

Multimodal Architecture and Caching Strategies for Mobile Web Services

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Abstract

With the fast development of mobile devices mobile applications have become more pervasive. Web services provide a distributed platform for applications. Applying Web services to mobile devices is inevitable. But mobile devices have their limitation. This paper discusses the performance issues of mobile Web services and proposes the caching and pre-fetching strategies to enhance the performance. In addition, according to different computing environment we propose different access model to facilitate the operations of mobile Web services through the performance improvement.

Keyword : Mobile Web services; Agent-based Framework; Caching; Pre-fetching