APPLICATION

FOR

UNITED STATES LETTERS PATENT

**AUTOMATED EVENT TRACKING AND ALERT SYSTEM**

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**TECHNICAL FIELD**

1. The embodiments generally relate to the field of automated event response systems.

**BACKGROUND**

1. In the event of violence, attacks, or crimes, a victim or bystander may rely on their smartphone to capture photos, record videos, or alert authorities of the event. This is a laborious process that may waste precious time in reporting the incident including capturing data such as taking a photo or recording video; selecting or designating a recipient; and texting, emailing; or sending the captured data. Often violence occurs unannounced from the moment you walk in or out of the house, work, or public places. In most cases, the victim only has a couple of seconds to seek help making the capture and transmission of relevant data especially important. A solution is required to overcome the shortcomings of existing systems and methods related to reporting crime, violence, events, or the like.

**SUMMARY**

1. This summary is provided to introduce a variety of concepts in a simplified form that is further disclosed in the detailed description of the embodiments. This summary is not intended to identify key or essential inventive concepts of the claimed subject matter, nor is it intended for determining the scope of the claimed subject matter.
2. The disclosed system aids and solves specific crimes on potential victims of violence. The disclosed system includes an automated program or application written for smartphone users coupled with the optional smartphone case with corresponding hardware to support the automated program.
3. The disclosed system allows for tracking the location of possible victims and transmission of up-to-date smartphone data.
4. Other illustrative variations within the scope of the invention will become apparent from the detailed description provided hereinafter. The detailed description and enumerated variations, while disclosing optional variations, are intended for purposes of illustration only and are not intended to limit the scope of the invention.

**DETAILED DESCRIPTION**

1. The specific details of the single embodiment or variety of embodiments described herein are to the described system and methods of use. Any specific details of the embodiments are used for demonstration purposes only and no unnecessary limitations or inferences are to be understood from there.
2. It is noted that the embodiments reside primarily in combinations of components and procedures related to the system. Accordingly, the system components have been represented where appropriate by conventional symbols in the drawings, showing only those specific details that are pertinent to understanding the embodiments of the present disclosure so as not to obscure the disclosure with details that will be readily apparent to those of ordinary skill in the art having the benefit of the description herein.
3. In this disclosure, the various embodiments may be a system, method, apparatus, software application for a mobile device, or computer program product at any possible technical detail level of integration. A computer application product can include, among other things, a computer-readable storage medium having computer-readable program instructions thereon for causing a processor to carry out aspects of the present disclosure.
4. As used herein, the term “user(s)” may refer to individuals accessing the system to develop, release, and promote media such as music.
5. As used herein, “GUI” may refer to any graphical user interface that includes at least one interactive component between a user and the application. A GUI may include a plurality of fillable fields, clickable buttons, database displays, or the like. A GUI maybe adaptable for use on several devices such as computers, phones, smart devices, tablets, laptops, televisions, or the like.
6. In this disclosure, terms “store,” “storage,” “data store,” “data storage,” “database,” and substantially any other information storage component relevant to operation and functionality of a component are utilized to refer to “memory components,” which are entities embodied in a “memory,” or components comprising a memory. Those skilled in the art would appreciate that the memory or memory components described herein can be volatile memory, nonvolatile memory, or both volatile and nonvolatile memory. Nonvolatile memory can include, for example, read only memory (ROM), programmable ROM (PROM), electrically programmable ROM (EPROM), electrically erasable ROM (EEPROM), flash memory, or nonvolatile random-access memory (RAM) (e.g., ferroelectric RAM (FeRAM). Volatile memory can include, for example, RAM, which can act as external cache memory. The memory or memory components of the systems or computer-implemented methods can include the foregoing or other suitable types of memory.
7. Generally, a computing device, such as a personal computer or mobile smart device, will also include, or be operatively coupled to receive data from or transfer data to, or both, one or more mass data storage devices; however, a computing device need not have such devices. The computer readable storage medium (or media) can be a tangible device that can retain and store instructions for use by an instruction execution device. The computer readable storage medium can be, for example, an electronic storage device, a magnetic storage device, an optical storage device, an electromagnetic storage device, a semiconductor storage device, or any suitable combination of the foregoing. A non-exhaustive list of more specific examples of the computer readable storage medium can include: a portable computer diskette, a hard disk, a random access memory (RAM), a read-only memory (ROM), an erasable programmable read-only memory (EPROM or Flash memory), a static random access memory (SRAM), a portable compact disc read-only memory (CD-ROM), a digital versatile disk (DVD), a memory stick, a floppy disk, a mechanically encoded device such as punch-cards or raised structures in a groove having instructions recorded thereon, and any suitable combination of the foregoing. In this disclosure, a computer readable storage medium is not to be construed as being transitory signals per se, such as radio waves or other freely propagating electromagnetic waves, electromagnetic waves propagating through a waveguide or other transmission media (e.g., light pulses passing through a fiber-optic cable), or electrical signals transmitted through a wire.
8. Any connection between the components of the system may be associated with a computer-readable medium. For example, if software is transmitted from a website, server, or other remote source using a coaxial cable, fiber optic cable, twisted pair, digital subscriber line (DSL), or wireless technologies such as infrared, radio, and microwave, then the coaxial cable, fiber optic cable, twisted pair, DSL, or wireless technologies such as infrared, radio, and microwave are included in the definition of medium. As used herein, the terms “disk” and “disc” include compact disc (CD), laser disc, optical disc, digital versatile disc (DVD), floppy disk, and Blu-ray disc; in which “disks” usually reproduce data magnetically, and “discs” usually reproduce data optically with lasers. Combinations of the above should also be included within the scope of computer-readable media. In some embodiments, the computer-readable media includes volatile and nonvolatile memory and/or removable and non-removable media implemented in any type of technology for storage of information, such as computer-readable instructions, data structures, program modules, or other data. Such computer-readable media may include RAM, ROM, EEPROM, flash memory or other memory technology, optical storage, solid state storage, magnetic tape, magnetic disk storage, RAID storage systems, storage arrays, network attached storage, storage area networks, cloud storage, or any other medium that can be used to store the desired information and that can be accessed by a computing device. Depending on the configuration of the computing device, the computer-readable media may be a type of computer-readable storage media and/or a tangible non-transitory media to the extent that when mentioned, non-transitory computer-readable media exclude media such as energy, carrier signals, electromagnetic waves, and signals per se.
9. In some embodiments, the system is world-wide-web (www) based, and the network server is a web server delivering HTML, XML, etc., web pages to the computing devices. In other embodiments, a client-server architecture may be implemented, in which a network server executes enterprise and custom software, exchanging data with custom client applications running on the computing device.
10. The disclosed system combines both software and hardware to provide automated commands having a series of sub-routine programs to be executed, resulting in collected smartphone data ready to be shared.
11. FIG. 1 depicts a system that executes individual sub-routines calling for communicating collected data. The system may be activated by voice command, pressing a predetermined button, or automatically. Subroutines may be called and executed. Data may be recorded as audio, video, and map or GPS location data from a smart device such as a cell phone or smart phone.
12. The system may scan and locate a closest communication signal, such as a cellphone tower, for connection for wireless communication. In the event of lack of data signal, or lack of wireless communication signal, the system may store collected data to be communication upon reconnection to a wireless communication signal. In the event of a located wireless communication signal, all data are processed to be sent to predetermined recipients. Collected data may be sent to pre-selected contacts via Text messaging (SMS) and Email (SMTP) programs.
13. Using a silent voice call and email feature, the system may check for a dial tone then a voice call connection may be made to an emergency operator. The system issues a 4-second delay prior to playing a pre-configured audio announcement such as, but not limited to, "I have been assaulted and can't talk; I'm sending you the recorded assault video, audio, and map. Please check your email". The silent voice call will be disconnected.
14. The system may also, prior to, simultaneously with, or after the silent voice call and email feature, execute an alarm function including using a smart device display or flashlight feature to generate a strobe light flashing and high-pitch audible noise via on-device speakers.
15. The system may also systematically delete the folder(s) containing previously recorded audio, video, and map coordinates to prepare for a new set of data. The technique may prioritize 5-10 second recordings for faster transmission for intended recipients.
16. In the event that device battery power lower than 20%; the system may terminate any number of programs, applications, or subroutines on the device to provide the remaining smartphone power to the system. While the victim is incapacitated, the remaining 20% power will be used by WIFI for tracking purposes.
17. According to some embodiments, the system may routinely check for the presence or absence of new data captured or recorded by the system. If new data is available, the system may repeat the steps of verifying wireless communication connection, executing the alarm function, executing the silent voice call and email feature, and so on. In this way, the system may be continuously self-monitoring.
18. According to some embodiments, the system may incorporate a smart device case comprising a PCB, a power source such as an onboard battery, a system activation button and function, reset button and function, Bluetooth microchip and function, and charging port. The case may be paired with an in operable communication with the smart device via short-range wireless technology or other similar connection means. Case charging may occur via a reversed-charging method. An On-the-Go function may allow the smartphone case to charge its lithium battery via short-range wireless technology.
19. Several different embodiments have been disclosed herein, in connection with the above description and the drawings. It will be understood that it would be unduly repetitious and obfuscating to describe and illustrate every combination and subcombination of these embodiments. Accordingly, all embodiments can be combined in any way or combination, and the present specification, including the drawings, shall be construed to constitute a complete written description of all combinations and subcombinations of the embodiments described herein, and of the manner and process of making and using them, and shall support claims to any such combination or subcombination.
20. An equivalent substitution of two or more elements can be made for anyone of the elements in the claims below or that a single element can be substituted for two or more elements in a claim. Although elements can be described above as acting in certain combinations, and even initially claimed as such, it is to be expressly understood that one or more elements from a claimed combination can, in some cases, be excised from the combination and that the claimed combination can be directed to a subcombination or variation of a subcombination.
21. It will be appreciated by persons skilled in the art that the present embodiment is not limited to what has been particularly shown and described hereinabove. A variety of modifications and variations are possible considering the above teachings without departing from the following claims.

**CLAIMS**

I/we claim:

1. A method comprising:

receiving an activation command;

collecting data from a smart device including at least one of camera data, audio data, or GPS data;

scanning for a closest communication signal;

connecting to the closest communication signal;

storing the at least one of camera data, audio data, or GPS data locally on the smart device;

sending the at least one of camera data, audio data, or GPS data to at least one predetermined recipient;

communicating at least one of a pre-recorded audio clip or text data to an emergency operator;

executing an alarm function comprising using a smart device display or flashlight feature to generate a strobe light flashing or high-pitch audible noise via on-smartphone speakers; and

systematically deleting the at least one of camera data, audio data, or GPS data locally on the smart device.