A Combined and Complete Cache Management Architecture

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Abstract - Literature review revealed that catching plays a key role in mobile computing because of, its ability to alleviate the performance and availability limitations of weekly-connected and disconnected operations . Catching frequently accessed data objects at the local buffer of a mobile is an efficient way to reduce query delay , save bandwidth and improve system performance . Classical cache ,management strategies may not be suitable for mobile environment , due to the disconnection and mobility of the mobile clients. Cache management in mobile environment , in general, includes cache placement , cache discovery , cache consistency and cache replacement techniques . In this paper , We design a combined cache management architecture which includes all the above techniques. By simulation results , We will show that our proposed architecture achieves lower latency and packet loss, reduced network bandwidth consumption , reduced data server workload .