

Scheduling Check on Monday, April 29th -- 9am

**key:** [complexity -- (business value / complexity)]

**Dependency** - Features that are depended upon by other features.

**Optional** - Feature is NOT included in the base requirements from customer for system.

**Sections Most Attention is Focused:**

1. ~~3.1.1~~ [1—10] \*~~Dependency~~  
System shall use a USB webcam feed to detect motion (and subsequently decide when a trespasser is present), capture images of the motion, and record the motion.
2. ~~3.1.3a~~ [5—2]  
System shall be able to detect motion.
3. ~~3.1.2~~ [5—2] \*~~Dependency~~  
System shall be able to detect motion with the images processed by the system retrieved from the USB webcam feed
4. ~~3.1.4~~ [2—5] \*~~Dependency~~  
System shall save an image of initial motion capture.
5. ~~3.1.3b~~ [4—2.5]  
System shall record video footage of detected motion until a limit is reached
6. ~~3.1.5~~ [4—2.5] \*~~Dependency~~  
System shall save video recordings to the web hosting service Dropbox
7. ~~3.3.2~~ [2—4.5]  
User(s) will receive details concerning the captured motion
8. ~~3.3.1~~ [2 - 4.5]  
Emails are sent to user defined list of email addresses
9. ~~3.3.3~~ [2—4.5] \*~~Optional~~  
Software will be able to record a text description of an event whenever motion is detected
10. ~~3.2.2~~ [2—4] \*~~Optional~~  
The system shall present an image of the webcam feed
11. ~~3.2.1~~ [3—2.66] \*~~Dependency~~  
User will access all available options concerning the software through a Graphical user interface
12. ~~3.4.1~~ [1—7] \*~~Optional~~  
System shall allow user to add, edit, delete email addresses from system that will receive motion detection alerts
13. ~~3.2.6~~ [1 - 8] \*~~Optional~~  
GUI main screen will display the details of the last recorded event.
14. ~~3.2.5~~ [2 - 4]  
User will be given direct access to full software documentation.
15. ~~3.2.4~~ [1—8] \*~~Optional~~  
Anytime user does not feel able to complete a task, a “Help” option is always provided
16. ~~3.1.6~~ [2 - 5]  
System shall be able to shutdown when a motion continues after a specified amount of time

17. 3.1.6.a [3 - 3.33]

If the system has to halt for reaching the excessive time limit, the system shall inform the user to manually restart the system.

18. 3.2.3 [1 - 8] \*Optional

The system shall provide a way to pause or start/stop recording

19. 3.1.7 [3 - 3.33] \*Optional

System shall take in parameters concerning extended periods of motion and their alert notifications.

20. 3.4.2 [3 - 2.33]

User may adjust a tolerance that determines when to record based on how much motion is detected

21. 3.4.3 [3 - 2.33] \*Optional

User may adjust a tolerance that determines when to record based on the length of disruption seen

**Sections Least Attention is Focused:**

**Second Sprint:**

Completed tasks by description:

- Created the program main executable script to start software
- A graphical user interface is presented to the user displaying a live video feed of the webcam
- The GUI display gives the user a selection of 3 buttons where the user has the option to (1) go to an "Email settings" window where he/she can add, edit or delete email addresses. (2) Show a window displaying a list of all previous recordings of the system. System will also provide a button for (3) "Help" in case user is having troubles with the software and they need help with the main screen.
- System is able to detect motion using the webcam.
- When motion is detected, system begins to record video footage and cease when no more motion has been detected.
- Once video file is created, video footage and initial photo of the motion is uploaded to Dropbox hosting service.
- System retrieves Dropbox file location URL for the photo and video footage and then constructs a video preview web page for that video.
- In video preview web page, user may watch the video footage and download the footage directly from the page.
- Initial motion photo, length of motion detection, along with a flag labeling the motion concern is email to the email addresses stored in the system.

Reasons for not accomplishing everything:

**Third Sprint:**

Plans:

- Create User Manual for the software system
- Send email to all email addresses defined by user
- Attempt to fix inefficiencies (conversion time, more threading may be solution)
- Fix file incompatibilities

- Add details to the email: date and time of motion detected, flags, duration.
- Work on thresholds and user-adjusted settings (lower importance)
- Create installation file for software that allows anyone to install software on Windows Vista/7 machine. (Optional, last thing to do/lower importance)

We understand the goals we have outlined. We have solutions in mind for each one, but may lack the time at completing all of them. This final sprint will be finishing features based on how critical they are to the functioning of the software (User manual is excluded and is of high priority).