

Developing Lightweight Context-Aware Service Mashup Applications

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Abstract— As web services increase in popularity, the number of available services expands and they become more dynamic. Thus, it is increasingly important to allow the dynamic development of mashups on demand for a given context. To allow mobile users convenient access to the necessary services requires simple and lightweight context-aware methods to discover, select, and compose these services. In this paper, we introduce a model of a mashup page with a JavaScript wrapper that is generated automatically without user intervention. MyServices, the mashup construction system, allows service providers to register context-aware selection rules. Moreover, the JavaScript codes generated by MyServices can run in any browser environment and support navigation between services with minimal user interaction.

Keyword— context-aware service composition, ubiquitous services, service mashups, parameter matching.



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