STEVENS
INSTITUTE of TECHNOLOGY
THE INNOVATION UNIVERSITY

LIVE MONITORING SYSTEM

EE551B

Team Members	**Stevens ID**
Hatim Alhazmi	*10421308*
Mofaddal Alyamani	*10409805*
Mohammad Ghunaim	*10422291*
Mohsen Alhazmi	*10404800*

APRIL 11, 2018

1. **Project scope and deliverable:**

   To design a live monitoring system that would include both hardware and software in order to alert the user of suspicious attempts of break-ins in order to improve the level of properties' security. For example, if someone break into x home, both the door and the motion sensors will respond and take some actions such as taking footage, sending emails to the home owner.

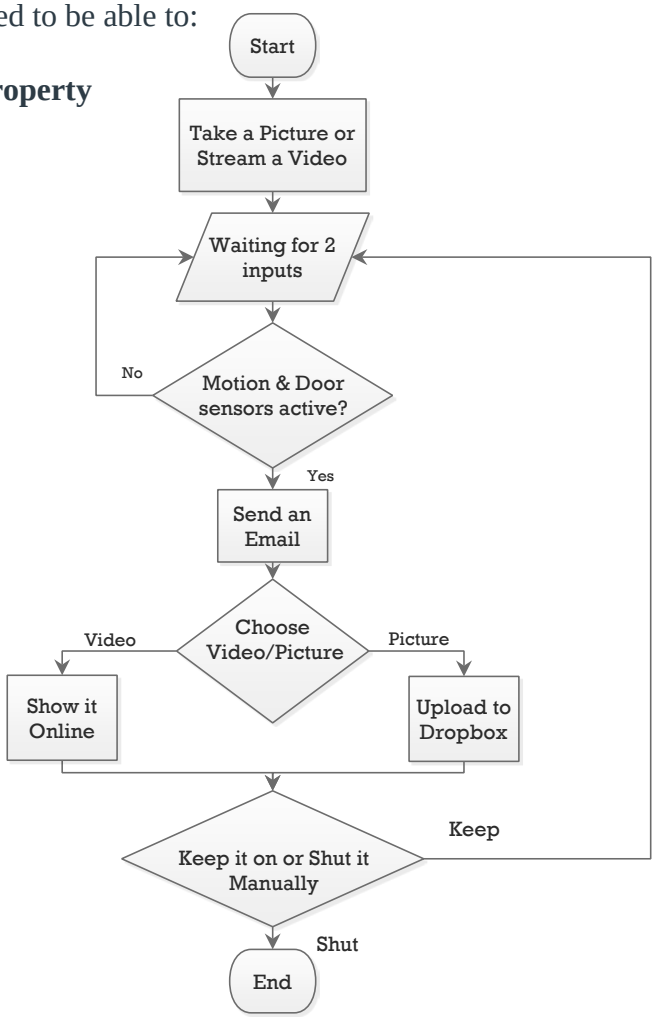
   By successfully implementing this idea, user is expected to be able to:

   - **Observe, protect, and manage the private property**

     Stay alert by monitoring home all time.

   - **Increase trust and performance**

     Provide accessibility & availability all the time



2. **Project To-do List:**

   - Checking the door status through a Magnetic Contact Switch (Door Sensor) and Motion Sensor to determine whether the door is opened or not.
   - Using Raspberry Pi Camera to take pictures or to stream a video depends on the system settings you choose.
   - Storing live shots in a Dropbox account
   - Live stream will be available on a website
   - Options to choose between capturing pictures or streaming video via a web page.
   - Sending email notifications in case of suspicious actions.
   - Programming a Python code and using the necessary packages to make the project work.

3. **Expected Python packages:**

   Django, Flask, RPi.GPIO, glob, dropbox, other packages are expected

4. **Github Page Link:**

   https://github.com/pyprojects1/