Requirements

Android Based Situational Awareness: Moving Map

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Contents

Changes

Date	Description
September 13, 2012	Document started
September 13, 2012	Wrote Requirements
September 20, 2012	Created outline
September 24, 2012	Updated Requirements as per Gate 5 visit with Raytheon
October 4, 2012	Separate document created
October 15, 2012	Added Introduction
October 25, 2012	Updated Requirements, added Performance Requirements skeleton
November 7, 2012	Updated Performance placeholder

1 Introduction

This document will list the formal requirements we have gathered for the project.

2 Requirements

2.1 Functional

ID	Requirement	Priority
FR0	The system shall let the user pan the map by a dragging gesture	Objective
FR1	The system shall let the user zoom using an on-screen button	Threshold
FR2	The system shall let the user zoom using pinch gestures	Objective
FR3	The system shall let the user zoom using double tap	Objective
FR4	The system shall store map tiles on the device	Threshold
FR5	The system shall display map tiles which are stored on the device	Threshold
FR6	The system shall be able to pull map tiles which are stored on a local server and store them on the device	Objective
FR7	The system shall georeference the location of the device	Threshold
FR8	The system shall let the user center on current location	Objective
FR9	The system shall store multiple map types	Threshold
FR10	The system shall let the user choose the map type	Objective
FR11	The system shall store points of interest as a map overlay	Objective
FR12	The system shall display points of interest overlays	Objective
FR13	The system shall let the user choose which overlays are displayed	Objective
FR14	The system shall let the user add custom points of interest	Objective
FR15	The system shall let the user choose which overlay the custom point of interest is added to	Objective
FR16	The system shall let the user create new overlays	Objective
FR17	The system shall display a compass	Threshold
FR18	The system shall let the user toggle heading/north up	Threshold
FR19	The system shall let the user change default settings via a settings menu found in the menu bar	Threshold
FR20	The system shall let the user access a help menu via the menu bar	Objective

2.2 Non-functional

ID	Requirement
NR0	The system shall run on Android platforms running at least version 3.0 (Honeycomb)
NR1	The system shall receive GPS data from a local server or the device
NR2	The system shall display properly on either mobile phones or tablets
NR3	The system shall use modular code
NR3	The system shall use the Android usability conventions

2.3 Performance

ID	Requirement
PR0	To be determined