

Usage Scenarios:

Title: Altering Thresholds

The user wants to only receive emails if the motion detected is large (in size) because he feels he is getting too many emails involving small animals and leaves. He has also noticed that there is one area in the detection area that has almost constant motion. He specifies that he wishes to change the motion detection settings. He then increases the size tolerance to 7. He also increases the duration threshold to 60 seconds. A confirmation email is then sent that contains the changes he has made. He then specifies that he would like to define a new “dead area,” where any motion will be ignored. The user is shown the image taken at the start of the day and he selects the “dead area.” Before the user leaves, he decides to do a little tidying up. He then manually updates the base image.

Requirement Statements:

1. The system shall notify the user of motion via email.
2. The system shall allow the user to set the tolerance of the size of the motion (leaf blowing vs a human) from 0 (no tolerance) to 10 (high tolerance).
3. The system shall allow the user to set the tolerance of the duration of the motion in seconds (up to 2 minutes).
4. The system shall email the user with recent changes to the settings of the tolerances.
5. The system shall allow the user to select “dead areas” where motion is to be ignored.
6. The system shall automatically take an image at the beginning of each day to be used as a base image.
7. The system shall automatically update the base image every 10 to 20 minutes to cope with changes in lighting.
8. The system shall not update the base image if it has detected motion.
9. If the system detects motion, the base image will not be updated until the motion has stopped.
10. The system shall allow the user to manually update the base image if the user knows the surroundings have changed.

Title: Adding Emails

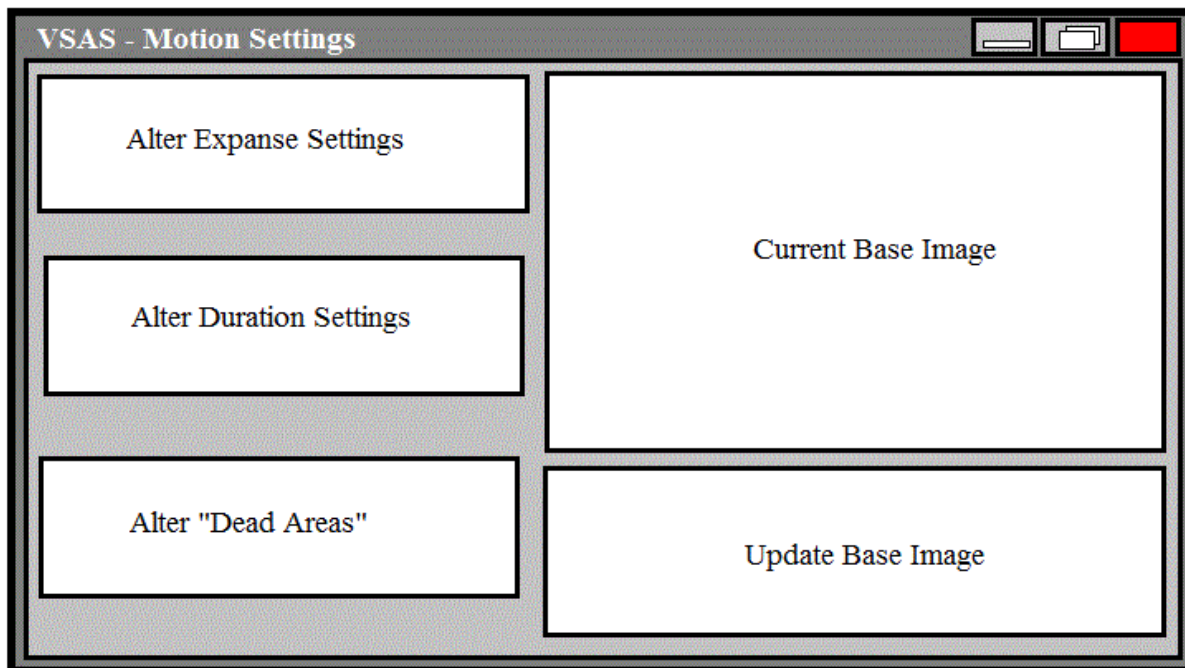
The user is going on a much deserved vacation and one of his friends has agreed to keep an eye on the user’s property. He would also prefer not to receive emails while on vacation. However, he doesn’t really know how to accomplish this. The user specifies that he would like to view help. He specifies that he would like help with email configurations. The user then returns to the main screen and specifies that he would like to alter the email settings. He first adds his friend’s email address. Then he specifies that he would not like to receive emails to his (the primary) address.

Requirement Statements:

1. The system shall provide a help menu to the user covering all details the user needs to configure a feature.
2. The help for email configuration shall outline the process of adding an email address.

3. The help for email configuration shall include how to disable, but not delete an email address.
4. The system will provide a way in which the user to return the main screen.
5. The system shall allow the user to configure/reconfigure email settings.
6. The email settings the user is allowed to alter are: primary email, additional emails, to which emails get sent, and what information is sent.
7. The system shall email the selected addresses the following alert information: an image marking the position of the motion, the severity of the detected threat, a link to the video of the threat, and other user-specified information.

Prototype



Requirement Statements

1. The system shall allow the user to edit motion settings.
2. The system shall use a base image to detect motion.
3. The system shall allow the user to manually update the base image.
4. The system shall allow the user to add to or subtract from the dead areas.
5. The system shall display the duration settings, either as a numeric value or as a relative position.
6. The system shall display the expanse settings, either as a numeric value or as a relative position.
7. The system shall allow the user to set the duration settings.
8. The system shall allow the user to set the expanse settings.