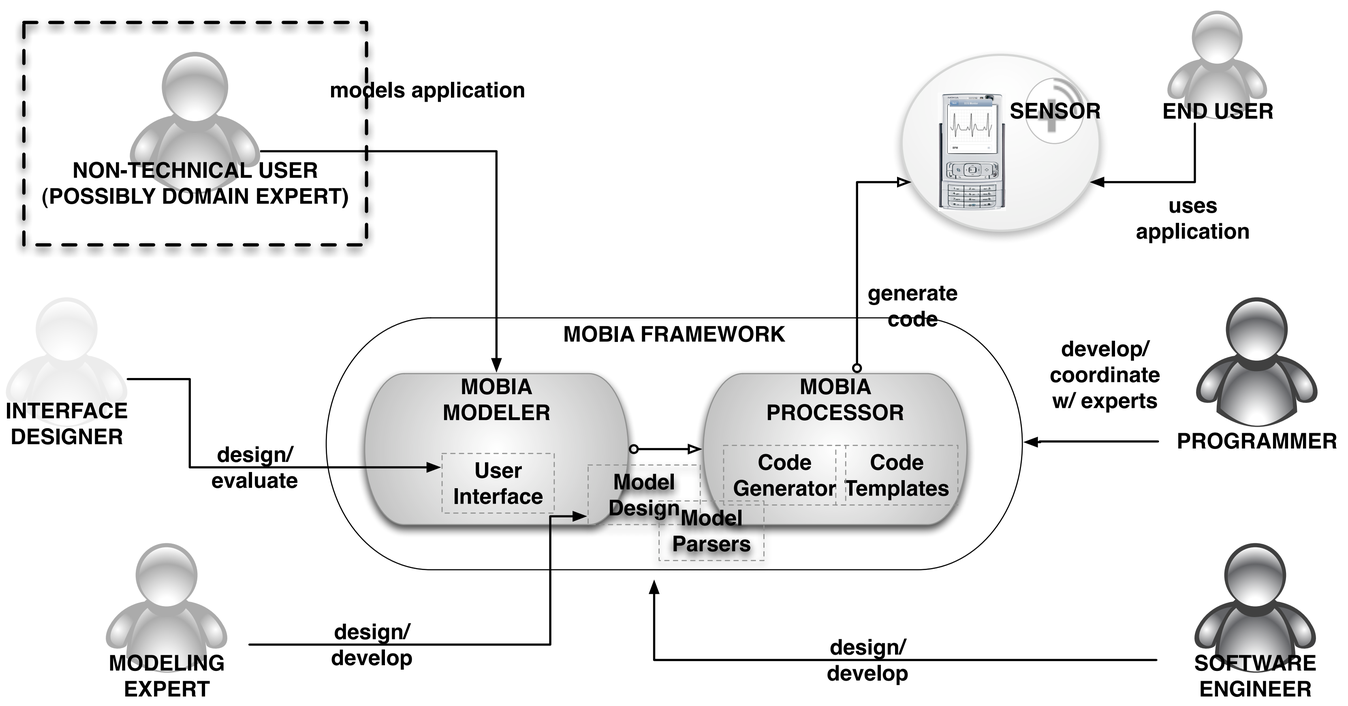
Mobia Modeler: Easing the Creation Process of Mobile Applications for Non-Technical Users

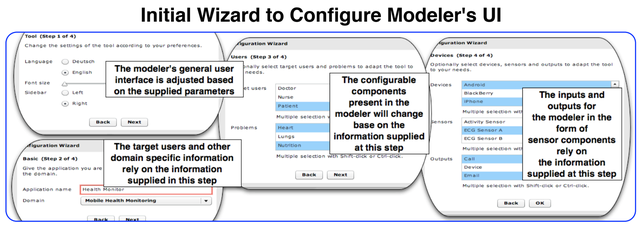
Abstract --- The development of mobile applications has now extended from mobile network providers into the hands of ordinary people as organizations and companies encourage people to come up with their own software masterpieces by opening up APIs and tools. However, as of the moment, these APIs and tools are only usable by people with programming skills. There is a scarcity of tools that enable users without programming experience to easily build customized mobile applications. We present in this paper a **tool and framework that would enable non-technical people to create their own domain-specific mobile applications**. The tool features a simple user-interface that features configurable components to easily create mobile applications. As a proof of concept, we focus on the creation of applications in the domain of mobile health monitoring. In the future, we would like to extend our work to cover other domains as well.

Mobia Framework Overview and Use Cases

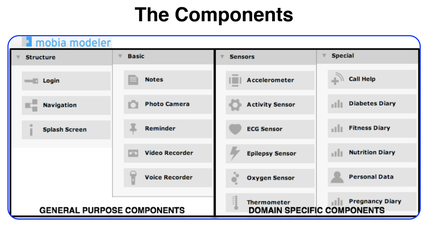


The Modeler

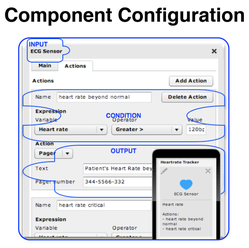
Initial Wizard to Configure Modeler's UI



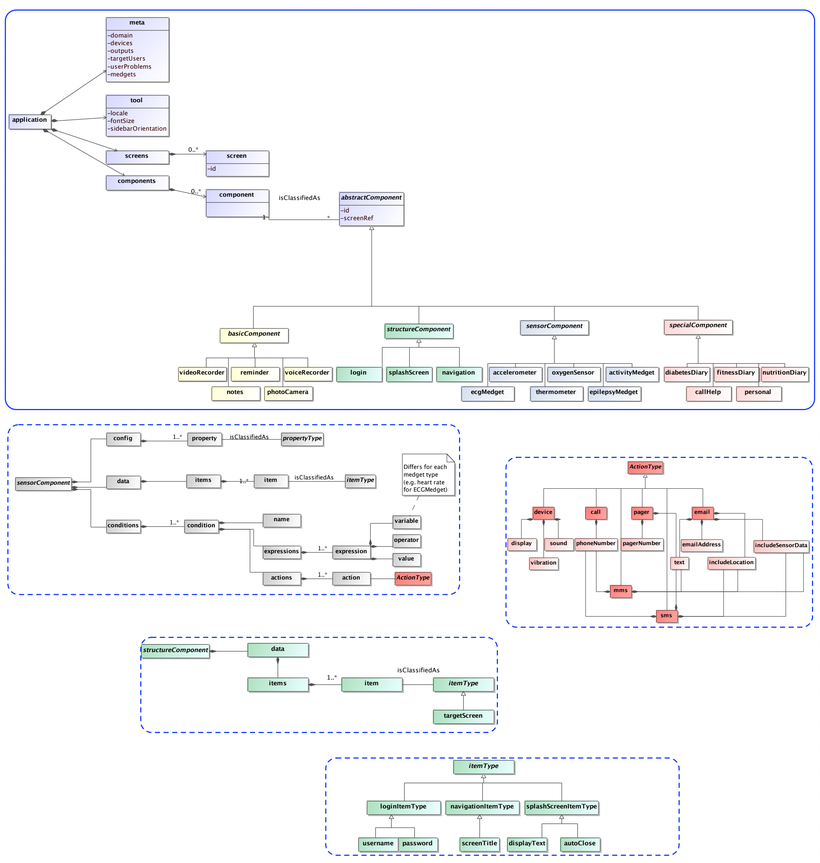
The Components



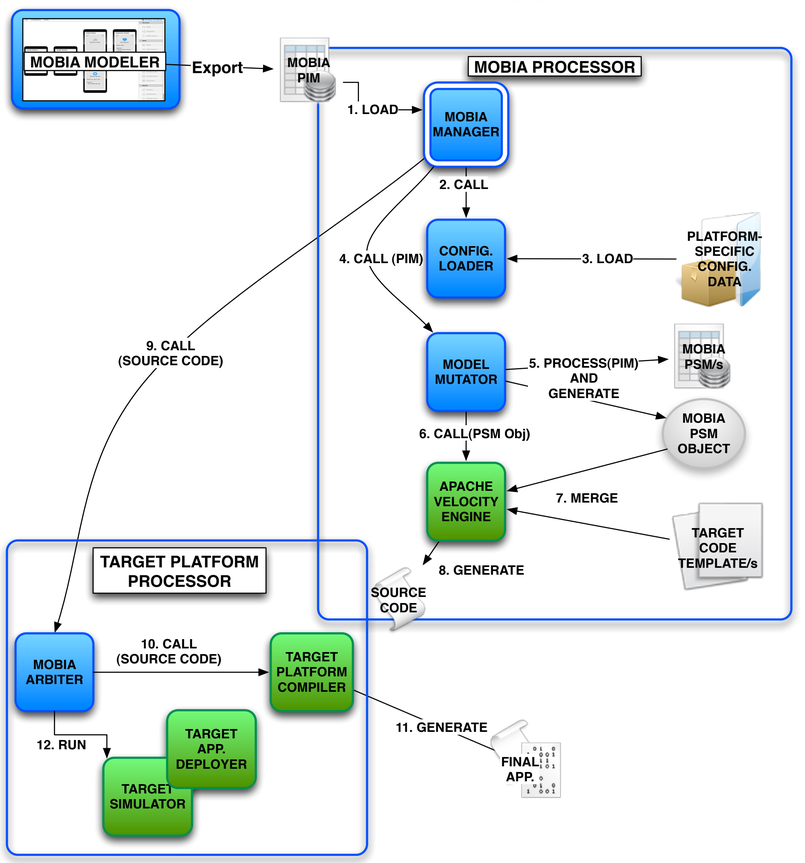
Component Configuration



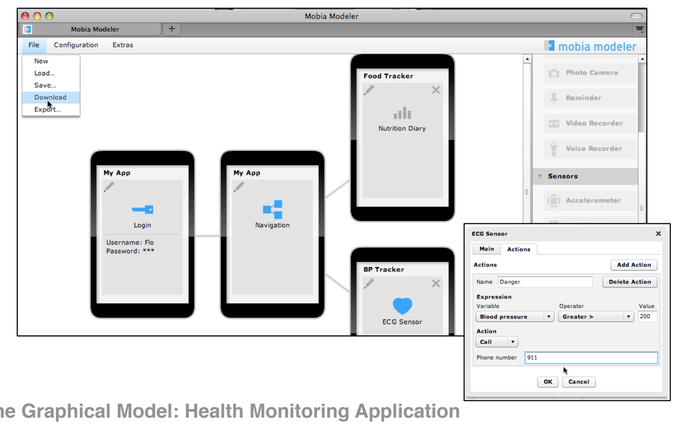
The Model



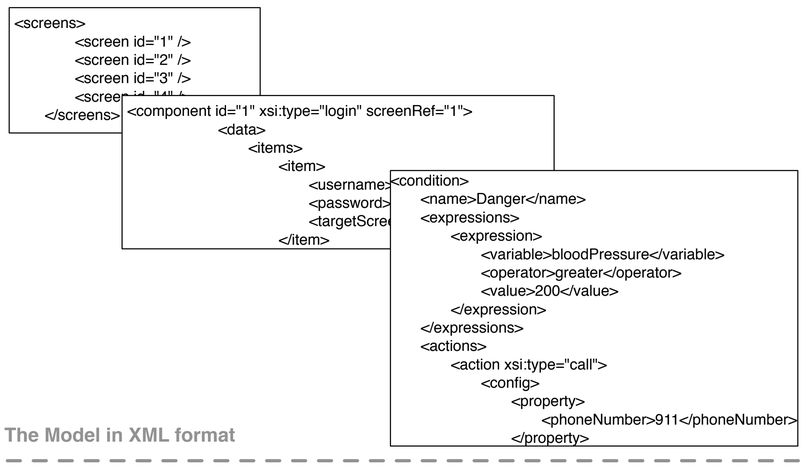
The Processor



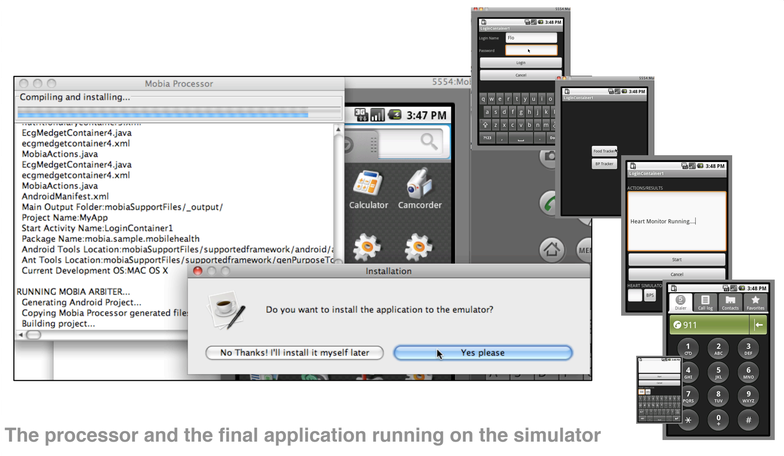
AN EXAMPLE



The Graphical Model: Health Monitoring Application



The Model in XML format



The processor and the final application running on the simulator

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