*Florida International University*

*School of Computing and Information Sciences*

CIS 4911 - Senior Capstone Project

Software Engineering Focus

Feature Document

User Story #782

**Team Member:**

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**User Story** **Refactor Device in previous project code**

### Description:

* **As a developer I would like to** Refactor and redesign previous project code **so that I** can easier understand and add features in the future

### Acceptance Criteria:

1. redesign classes and header files
2. redesign structure
3. Group Device code into one namespace

**Use Case #782 – Refactor Device in previous project code**

Use Case:

Refactor device in previous project code

Details:

Actor: Developer

Pre-conditions:

* Project working on VS2015
* Program Running

Description:

* Use case begins anytime a developer needs to interact with the device code. This will affect the developers efficiency in working with the device .
* The user story ends when the developer can interact with the device in an easier and more efficient manner than before.

Post-conditions:

A developer can easier understand and add features to the device

Decision Support:

Frequency: Often. Developers need to easily understand code

Criticality: High. Enables developers to work more efficiently

Risk:Low. Team members need to get used to new structure

Constraints:

Reliability: Very Reliable.

Performance: No performance improvements

Supportability:

Must work with ACER Multitouch, Leap, RealSense and Eyex

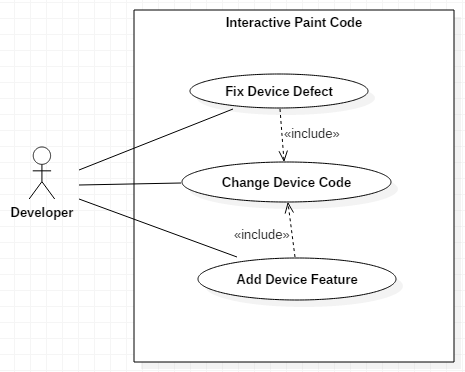
Modification History:

Owner: Eric Aguiar

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**Use Case Diagram**



**Unit Test**

Sunny Day Tests

Test Case: Devices Still Work

Test Purpose: Ensure that user can still use the devices to draw on screen after devices are refactored..

Test Setup:

⦁ run program

Test Output:

Every line drawn correctly

Expected Output:

After testing all integrated devices, i.e. the RealSense, Leap and Eyex can still contribute to drawing, the screen should draw correctly

**Integration Test**

Devices can still be used to draw in the application, i.e. the RealSense, Leap and Eyex can still contribute to drawing