Towards User Interface Components for Dashboard Applications on Smartphones

Abstract:
Aim of this paper is to identify common functionalities of dashboard applications on smartphones. The findings are used to design reusable user interface components in order to improve the development activities for such applications. In order to identify common functionalities twelve existing dashboard applications for smartphones from different vendors were analyzed. The findings are illustrated using an UML use-case diagram. A grouping of different use-cases represents the foundation for the proposed reusable user interface components. The components are described using a structured format based on user interface patterns. The findings revealed that the analyzed dashboard applications offer similar functionalities that were categorized by ten use-cases. The groups of functionality were used to design seven user interface components that could be reused in future developments. An implementation of the proposed components for the iPhone revealed that the components are feasible.
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