

REQUIREMENTS AND TEST PLAN

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Requirements and Test Plan

Requirements and the respective test cases against them are defined under Redmine [project folder](#) and tracked through it. Below is a static version of it.

Functional requirement

As a user, I want the screen orientation to be changed automatically when the pivot monitor is rotated by more than 45 degrees.

Landscape Mode Test #1

Pre-condition : 1. Device is turned on and mounted on the pivot monitor.
2. Monitor is in potrait mode.

Test Steps : Rotate the pivot monitor's screen by more than 45 degrees.

Expected Outcome : Display orientation is changed to landscape mode.

Potrait Mode Test #1

Pre-condition : 1. Device is turned on and mounted on the pivot monitor.
2. Monitor is in landscape mode.

Test Steps : Rotate the pivot monitor's screen by more than 45 degrees.

Expected Outcome : Display orientation is changed to potrait mode.

Landscape Mode Test #2

Pre-condition : 1. Device is turned on and mounted on the pivot monitor.
2. Monitor is in landscape mode.

Test Steps : Rotate the pivot monitor's screen by no more than 45 degrees.

Expected Outcome : Display orientation shall remain same i.e Landscape Mode.

Potrait Mode Test #2

Pre-condition : 1. Device is turned on and mounted on the pivot monitor.
2. Monitor is in potrait mode.

Test Steps : Rotate the pivot monitor's screen by no more than 45 degrees.

Expected Outcome : Display orientation shall remain same i.e. Potrait Mode.

Memory Requirement

Program on rotation detector device shall use no more than 2 KBytes of RAM.

Platform Support Requirement

Python script that runs as a background process (daemon) shall run on Windows 10, and Ubuntu 16.0 and higher.