Technical Manual Leap Motion

HIT3061 – Software Team Project, Semester 2, 2013

**Leap Motion Project**

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**Fall**

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**Table 1. Document Change Control**

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## Overview

The purpose of this document is to help user easily for install the web application to their computer, required application and source code, required environment and source code overview for further development.

## Technical Requirements

(This section may be replaced by WFLC algorithm research)

## Software Requirements

**Application Requirements**

**Tested Browser**

Internet Explorer version 9 or above

Firefox version 15 or above

Google Chrome version 16 or above

Safari version 6

**Leap Motion device driver** Mac / Windows

**Source Code** HTML and Javascript

## Physical requirements

### Window Smudge

LeapMotion device uses camera sensor to capture user’s palm position. To make sure that the device works probably; we need to apply following steps to clean the outside of the controller:

* Unplug the cable.
* Then use a dry cloth to wipe the surface. Do not use detergents, abrasive cleaners or other cleaners, which may scratch the surface, and harm performance. Do not allow your controller to become wet.
* Plug the cable and test it on the application

### Lighting Conditions

According to technical requirements from LeapMotion website, the controller can achieve its best performance in an Energy efficient lights such as florescent bulb and without any external infrared light sources.

### Hardware Requirements

LeapMotion device requires USB connection to interact with computer system. However, It will not functioning in case connecting to a USB hub or a PC via another peripheral device such as keyboard.

## Integration Requirements

* Browser software needs to be installed and ready to open
* LeapMotion driver was installed
* LeapMotion Device has connected to the PC via USB port
* HTML and Javascript source code of the application

## Instruction for Installation

1. Copy all the file on “Leap Motion” folder to your working folder
2. Install Leap Motion device driver for the computer to recognize the device
   1. Windows user: click on “device\_driver/Leap\_driver\_for\_windows.exe” file
   2. Macintosh user: click on “device\_driver/Leap\_driver\_for\_mac.dmg” file
3. Install Web browser:
   1. If your computer doesn’t meet browser prerequisite, in order to install required browser application:
      1. Windows: Locating to “Browser ” folder and double click on “chrome\_installer\_windows.exe” file
      2. Macintosh: Locating to “Browser ” folder and double click on “chrome\_installer\_mac.dmg” file
4. To run the application, locate to “source\_code” folder
   1. Double click on “index.html” file to run the application