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Component-Based Software Development Framework for 3rd Party Logistics Business

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ABSTRACT

This paper suggests a component-based software development framework for 3rd party logistics (3PL) business. This framework integrates two engineering methodologies in order to identify the most reusable software components that can be used in several types of 3PL business models. UML (Unified Modeling Language) is used to design lower-level software components and DEMO (Design and Engineering Methodology for Organization), one of the business engineering methodologies based on the communication theory, is used to identify core business processes for 3PL business models. By using the methodologies, we develop a 3PL management solution by applying the framework into a C2C type of 3PL business model, specifically the door-to-door (D2D) service.

KEYWORDS

3PL, DEMO, UML, Software Development

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