Development of a SaaS Platform for Rule-based and Automatic Management of Business Processes

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Abstract

In this project, a Software as a service (SaaS) platform, called RINDAP, which enables the rule-based, intelligent and automatic management of business processes on the cloud for the companies in different industrial domains, was developed. The need for companies to use different bundled software packages for each department of the companies, the integration of the data stored in differentiated technologies in the business processes and the distributed programs on the servers again in the distributed structure and the necessity of using them synchronously with each other make both the creation and the management of business processes increasingly complex and difficult. RINDAP provides an infrastructure to deal with this business process complexity, while also allowing for the automation of tasks such as the creation of manual workflow processes for different stakeholders at the same time. All stakeholders, including domain experts and analysts with no programming knowledge and experience, can graphically model and automatically execute the related workflow processes by utilizing the RINDAP's model-driven development environment.

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Related Publications:

1. Soleymanzadeh, K., Bul, Y., Bagci, S. and Kardas, G. (2019) "*A Tool for Modeling JsonLogic based Business Process Rules*", In proceedings of the 1st International Informatics and Software Engineering Conference (UBMYK 2019), November 6 -

7, 2019, Ankara, Turkey, IEEE Computer Society, pp. 263-267, DOI: 10.1109/UBMYK48245.2019.8965462

2. Soleymanzadeh, K., Bul, Y., Kulduk, S., Bagci, S. and Kardas, G. (2018) "*A Modeling Environment for the Development of Business Process Rules with JsonLogic*", In proceedings of the 7th Turkish Software Architecture Conference (UYMK 2018), November 29-30, 2018, Istanbul, Turkey, CEUR Workshop Proceedings, vol. 2291, pp. 133-148 (in Turkish).