Towards an End-User Development Tool for Mobile ERP Applications

Abstract:
Aim of this paper is to identify requirements on a software tool supporting end-user development of mobile ERP applications and to design an appropriate software architecture meeting the identified requirements. The paper introduces a prominent development tool for mobile ERP applications, demonstrating its weaknesses regarding the purpose of end-user development (EUD). A multi-method requirements analysis is used to identify requirements of a suitable EUD tool for mobile ERP applications. The results of the requirements analysis reveal that an EUD tool is suitable for implementing standard functions such as data display and entry functionalities. These functions could be implemented by using a set of configurable application components. These components could be used by end-users to compose individual applications. Additionally, the results indicate that a form-based interaction technique seems to be a suitable option for end-users to develop mobile ERP applications. Finally, a prototypic implementation of a
web-based EUD-tool demonstrates the feasibility of the presented software architecture.

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