Development of a Metamodel for Dexmo Software Platform

Univera Computer Systems Co.'s industrial research and development project approved by Ege Teknopark (Project no: ARY2017-13).

Abstract

A metamodel for a new Automatic Identification and Data Capture (AI/DC) software development platform, called Dexmo, was designed and implemented. Development of such a metamodel may lead to construction of a software development environment enabling high productivity and an efficient and a rapid development for the developers. End users of Dexmo platform are the software developers and/or project managers who deal with the creation of mobile business applications or supply chain management software. Within this new platform, developers follow a model-driven development (MDD) process in order to prepare the desired software. Dexmo has a component-based software architecture which is supported by micro services and constructed by the MDD principles. Considering all of these features and capabilities for high productivity and high control, Dexmo presents a High-Productivity Application Platform as a Service (hpaPaaS) that may provide rapid application development, deployment and execution in the cloud.

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