VSAS - Video Surveillance Alert System

Software Requirements Specification

Software version(s): 0.0 - 1.0

2013

Abu Audu, Levi Bostian, Taylor Brown, Kyle Mueller, Kristen Nielsen

Prepared for
CS 2720: Software Engineering
Fall 2012

Revision History

Date	Description	Author	Comments
2-19-13	Version 1	Team	First Revision

Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

Signature	Printed Name	Title	Date
	Stephen Hughes	Instructor CS2720	

Table of Contents

1. Introduction

The introduction to the Software Requirement Specification (SRS) document should provide an overview of the complete SRS document. While writing this document please remember that you are telling ***what the system must do*** *– so that designers can ultimately build it. Do not use this document for design!!!*

1.1 Purpose

To establish the design and functionality of our video surveillance software. This document will be used by: developers, customers, managers, designers, QA testers, critics, etc.

1.2 Scope

1. Video Surveillance Alert System (VSAS).
2. This system is built around detecting motion through a webcam. When motion is detected, video is recorded and uploaded to a hosting provider. E-mail notification is sent to the user containing a snapshot of detected motion and a link to the recorded video, along with motion characteristics. User will be able to set tolerance of motion detection, i.e. expanse and duration.
3. Provide continuous surveillance of a remote location for personal security purposes.

1.3 Definitions, Acronyms, and Abbreviations

1. VSAS - Video Surveillance Alert System
2. Tolerance - Threshold for which motion is considered a security risk.
3. Expanse - Describing the size of the detected motion.
4. Duration - Describing the time of the detected motion.
5. Hosting Provider - Online storage base
6. Dead Areas - Areas with continuous motion to be ignored by alert system.

1.4 References

To be provided as necessary.

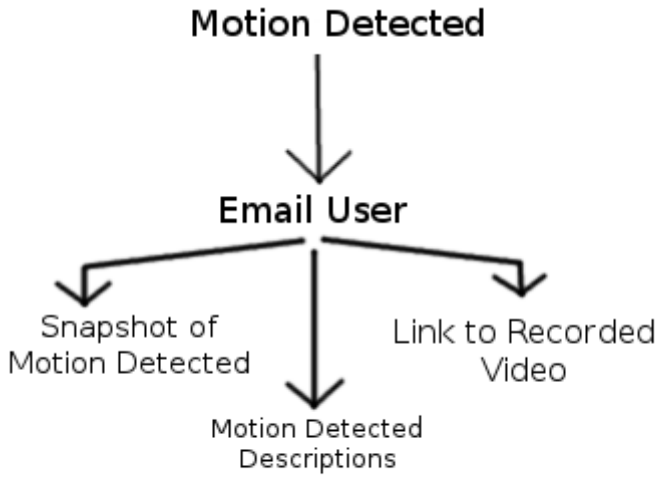
2. General Description

Describe the general factors that affect the product and its requirements. This section does not state specific requirements. Instead, it provides a background for those requirements, which are defined in section 3, and makes them easier to understand. In a sense, this section tells the requirements in plain English for the consumption of the customer. Section3 will contain a specification written for the developers.

2.1 Product Perspective

VSAS is a stand-alone desktop application personalized for our dedicated customer to meet his own security needs.

2.2 Product Features



2.3 User Classes and Characteristics

VSAS is aimed at one moderately technical user. User will configure software specifications as frequently as 3 weeks. Software will run continuously between user interactions. There will be no security or administrative levels implemented in the software.

2.4 Operating Environment

VSAS is intended for use on a stand-alone desktop PC, which requires Python (automatically installed), appropriate webcam hardware, and an active local internet connection. VSAS will be aimed at operating on Windows 7 and Windows Vista PC's.

2.5 User Documentation

User manual documentation will be provided with software, along with access to a web resource. Technical support will be given through an online FAQ and support ticket submission forms.