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SYSTEMS ARCHITECTURE OF AUTOMATED TELLER MACHINES: STRUCTURE-BEHAVIOR COALESCENCE METHOD FOR MODEL SINGULARITY (PAPERBACK)



On Demand Publishing, LLC>Create Space, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.A system is complex that it comprises multiple views such as strategy/version n, strategy/version n+1, concept, analysis, design, implementation, structure, behavior and input/output data views. Accordingly, a system is defined as a set of interacting components forming an integrated whole of that system s multiple views. Since structure and behavior views are the two most prominent ones among multiple views, integrating the structure and behavior views is a method for integrating multiple views of a system. In other words, structure-behavior coalescence (SBC) is a single model (model singularity) approach which results in the integration of multiple views. Therefore, it is concluded that the SBC architecture is so proper to model the multiple views of a system. In this book, we use the SBC architecture description language (SBC-ADL) to describe and represent the systems architecture of the Automated Teller Machine (ATM). An architecture description language is a special kind of system model used in defining the architecture of a system. SBC-ADL uses six fundamental diagrams to formally grasp the essence of a system and its details at the same time. These diagrams are: a) architecture hierarchy diagram, b) framework diagram, c) component operation diagram, d) component connection diagram, e) structure-behavior coalescence diagram and f) interaction flow diagram. Systems architecture is on the rise. By this book s introduction and elaboration of the systems architecture of the ATM, all readers may understand clearly how the SBC-ADL helps architects effectively perform architecting, in order to productively construct the fruitful systems architecture.



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