

Requirements

Android Based Situational Awareness: Moving Map
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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 |
| January 26, 2013 | Project Document Audit |
| February 5, 2013 | Remove Performance Placeholder until specified |

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 |
| FR21 | The system shall synchronize user added points of interest with support server | Threshold |
| FR22 | The system shall share user added points of interest with all devices connected to the same support server | Threshold |

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 |