

Requirements for Mobile Intellectual Collaboration

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Abstract

We present a scenario for the use of smartphones in improvised intellectual collaboration between two or more participants. The scenario results in a set of functional and non-functional requirements that smartphones must fulfill in order to support such collaboration. The Wireless Internet Collaboration System (WICS) implements some of the requirements for the domain of mathematics communication. A full implementation requires, in turn, support from software libraries such as the Java Micro Edition. We specify some of the features that are required from libraries for mobile devices. Finally, we discuss a distribution model for software that supports mobile intellectual collaboration.