

Linking Business Process Models and System Models Based on Business Process Modelling

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Abstract : Organizations today need to invest in software in order to run their businesses, and to the organizations' objectives, the software should be in line with the business process. This research presents an approach for linking process models and system models. Particularly, the new approach aims to synthesize sequence diagram based on role activity diagram (RAD) model. The approach includes four steps namely: Create business process model using RAD, identify computerized activities, identify entities in sequence diagram and identify messages in sequence diagram. The new approach has been validated using the process of student registration in University of Petra as a case study. Further research is required to validate the new approach using different domains.

Keywords : business process modelling, system models, role activity diagrams, sequence diagrams

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