

Operations Memorandum

To:	New Haven Board of Education Finance and Operations Committee
From:	Michael J. Pinto, COO
Date:	August 3, 2020
Re:	F&O Agenda Item Request/Approval of Agreement for Invictus Apps,
	Inc. for Prepared App

Contractor Name: Invictus Apps, Inc.

Contractor Address: 470 James Street, New Haven, CT 06513

Is the contractor a Minority or Women Owned Small Business? N/A

Renewal or Award of Contract/Agreement?

Approval is requested for the award of contract agreement by and between the New Haven Board of Education and Invictus Apps, Inc. for the Prepared App to communicate schools with first responders during an emergency from July 1, 2020 to June 30, 2021.

Total Amount of Contract/Agreement and the Hourly or Service Rate:

In an amount not to exceed \$67,500.00.

Contract or Agreement #:

Funding Source & Account #: 2020-2021 Operating Budget

190-47000-56652

Key Questions: (Please have someone ready to discuss the details of each question during the Finance & Operations meeting or this proposal might not be advanced for consideration by the full Board of Education):

1. What specific service will the contractor provide:

Invictus Apps, Inc provides school districts with the Prepared App. Prepared's emergency buttons ensure that threats are communicated to first responders in real time; so they can get on scene faster to provide assistance for an emergency situation. The district will have the ability to send mass notifications with predetermined templates and call 911 all within seconds. With in-app chat, you can quickly contact individuals. Be on the same page with your district, and first responders throughout the entire emergency. Send critical information to police, request for first-aid help, staff can input safe or in danger status, and more all within the app.

- 2. How was the contractor selected? Quotes? RFP? Sealed Bid or Sole Source? <u>Please</u> <u>describe the selection process</u> including other sources considered and the rationale for <u>selecting this method of selection</u>: Sole Source
- 3. If this is a renewal with a current vendor, has the vendor's performance been satisfactory under the existing contract or agreement? N/A
- 4. If this Contract/Agreement is a Renewal has cost increased? If yes, by how much? N/A
- 5. If this Contractor is New has cost for service increased from previous years? If yes, by how much?
- 6. Is this a service existing staff could provide? Why or why not? Invictus App, Inc. is the only known system to offer the real-time heatmap created by a dynamic updating interface in schools. This is a patent-pending functionality that this comes holds alone.

From:	Michael Chime
То:	PINTO, MICHAEL; Chief Reddish
Subject:	Sole Source Letter
Date:	Thursday, May 21, 2020 10:42:07 AM
Attachments:	2019.06.14 Filing Receipt INVM-001-1 - 4841-3844-1114 v 1.pdf
	Sole Letter - Sent to Michael Pinto (New Haven) .pdf
	PREPARED Patent Specification - 4846-5169-9097 (2).pdf

CAUTION:

This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Michael and Chief,

Attached is our sole source letter. I also included the specs for our patent application & the application receipt for your review.

For all competitors generally, we are the only system to offer the real-time heatmap created by a dynamic updating inference in schools. This is a patent-pending functionality that we alone provide (seen below). However, here is a list of potential competitors that you can reference.

School Pass (Found <u>Here</u>) - Major differentiators: They do not provide instant messaging, customization capabilities, or integration system for first responders.

Catapult (Found <u>Here</u>) Major differences: Catapult only uses a website to communicate information. This means in an emergency situation you will need to depend on a website to load to send or receive information.

Hardwire Solutions (Found <u>Here</u>, <u>Here</u>, <u>& Here</u>) Major differentiators: Hardwire systems lack the ability to send updates or clear communication to all of the important individuals during an emergency. Administrators, teachers, district admins, and first responders need live information in a crisis. Also, the cost of implementing hardware.

Let me know if you have any questions,

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Michael Chime

Chief Executive Officer & Co-Founder

Invictus Apps Inc.

Provider of the PreparedTM Emergency Communications Mobile App & Service

Mail: contact@preparedapp.com, michael@preparedapp.com

Web: <u>https://www.preparedapp.com</u>



MEMORANDUM bureau of purchases city of new haven

Michael V. Fumiatti, Purchasing Agent 200 Orange Street, New Haven, Connecticut 06510 Telephone (203) 946-8201 Facsimile (203) 946-8206



SLSRC #29220X

DT: June 16, 2020

- TO: Michael Pinto Board of Education
- FR: Michael V. Fumiatti, Sr Purchasing Agent

RE: Sole Source request – Invictus Apps, Inc., developer "Prepared".

I have received and reviewed your sole source request for the above referenced vendor and purpose. This is a unique application that was designed locally and is the only known system to offer the real-time heatmap created by a dynamic updating inference in schools. This is a patent-pending functionality that this comes holds alone.

Therefore, pursuant to Section 74(d)(i) of the City Charter, I hereby designate the above vendor as the "Sole Source" vendor for the above referenced purpose. Please include this sole source number in the vendor sourcing notes of your requisition.

While all else remains the same, this Sole Source does not expire.

Please note any non-competitively bid contract which is \$100,000.00 or greater may require Board of Alderman approval.

Any questions, please feel free to contact me @ x8207.

cc: Salina Manning – BOE Accounts Payable File

SYSTEM, METHOD, AND APPARATUS FOR REPORTING A THREAT TO AN ESTABLISHMENT

TECHNICAL FILED

The present disclosure generally relates to systems and corresponding methods and apparatus for managing an impending situation, and more particularly to systems and corresponding methods and apparatus for managing an impending threat to a facility or an institution.

BRIEF SUMMARY

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The present disclosure generally relates to managing an impending threat to an 10 institution, such as an educational institution. In one aspect, a system for managing an impending threat to an educational institution can comprise at least one processor, and a plurality of graphical user interfaces, and a controller. The controller can be coupled to the processor and the graphical user interfaces and configured to present to each member of the educational institution a graphical user interface. The graphical user interface presented to any given

15 member of the educational institution can be selected by the controller based on a profile of that member. The graphical user interface presented to each user can comprise at least one threatreporting user interface configured for reporting an impending threat. The at least one threat reporting user interface can comprise one or more graphical elements for reporting the impending threat. The controller, in response to reporting of the impending threat via the threat-

20 reporting user interface, can dynamically update the user interface presented to the user. The update to the user interface of each member can be based on the profile of that member.

In another aspect, a system for managing an impending threat to an educational institution can comprise at least one processor and a controller coupled to the processor. The controller can be configured to present to each of a plurality of members of the educational institution a user interface based on a profile of that member. The controller can be further configured to dynamically update the user interface in response to reporting of an impending threat and/or one or more actions taken by one or more of the members following the reporting of the threat.

In other examples, the aspects above, or any system, method, apparatus described herein 30 can include one or more of the following features.

The members can have at least one of the following profiles: a student profile, a teacher profile, an administrator profile, and a parent profile. The controller can be in communication with a database that stores these profiles and be configured to access the database and/or receive the profiles from the database.

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In some embodiments, the updated user interface that is presented to a member can include one or more graphical elements for allowing said member to react to said threat report. The one or more graphical elements of the updated user interface can allow the member to perform at least one of the following actions: confirming the reported threat, requesting assistance, initiating a threat-management protocol, sending information, and marking safety.

10 In response to reporting of the threat, the controller can present to a teacher member of the educational facility a user interface that includes a plurality of graphical elements for performing at least one of the following functions: confirming the threat report, providing information, and/or requesting assistance. Alternatively or additionally, in response to reporting of the threat, the controller can present to an administrator member of the educational facility a

15 user interface that comprises graphical elements configured to allow the administrator to initiate at least one of: a lock-down, an evacuation, a shelter-in-place protocol, a silent lock-down. Upon initiation of any of these actions by the administrator, the processor can effect transmission of a notification indicative of the action initiated by the administrator to other members of the educational facility. Further, in response to reporting of the threat, the controller can present to a teacher member of the educational facility a user interface that includes a plurality of graphical

20 teacher member of the educational facility a user interface that includes a plurality of graphical elements configured to allow the teacher to perform at least one of the following functions: requesting assistance, sending information, and marking safe.

Additionally or alternatively, in response to reporting of the threat, the controller can present to an administrator member of the educational facility a user interface that includes a

- 25 plurality of graphical elements configured to allow the administrator to perform at least one of the following functions: ending the lock-down, ending the evacuation, sending an update, and calling emergency services. Further, , in response to reporting of the threat, the controller can present to a student member of the educational facility a user interface that includes a plurality of graphical elements configured to allow the student member to perform at least one of the
- 30 following functions: requesting assistance, marking safe, and providing information to proper authorities. Furthermore, in response to selection of at least one of the graphical elements by a student member to provide information, the controller can update the user interfaces of any of

other members (*e.g.*, teacher member, parent member, or administrator member) to facilitate responding to or reacting to the information provided by that student. Further, the dynamically updated user interface(s) described herein can allow the members of the educational facility to respond to or react to reporting of the threat and/or any actions taken following the reporting of the threat.

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Other aspects and advantages of the embodiments disclosed herein can become apparent from the following drawings and description, all of which illustrate the principles of the embodiments, by way of example only.

BRIEF DESCRIPTION OF THE DRAWINGS

10 FIG. 1A depicts an example of an interface that can be presented to a teacher member of an educational facility according to embodiments disclosed herein.

FIG. 1B depicts another example of an interface that can be presented to a teacher member of an educational facility according to embodiments disclosed herein.

FIG. 1C depicts yet another example of an interface that can be presented to a teacher member of an educational facility according to embodiments disclosed herein.

FIG. 1D depicts another example of an interface that can be presented to a teacher member of an educational facility according to embodiments disclosed herein.

FIG. 2A depicts an example of an interface that can be presented to an administrator member of an educational facility according to embodiments disclosed herein.

FIG. 2B depicts another example of an interface that can be presented to an administrator member of an educational facility according to embodiments disclosed herein.

FIG. 2C depicts yet another example of an interface that can be presented to an administrator member of an educational facility according to embodiments disclosed herein.

FIG. 2D depicts another example of an interface that can be presented to an administrator member of an educational facility according to embodiments disclosed herein.

FIG. 3 depicts an example of an interface that can be presented to a student member of an educational facility according to embodiments disclosed herein.

FIG. 4 is a block diagram of a communications system according to an illustrative embodiment disclosed herein.

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FIG. 5 is an example illustration of digital electronic circuitry or computer hardware that can be used with the embodiments disclosed herein.

DETAILED DESCRIPTION

In one aspect, a system for managing an impending threat to an educational institution is disclosed, which comprises at least one computer processor, a plurality of graphical user interfaces, a controller coupled to the processor and the graphical user interfaces and configured to present to each of a plurality of members of said educational institution selected ones of said user interfaces based on a profile of said member. For each of the members, the selected ones of the user interfaces presented to that member comprise at least one threat-reporting user interface for reporting an impending threat. The threat-reporting user interface comprises a graphical

element for reporting the impending threat. In response to reporting of the impending threat via

10 the threat-reporting user interface, the controller dynamically updates a user interface presented to each of the plurality of members from among said plurality of user interfaces and based on a profile of that member.

The profile of a member may be based on the function that member performs in a community associated with the educational institution. For example, a member can be any of a 15 student, a teacher, an administrator, other staff of the educational institution, and/or a parent. In some embodiments, the profiles can include at least one of: student, teacher/faculty, school Administrator, School Resource Officers SRO (On-campus police), Specialized Response Groups (SRG) (Anti-bullying staff, EMS certified staff, etc.), district administrator, first responder, and/or parent profile.

20 The updated user interface presented to a member can include one or more graphical elements for allowing the member to react to the threat report. For example, the graphical element(s) of an updated user interface can allow the member to at least one of: confirm the report, request assistance, initiate a threat-management protocol, send information, and mark safety.

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In some embodiments, in response to the reporting of the threat, the controller presents to each teacher one of the user interfaces that includes a plurality of graphical elements for any of confirming the threat report, providing information or requesting assistance.

In some embodiments, in response to the reporting of the threat, the controller presents to each administrator one of the user interfaces comprising a graphical element configured to allow the administrator to initiate at least one of: a lock-down, an evacuation, a shelter-in-place protocol, a silent lock-down, wherein upon initiating any of said actions the processor effects transmission of a notification indicative of said action to said members. In response to initiation of any of said actions by the administrator, the controller can present to each teacher one of said user interfaces that includes a plurality of graphical elements for any of requesting assistance, sending information, and marking safe. Further, in response to initiation of any of said actions by the administrator, said controller presents to each administrator one of said user interfaces that

includes a plurality of graphical elements for any of ending the lock-down, ending the

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evacuation, sending an update, and calling emergency services.

In some embodiments, the interfaces can provide one or more graphical features for performing at least one of the following functionalities: report emergencies by students or teachers, responding to emergencies by administrators, specialized response groups, and/or first

10 responders, providing emergency responses, sending push notifications to students, teachers, administrators, parents, transmitting text messages, allowing for specialized groups to respond to reports, calling other users through a user's phone, calling police by administrator members or teacher members, providing chat communication (*e.g.*, district-wide), providing push notifications alerts (*e.g.*, district-wide), transmitting email (*e.g.*, district-wide).

15 In some embodiments, in response to initiation of any of the above actions by the administrator, the controller presents to each student one of the user interfaces that includes one or more graphical elements for any of requesting assistance, marking safe and providing information to proper authorities.

In some embodiments, in response to selection at least one of said graphical elements by 20 a student to provide information, the controller updates the user interfaces of any of said teachers and said administrators to facilitate reacting to the information provided by said student.

The controller can be in communication with a database for receiving a profile of each of the members.

In a related aspect, a system for managing an impending threat to an educational 25 institution is disclosed, which comprises at least one processor, a controller coupled to the processor and configured to present to each of a plurality of members of said educational institution a user interface based on a profile of said member, where the controller is configured to dynamically update said user interface in response to reporting of an impending threat and one or more actions taken by one or more of said members following the reporting of the there. The

30 dynamically updated user interface allows the member to react to any of said reporting of the threat and said one or more actions taken following the reporting of the threat.

FIG. 1A depicts an example of an interface 100 that can be presented to a teacher member of an educational facility according to embodiments disclosed herein. As shown, the interface 100 can provide a teacher member with a reporting state in which the teacher member can utilize one or more graphical elements 100-1, 100-2, 100-3 to report various situations and

5 conditions (*e.g.*, a state of threat). In the example shown in FIG. 1A, the teacher member is presented with graphical elements 100-1, 100-2, 100-3 that allow reporting of an active shooting 100-1, reporting of a medical emergency 100-2, or reporting of a fire 100-3. It should be understood that the interface 101 can provide the member (*e.g.*, teacher member) with any suitable means of reporting a situation or a condition.

10 Although described in the context of an educational institution, embodiments disclosed herein can be used in any establishment for reporting any suitable situation and/or threat (shooting, burglary, fire, crimes, etc.). The interface 100 can also be configured such that interfaces on a device implementing the interface (*e.g.*, mobile phone or digital tablet) can be used to control the interfaces or graphical elements. For example, as shown in FIG. 1A, existing buttons 110, 120, 130 on a device 1000 implementing the interface can be used to perform

- various functions, for example request more information about the specific threat, report an emergency, and/or transition between various screens that may be included in the interface or allow for selection of the various elements 100-1, 100-2, 100-3 of the interface 100.
- FIG. 1B depicts another example of an interface 101 that can be presented to a teacher member of an educational facility according to embodiments disclosed herein. In this state, the system described herein can collect information as quickly as possible and forward the collected information to appropriate authorities and administrators so that they can quickly respond to the situation at hand. As shown, the interface 101 can provide a teacher member with an interface in which the teacher member can utilize one or more graphical elements 101-1, 101-2, 101-3 to
- 25 report and/or confirm various situations and conditions (*e.g.*, confirm a state of threat), send information regarding an existing situation, and/or request assistance or help with an ongoing situation. In the example shown in FIG. 1B, the teacher member is presented with graphical elements 101-1, 101-2, 101-3 that allow the teacher to report that situation (*e.g.*, an active shooter) is present 100-1, request help or assistance with the situation 100-2, and/or report/send
- 30 information regarding the situation 100-3. Using these graphical components, the interface 101 can allow the teacher member to provide confirmation to an administrator that the threat is real and that a response is required. Further, the interface can be coupled to a database (shown in

FIG. 4) that is configured to receive a request for assistance from the interface and forward the request to other teachers, administrators, or first responders.

FIG. 1C depicts yet another example of an interface 102 that can be presented to a teacher member of an educational facility according to embodiments disclosed herein. As shown
in FIG. 1C, upon confirmation of a state of threat, the teacher member can be presented with an interface 102 that provides the teacher member with required graphical elements to handle an emergency situation. The emergency state can provide for rapid collection of information for emergency responders so that they can quickly and efficiently respond to the situation. The teacher member can use the graphical elements 102-1, 102-2, 102-3 to request help and provide confirmation of threat and immediately notify first responders of the request for help (graphical element 102-1), mark as safe in the database for administrators, teachers, and first responders to access (graphical element 102-2), and/or provide additional information regarding the situation (graphical element 102-3).

FIG. 1D depicts another example of an interface 103 that can be presented to a teacher
member of an educational facility according to embodiments disclosed herein. As shown in FIG.
1D, the interface 103 can comprise a drill state that can be used during lock down and/or safety
drills to report non-emergency drills of an active shooter 103-1, request medical help 103-2, or
report fire 103-3.

FIG. 2A depicts an example of an interface 200 that can be presented to an administrator member of an educational facility according to embodiments disclosed herein. As shown, the interface 200 can provide an administrator member with a reporting state in which the administrator member can utilize one or more graphical elements 201, 202, 203 to provide an appropriate response to situations and conditions (*e.g.*, a state of threat) observed and/or reported by other members (teachers or students). In the example shown in FIG. 2A, the administrator member is presented with graphical elements that allow initiating a lock-down 201, ordering an evacuation 202, and/or contacting authorities 203 (*e.g.*, by calling 911).

FIG. 2B depicts another example of an interface 210 that can be presented to an administrator member of an educational facility according to embodiments disclosed herein.

As shown, the interface 210 can provide an administrator member with an emergency 30 state in which the administrator member can utilize one or more graphical elements 211, 212, 213 to provide an appropriate response to situations and conditions (*e.g.*, a state of threat) observed and/or reported by other members (teachers or students). In the example shown in FIG. 2B, the administrator member is presented with graphical elements that allow ending a lockdown 211, sending information about an ongoing situation 212, and/or contacting authorities 203 (*e.g.*, by calling 911).

FIG. 2C depicts yet another example of an interface 220 that can be presented to an 5 administrator member of an educational facility according to embodiments disclosed herein. As shown, the interface 220 can provide the administrator with a tool configured to allow administrators to see and rapidly respond to emergency reports in one screen. For example, as shown, the interface 220 can allow the administrator to initiate a default response 221 (e.g., lock down) or another appropriate response, perform other functions 222 (e.g., contact authorities), obtain information on an ongoing situation 223 (e.g., active shooter in a hallway).

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FIG. 2D depicts another example of an interface that can be presented to an administrator member of an educational facility according to embodiments disclosed herein. As shown in FIG. 2D, the interface 230 can comprise a drill state that can be used during lock down and/or safety drills to report non-emergency drills of a lock down 231, evacuation order 232, or establishing connection with appropriate authorities .

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FIG. 3 depicts an example of an interface 300 that can be presented to a student member of an educational facility according to embodiments disclosed herein. The student interface 300 can be configured to allow students to be informed by administrators of updates to an ongoing situation as the situation progresses. As shown, the interface can include one or more graphical components 310 configured to allow a student member to mark him/herself as safe or request

20 help (component 320) in emergency situations. In this way emergency responders can identify where to distribute resources to help the largest group of people efficiently.

FIG. 4 is a block diagram of a communications system 400 according to an illustrative embodiment disclosed herein. The communications system 400 includes a server 402 that is

25 coupled, via a communications network 490, with a number of communications devices 430. The devices 430 can be interconnected and are in communications with one another. Specifically, the communications devices 430 can be directly connected to one another, via a number of direct links 405, or connect to one another through the communications network 490. The communication devices 430 can also be connected to the server 402 and configured to send

30 and receive information to the server 402.

> The network 490 can be a private network (e.g., local area network (LAN)), a metropolitan area network (MAN), a wide area network (WAN), or a public network (e.g., the

Internet). The communications network 490 can be a hybrid communications network 190 that includes all or parts of other networks. The networks 490 can have various topologies (e.g., bus, star, or ring network topologies).

The communications devices can be communications devices that are capable of establishing a connection to the communications network 490 and/or other communications devices. Examples of the communications devices that can be used with the embodiments disclosed herein include, but are not limited to, workstations, wireless phones, smart phones, personal digital assistants, desktop computers, laptop computers, tablet computers, handheld computers, smart phones, etc. The communications devices can connect to one another and the network 490 via a number of links 405. Depending on the type of the communications device used (*e.g.*, wired or wireless device), the links 405 can be wired or wireless links.

The server 402 can be configured to monitor and/or track the communications devices 430 and/or store a profile associated with each communications device 430 in a database 401. The server 402 can be any kind of a server and offer a wide range of services. For example, the

15 server 402 can be a web server, database server, file server, mail server, gaming server, etc. The profiles stored by the server can maintain information that can be used to identify each communications device 430. For example, the server 402 can maintain information (*e.g.*, login and password information) that can be used to uniquely identify and/or authenticate a communications device user. In some embodiments, the server 402 can maintain information (*e.g.*, IP addresses) that can be used to uniquely identify a communications device 430.

FIG. 5 is an example illustration of digital electronic circuitry 500 or computer hardware that can be used with the embodiments disclosed herein. Without limitation, the techniques described herein can be implemented in digital electronic circuitry or in computer hardware that executes firmware, software, or combinations thereof, for example. The implementation can be as a computer program product, e.g., a computer program tangibly embodied in a machine-readable storage device, for execution by, or to control the operation of, data processing apparatus, e.g., a programmable processor, a computer, or multiple computers.

A computer program can be written in any programming language, including compiled or interpreted languages, and it can be deployed in any form, including as a stand-alone program or as a module, component, subroutine, or other unit suitable for use in a computing environment.

A computer program can be deployed to be executed on one computer or on multiple computers at one site or distributed across multiple sites and interconnected by a communications network.

One or more programmable processors execute a computer program to perform functions of the invention, or method steps described herein, by operating on input data and generating output. Method steps can also be performed by, and apparatus can be implemented as, special purpose logic circuitry, e.g., an FPGA (field programmable gate array) or an ASIC (application specific integrated circuit). Modules can refer to portions of the computer program and/or the

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specific integrated circuit). Modules can refer to portions of the computer program and/or processor/special circuitry that implements that functionality.

The digital electronic circuitry 500 can include a main memory unit 505 coupled to a processor 540. In some embodiments, the main memory unit 505 can be coupled with a cache unit 530, which is responsible for storing copies of the data from the most frequently used main

- 10 memory 505 locations. The processor 540 can be connected to various interfaces via an input/output (I/O) device interface 560. Processors 540 suitable for the execution of a computer program include, by way of example, both general and special purpose microprocessors, and any one or more processors of any kind of digital computer. Generally, a processor 540 will receive instructions and data from the main memory 505 (*e.g.*, a read-only memory or a random access
- 15 memory or both). The essential elements of a computer are the processor 540 for executing instructions and one or more memory devices (*e.g.*, main memory 205) for storing instructions and data.

The memory unit 505 can hold various computer executable instructions and data structures including computer executable instructions and data structures that implement aspects of the techniques described herein. The memory unit 505 can also include an operating system 510 and can be arranged to implement various conventional operating system functions including task and process scheduling, memory management, and controlled access to various devices, such as a data storage unit 580. The processes may include computer-executable instructions and data that are configured to implement various aspects of the techniques 25 described herein.

Machine-readable storage devices suitable for embodying computer program instructions and data include all forms of non-volatile memory, including by way of example semiconductor memory devices, *e.g.*, EPROM, EEPROM, and flash memory devices; magnetic disks, e.g., internal hard disks or removable disks; magneto-optical disks; and CD-ROM and DVD-ROM

30 disks. The processor and the memory can be supplemented by, or incorporated in special purpose logic circuitry.

Generally, the digital electronic circuitry 500 can also include, or be operatively coupled to receive data from or transfer data to, or both, one or more mass storage devices for the storing data 580, e.g., magnetic, magneto-optical disks, or optical disks. Data transmission and instructions can also occur over a communications network. Connection to the communications network can be provided using a network interface 550 coupled to the processor 540.

Claims

What is claimed is:

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1. A system for managing an impending threat to an educational institution, comprising: at least one processor,

a plurality of graphical user interfaces,

a controller coupled to the processor and the graphical user interfaces and configured to present to each of a plurality of members of said educational institution selected ones of said user interfaces based on a profile of said member,

wherein, for each of said members, said selected ones of the user interfaces presented to
 that member comprise at least one threat-reporting user interface for reporting an impending
 threat, said threat-reporting user interface comprising a graphical element for reporting said
 impending threat, and

wherein in response to reporting of said impending threat via said threat-reporting user interface, said controller dynamically updates a user interface presented to each of said plurality of members from among said plurality of user interfaces and based on a profile of that member.

2. The system of claim 1, wherein said members have at least one of the following profiles: student, teacher, administrator and parent.

- 20 3. The system of claim 1, wherein said updated user interface presented to a member includes one or more graphical elements for allowing said member to react to said threat report.
- 4. The system of claim 2, wherein said one or more graphical elements of the updated user
 interface allows the member to at least one of: confirm the report, request assistance, initiate a threat-management protocol, send information, and mark safety.

5. The system of claim 2, wherein ire response to reporting of said threat, the controller presents to each teacher one of said user interfaces that includes a plurality of graphical
30 elements for any of confirming the threat report, providing information or requesting assistance.

6. The system of claim 2, wherein in response to reporting of said threat, said controller presents to each administrator one of said user interfaces comprising a graphical element configured to allow the administrator to initiate at least one of: a lock-down, an evacuation, a shelter-in-place protocol, a silent lock-down, wherein upon initiating any of said actions the processor effects transmission of a notification indicative of said action to said members.

7. The system of claim 6, wherein in response to initiation of any of said actions by the administrator, said controller presents to each teacher one of said user interfaces that includes a plurality of graphical elements for any of requesting assistance, sending information, and marking safe.

8. The system of claim 6, wherein in response to initiation of any of said actions by the administrator, said controller presents to each administrator one of said user interfaces that includes a plurality of graphical elements for any of ending the lock-down, ending the evacuation, sending an update, and calling emergency services.

9. The system of claim 6, wherein in response to initiation of any of said actions by the administrator, said controller presents to each student one of said user interfaces that includes
20 one or more graphical elements for any of requesting assistance, marking safe and providing information to proper authorities.

10. The system of claim 1, wherein said controller is in communication with a database for receiving a profile of each of said members.

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11. The system of claim 9, wherein in response to selection of at least one of said graphical elements by a student to provide information, the controller updates the user interfaces of any of said teachers and said administrators to facilitate reacting to the information provided by said student.

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12. A system for managing an impending threat to an educational institution, comprising: at least one processor,

a controller coupled to the processor and configured to present to each of a plurality of members of said educational institution a user interface based on a profile of said member, wherein said controller is configured to dynamically update said user interface in response to reporting of an impending threat and one or more actions taken by one or more of said members

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following the reporting of the threat.

13. The system of claim 12, wherein said dynamically updated user interface allows the member to react to any of said reporting of the threat and said one or more actions taken following the reporting of the threat.

ABSTRACT

Systems, methods, and corresponding apparatus for managing an impending threat to an institution, such as an educational institution is described.





Administrator Views

Student View

Student Feed Despres to slow success to be on tomosity administration of updates at They project.



FIG. 3

All events hand ad at schools decreasion



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	United State	<u>s Patent</u>	and Tradema	NRK OFFICE United S Address CC PC Address W WW	STATES DEPARTMENT OF C States Patent and Trademark (MMISSIONER FOR PATENTS). Box 1450 sxandria, Virginia 22313-1450 ww.uspto.gov	OMMERCE Office
APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
62/858,921	06/07/2019		140	INVM-001-1	•	
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959				FILIN	G RECEIPT	
NELSON MUL	LINS RILEY &	SCARBOF	ROUGH LLP			
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BOSTON, MA	02109					

Date Mailed: 06/14/2019

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

Neal SONI, Westport, CT; Michael CHIME, Broadview Heights, OH; Dylan GLEICHER, Fairfield, CT; Daniel JAMES, Baton Rouge, LA;

Applicant(s)

Invictus Apps, Inc., Residence Not Provided

Power of Attorney: None

Permission to Access Application via Priority Document Exchange: Yes

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If Required, Foreign Filing License Granted: 06/13/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 62/858,921**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No ** SMALL ENTITY ** Title

SYSTEM, METHOD, AND APPARATUS FOR REPORTING A THREAT TO AN ESTABLISHMENT

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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470 James St. New Haven, CT

(616) 607-0135

contact@preparedapp.com

Scope of Service Schools (Yearly per School)		
Teacher/ Faculty User Accounts	Unlimited	l Users
Administrator User Accounts	Unlimited	l Users
District Administrator User Accounts	Unlimited Users	
Customization and Emergency Monitoring Console	Full Acce	SS
Android and iOS Integration	Full Acce	SS
Desktop & Monitor Toolbar Integration	Full Acce	SS
Prepared University Training	Fu	ll Access
All-Emergency Drill System Training	Full Acce	SS
	TOTAL:	\$2,500
COVID-19 Discount per Participating Institution		-\$1,000
	TOTAL:	\$1,500

(PRICE DISCOUNTED FOR NEW HAVEN)

Scope of Service First Responders

First Responder Accounts	Unlimited Users
First Responder Desktop Software	Full Access
First Responder Web Enabled Software	Full Access
Data sent to First Responders:	Emergency Access
Full Access to Roster data	Emergency Access
Real-Time Emergency Building Schematics	Emergency
Access	
Live Event Heatmap	Emergency Access
Real-Time Emergency location data	Emergency Access
Emergency Tracking of Medical, health statuses	Emergency Access
	TOTAL: FREE
Implementation Fees (One-Time per School)	
Uploading all roster data	Yearly
Processing building schematics	One-Time
Integration with Clever or TDB SIS system	Yearly
Connection with local First Responders	One-Time
Custom Protocol and Procedure Adoption	One-Time
	TOTAL: TBD



(ALL IMPLEMENTATION FEES)

Total Contract

(One-Time On	-boarding): \$4,000
	TOTAL: \$63,500
Contract Value Discount	\$ 44,000
	TOTAL: \$107,500
Normal Cost per Participating Institution	\$2,500
Number of Participating Institutions (Appendix A)	43
Contract duration	12 Months

CLIENT: New Haven Public Schools (NHPS)

Ву: _____ Name: _____

Title: _____

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Appendix A — List of Participating Institutions

District: Dublin City Schools Elementary Schools

- 1. Augusta Lewis Troup School
- 2. Barack H. Obama Magnet University School
- 3. Barnard Environmental Studies Interdistrict Magnet
- 4. L.W. Beecher Museum School of Arts & Sciences Interdistrict Magnet
- 5. Bishop Woods Architecture & Design Magnet
- 6. Brennan-Rogers: The Art of Communication & Media
- 7. Celentano Biotech, Health and Medical Magnet
- 8. Christopher Columbus Family Academy
- 9. Clinton Avenue School
- 10. Harry A. Conte West Hills Magnet: A School of Exploration & Innovation
- 11. Davis Street Arts & Academics Interdistrict Magnet
- 12. East Rock Community and Cultural Studies Magnet
- 13. Edgewood Magnet School
- 14. Elm City Montessori Magnet School
- 15. Fair Haven School
- 16. Hill Central School
- 17. Benjamin Jepson Multi-Age Interdistrict Magnet
- 18. John C. Daniels School of International Communication Interdistrict Magnet
- 19. John S. Martinez Sea & Sky STEM Magnet School
- 20. King/Robinson Interdistrict Magnet School: An International Baccalaureate World School
- 21. Lincoln-Bassett Community School
- 22. Mauro-Sheridan Science, Technology & Communications Interdistrict Magnet
- 23. Nathan Hale School
- 24. Quinnipiac Real World Magnet Math STEM School
- 25. Roberto Clemente Leadership Academy for Global Awareness Magnet
- 26. Ross Woodward Classical Studies Interdistrict Magnet
- 27. Truman School
- 28. West Rock STREAM Academy Interdistrict Magnet
- 29. Wexler-Grant Community School
- 30. Worthington Hooker School
 - -- Charter --
- 31. Wintergreen Interdistrict Magnet (ACES)

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- 32. Amistad Academy Charter Elementary School
- 33. Elm City College Preparatory Charter Elementary School
- 34. Booker T. Washington Academy Charter

Middle Schools

- 35. Betsy Ross Arts Interdistrict Magnet
- 36. Engineering & Science University Interdistrict Magnet Middle School -- Charter --
- 37. Amistad Academy Charter Middle School
- 38. Elm City College Preparatory Charter Middle School

High Schools

- 39. Cooperative Arts & Humanities Interdistrict Magnet
- 40. Engineering & Science University Interdistrict Magnet High School
- 41. High School in the Community (HSC) Interdistrict Magnet
- 42. Hill Regional Career High School Interdistrict Magnet
- 43. James Hillhouse High School
- 44. Metropolitan Business Academy Interdistrict Magnet
- 45. New Haven Academy Interdistrict Magnet
- 46. Riverside Education Academy Magnet
- 47. Wilbur L. Cross High School

-- Charter --

- 48. ACES Educational Center for the Arts (ECA)
- 49. Amistad Academy Charter High School
- 50. Common Ground Charter High School

TOTAL: 43 Participating Institutions

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