within an enterprise Part VI TOGAF Reference Models This part provides a selection of architectural reference models which includes the TOGAF Foundation Architecture and the Integrated Information Infrastructure Reference Model III RM Part VII Architecture Capability Framework This section looks at roles Governance compliance skills and much more practical guidance

The Open Group Architecture Framework TOGAF Version 9 The Open Group,2015-01-01 The Open Group Architecture Framework TOGAF is a framework a detailed method and a set of supporting tools for developing an enterprise architecture developed by members of The Open Group Architecture Forum www.opengroup.org/architecture As a comprehensive open method for enterprise architecture TOGAF Version 9 complements and can be used in conjunction with other frameworks that are more focused on specific aspects of architecture or for vertical sectors such as Government Defense and Finance TOGAF may be used freely by any organization wishing to develop an enterprise architecture for use within that organization subject to the Conditions of Use This book is divided into seven main parts PART I Introduction This part provides a high level introduction to the key concepts of enterprise architecture and in particular the TOGAF approach It contains the definitions of terms used throughout TOGAF and release notes detailing the changes between this version and the previous version of TOGAF PART II Architecture Development Method This is the core of TOGAF It describes the TOGAF Architecture Development Method ADM a step by step approach to developing an enterprise architecture PART III ADM Guidelines Techniques This part contains a collection of guidelines and techniques available for use in applying TOGAF and the TOGAF ADM PART IV Architecture Content Framework This part describes the TOGAF content framework including a structured metamodel for architectural artifacts the use of re usable architecture building blocks and an overview of typical

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Enterprise Information Systems Joaquim Filipe, Michał Śmiałek, Alexander Brodsky, Slimane Hammoudi, 2020-02-19 This book constitutes extended revised and selected papers from the 21st International Conference on Enterprise Information Systems ICEIS 2019 held in Heraklion Crete Greece in May 2019 The 26 papers presented in this volume were carefully reviewed and selected for inclusion in this book from a total of 205 submissions They deal with topics such as data science and databases ontologies social networks knowledge management software development human computer interaction and multimedia

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