

## PROJECT REQUIREMENTS

### Project Name

Mirror++

### Functional Requirements

**Smart Mirror Hardware:** Mirror should be a large enough size to easily gesture into and have an appealing design.

**User Interface:** Have a swiping-based layout, with users able to easily see widgets and their functionality.

**Weather Widget:** Display weather similar to a phone weather app, showing current weather details as well as future weather information.

**Schedule Widget:** Taking information from user account's calendar, display either a weekly calendar or daily schedule (TBD at a later date).

**Alarms Widget:** Display user's set alarms for the day.

**Connected Devices Widget:** Display connected IoT devices as separate widgets and give user the option to toggle commands (like on or off) in the devices.

### Technical/Performance Requirements

**On/Off Button:** Should shut off the entire device and restart it.

**Microsoft Kinect Camera:** Should not be too visible or distracting on the mirror but should be able to recognize user gestures and apply commands accordingly.

**Microsoft Kinect SDK:** Should be manipulated to recognize basic gestures and operate widgets accordingly.

**Security Features:** The gesture-tracking camera should not be accessible from outside the user's account.