Virtual Telescope project development

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Abstract

We present current progress of the Virtual Telescope project development on Qt platform. The Virtual Telescope service has to allow users to get information about different sky objects, such as stars, constellations, planets, galaxies and others without using special astronomical equipment (telescopes, etc) but just by means of mobile device. In fact the service turns user's mobile device into personal telescope.

The process of development has been divided into three parts (three demo development). First demo allows user to get scheme of stars given the coordinates. Second demo provides user with possibility to get real image of sky object by its coordinate. And the third demo provides data from mobile device sensors (such as GPS, accelerometer, etc.) using Qt Mobility APIs.

Here we present process of combining these three demos into one application. We describe resulting application. Also we focus on technical issues we faced during the development and testing results.

Index Terms: Virtual Telescope, Mobile Service, Stars Guide, Qt, Qt Mobility.