# Test Plan

## Sunrise Alarm Clock - Team 7

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Version 1.0

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|---|---|---|---|---|---|---|---|
| **Test Author: Julia Filipchuk** | | | | | | | |
| | **Test Case Name:** | Clock Alarm Verification | | | | **Test ID #:** | 1 |
| | **Description:** | *Testing clock and alarm functionality of the clock.*<br>- Must turn off alarm by user interaction<br>- Must display time<br>- Must have user set alarm<br>- Must have basic clock/alarm interactions: Set time. Set Alarm. Cancel Alarm.<br>- Must turn off alarm by user interaction | | | | **Type:** | ☐ white box<br>black box<br>☐ _____ |
| **Tester Information** | | | | | | | |
| | **Name of Tester:** | | | | | **Date:** | |
| | **HW/SW Version:** | | | | | **Time:** | |
| | **Setup:** | *Plug in device. No alarm set. In clock mode.* | | | | | |
| **STEP** | **Action** | **Expected Result** | **PASS** | **FAIL** | **N/A** | **Comments** | |
| 1 | Set Time to 10pm. | Time is adjusted and updated. Continues advancing after change. | | | | | |
| 2 | Set alarm time for 6am. Enable alarm. | Alarm is adjusted. Alarm enabled signal is showing. | | | | | |
| 3 | Set Time to 5.55am. | Time is adjusted and updated. Continues advancing after change. Alarm enabled signal is showing. Brightness increases to reflect new 5 minutes until wake. | | | | | |
| 4 | Wait for alarm. | Alarm triggers when clock reaches 6am. Alarm is audible. | | | | | |
| 5 | Turn off alarm. | Alarm is stopped with menu gesture. | | | | | |
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| 8 | | | | | | | |
| 9 | | | | | | | |
| | **Overall test result:** | | | | | | |

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| **Test Author: Julia Filipchuk** | | | | | | |
| | **Test Case Name:** | Brightness Control Verification | | | **Test ID #:** | 2 |
| | **Description:** | Testing that we have control of brightness. Step through the full range of brightness of the light. Verify gesture control at all brightness levels.<br>- Must have control of brightness. | | | **Type:** | ☐ white box<br>black box<br>☐ _____ |
| **Tester Information** | | | | | | |
| | **Name of Tester:** | | | | **Date:** | |
| | **HW/SW Version:** | | | | **Time:** | |
| | **Setup:** | *Plug in device. No alarm set. In clock mode.* | | | | |

| **STEP** | **Action** | **Expected Result** | **PASS** | **FAIL** | **N/A** | **Comments** |
|---|---|---|---|---|---|---|
| 1 | Enter Light Mode | Screen is flashing indicating adjustable percent brightness. Start at zero. | | | | |
| 2 | Increase the brightness through gestures to max. | Brightness gradually increases proportionally to the percent. | | | | |
| 3 | Decrease the brightness through gestures to off. | Brightness gradually decreases proportional to the percent. | | | | |
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| 5 | | | | | | |
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| 9 | | | | | | |
| | **Overall test result:** | | | | | |

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| **Test Author: Julia Filipchuk** | | | | | | | |
| | **Test Case Name:** | Brightness Alarm Verification | | | | **Test ID #:** | 3 |
| | **Description:** | *Testing that brightness is gradually adjusted before the alarm signal. Verify the alarm can be turned off.*<br>- Must have control of brightness.<br>- Must attempt to wake the user on time.<br>- Must turn off alarm by user interaction | | | | **Type:** | ☐ white box<br>black box<br>☐ _____ |
| **Tester Information** | | | | | | | |
| | **Name of Tester:** | | | | | **Date:** | |
| | **HW/SW Version:** | | | | | **Time:** | |
| | **Setup:** | *Plug in device. No alarm set. In clock mode.* | | | | | |
| **STEP** | **Action** | **Expected Result** | **PASS** | **FAIL** | **N/A** | **Comments** | |
| 1 | Set Alarm gradually increase for 20 minutes. | Adjustment is made in the menu. Back in clock mode after timeout. | | | | | |
| 2 | Set Time to 5.35am. | Time is adjusted and updated. Continues advancing after change. | | | | | |
| 3 | Set alarm time for 6am. Enable alarm. | Alarm is adjusted. Alarm enabled signal is showing. | | | | | |
| 4 | Wait until the alarm triggers. | Monitor gradual brightness increase. Verify sound of alarm at 6. | | | | | |
| 5 | Turn off alarm. | Alarm is stopped with menu gesture. | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| | **Overall test result:** | | | | | | |