Abstract

This paper discusses Web Service provisioning from Android Smart Phone. Web Service provisioning is the art of hosting and offering Web Services for Android based mobile device. This is due to advancements in mobile device manufacturing and wireless communication ability. This has changed the role of the mobile devices of Web service consumers to Web service providers. Today there is not a single real-time reasonable approach exists to host lightweight Web Services on Android smart phone. This paper describes the design and implementation details of the Android mobile host. Implementation of Android mobile host uses open source technologies such as Android, Java programming language, Android libraries, and SQLite database. The goal is to create an efficient and reliable Android mobile host as a web service provider that includes web services deployed on the mobile host and clients access the content. The main aim is to create lightweight weight framework for Android host that takes care of resource limitations and battery life. The manuscript presents a detailed performance evaluation of REST architecture and compares the results with SOAP standard.
Keywords

Android; Mobile web-server; Web Services; mobile Web Service provider; LTE.