

Method And User Interface For Project Management

Technical Field

5 The present disclosure relates to a method and a system for concurrently managing multiple projects involving both planned and ad-hoc projects by dynamically updating the progress of the managed projects. Preferably, the disclosed method is implemented in the form of a program or application run in multiple networked computing devices. Further, the present disclosure also relates to an interactive user interface applied in the program to facilitate
10 implementation of the disclosed method.

Background

A number of tools or programs have been developed to assist user in managing various projects simultaneously. These project management programs particularly capitalize on the
15 ubiquitous wireless telecommunication network available to constantly update latest progress of a given project to the user of the program to improve decision making or logistic planning. For example, United State patent application no. 8296170 describes a business project management system that the disclosed system is able to identify activities in a project can be run in parallel and determine a reasonable period of each activity based on past record or
20 named participant associated to the activity. The described method also identify the correct timing to initiate one or more activities following completion of a parental project, which these activities dependent on. Davis et. al. offers another system for facilitating a project between owners and contractor, in United States patent application no. 8346582, by receiving data of the project, owner and contractor then further rating the received project and
25 determining rating of each contractor to identify contractor compatible for the rated project. The disclosed system also claims to provide notifications, bid letting support, project finance support, project scheduling assistance, construction support and/or bond acquisition support.

Another United States patent application no. 8862184 also discloses systems and methods for
30 management of mobile field assets. More specifically, the described method assists an officer or personnel in locating and finding field operation utilizing handheld devices. The method firstly downloads a field assessment program to and executes the downloaded program in a

handheld device that the executed program provides prompts for the personnel to collect the needed data for the field assessment, then finally performs the assessment by rendering the collected data.

5 Despite offering satisfactory way for managing different project types as they set out for, the aforesaid inventions lack the flexibility about how the updated information and progress being presented or shared to the users for more effective project coordination that facilitates logistic arrangement and timely completion of the managed projects. Also, the above-discussed inventions fall short of features, which promote management of any unplanned
10 activities in addition to the routine well-planned project. Such out of planning activities generally requires quick decision making from the management team and immediate execution of the corresponding remedial action to address the issues arisen thereof. Hence, there exists a need to offer project managing method or system capable of at least partially tackling the deficiencies found in current systems or methods.

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Summary

The present invention aims to provide a method of managing multiple ongoing projects among one or more officers, who are responsible to oversee at least one of the projects, and one or more contractors, who are employed and instructed to complete at least one of the
20 tasks of the at least one of the projects. Particularly, the disclosed method utilizes networked computing devices to dynamically update progress of the projects and share information relating to the projects.

Another object of the present disclosure is to offer a method for effectively managing projects
25 by compiling and arranging sessions or entries of the projects in an ordinal fashion on a user interface based upon latest update of the projects, more preferably based upon latest update of the pending projects. With the like grouping, the user of the disclosed method or system can fully focus on the projects with significant progress, more preferably pending project with notable progress, that corresponding decision or arrangement can be made immediately
30 without scrolling through all the projects listed or registered to the computing devices.

Further object of the present disclosure targets to provide a method for effective projects management by establishing a real-time messaging or communication channel between the users involved in each project. The real-time or communication channel serves as a tool for reporting the progress and keeping logs of the reported progress or discussion. The transcript
5 of each communication channel of each project will be stored and updated to a central server for record. The disclosed method is applicable also in mesh network with the transcript progressively updated among the connected computing devices.

An object of the present disclosure is to implement a project managing method using
10 communication channel-based project management system or interface rendering deviation or additional discussion of the project or tasks being documented accordingly for future reference. The present disclosure facilitates the information sharing and exchange inside the workflow suspension through the disclosed method or system.

Still one object of the present disclosure is to provide an effective management method or system with enhanced flexibility towards issues monitoring and identification. Thus, it can result in significant improvement on productivity. Furthermore, the communication channel-based interface also renders attachment or sharing of multimedia files feasible that monitoring the progress of contracting parties in accordance with requirements can be
20 conducted remotely without having the user to physically present for identifying issue or inspecting the completed work.

One of the objects of the present disclosure is to offer a graphical user interface implemented, incorporated or embedded to a software or program for performing the aforesaid method for
25 projects management. Preferably, the disclosed graphical user interface allows convenient registration and management of any unplanned incident or event as an ad-hoc project.

One aspect of the present disclosure includes a method of managing a plurality projects through a plurality of networked computing devices. The method preferably comprises
30 presenting a plurality of sessions on a user interface (UI) of a primary computing device, each of the plurality of sessions corresponding to one of a plurality of projects being managed with at least one task to be completed, and at least one of a plurality of secondary computing

devices associated therewith that the plurality of sessions being presented in an ordinal sequence; enabling selection of one of the plurality of sessions to perform activities relating thereto, the activities comprising one of recalling instructions relating to, updating progress, providing data and/or providing comment relating to the one of the plurality of projects
 5 associated with the one of the plurality of sessions being selected; and capturing activities performed under the selected one of the plurality of sessions and at least one comments and/or data provided via the primary computing device and/or the secondary devices as session entries on a session log associated with the selected one of the plurality of sessions, the session log being presentable on each of the at least one of the plurality of secondary
 10 computing devices and the primary computing device. More preferably, the ordinal sequence of the plurality of sessions being presented by the UI is dynamically updated based on one of latest sessions entries being captured by the respective session logs of and progress of the projects associated with the plurality of sessions.

15 Some embodiments of the disclosed method comprise the step of computing progress of at least one of the plurality projects; and comparing the computed progress to a predetermined standard to identify an overdue project. More preferably, the embodiment can further include alerting presence of the overdue project by providing a visual indicator to the session corresponding to the overdue project. Most preferably, the session of the project most
 20 overdue is being prioritized and presented as the uppermost session regardless of the ordinal sequence.

For several embodiments of the disclosed method, the progress is computed based upon tasks listed and being reported complete on a user-interactive checklist accessible from the UI.

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For a number of embodiments of the method, each session entry has one or more attributes associated therewith that the attribute is time, type of entries and author of the corresponding session entry.

30 In other embodiments, each session is indicative of the progress of the corresponding project and/or shows at least part of the latest updated log kept in the session log. Preferably, each

session is configured to be indicative of the number of unread messages stored to the session log.

Another aspect of the present disclosure refer to a graphical user interface (UI), implemented within a software stored on a computer readable medium, for real-time project management and communication through at least one primary computing device accessible by one officer and a plurality of secondary computing devices each accessible by one contractor connecting to a server through a network. The UI comprises a routine project window listing a plurality of first sessions each corresponding to a predetermined project, each first session being selectable to bring up a first session log for performing activities relating thereto as first session entries, the activities comprising one of recalling instructions relating to, updating progress on and providing data and/or comment relating to the one of the plurality of projects associated with; and an ad-hoc project window listing a plurality of second sessions each corresponding to a registered ad-hoc project, each second session being selectable to bring up a second session log for performing activities relating thereto as second session entries, the activities comprising one of recalling instructions relating to, updating progress on and providing data and/or comment relating to the one of the plurality of projects associated with. Preferably, the ad-hoc project window is configured to allow registration of an ad-hoc project, which relates to occurrence of an unplanned event requiring a remedial action, that a reporting window is activatable from the ad-hoc project window for the contractor or the officer to provide information relating to the ad-hoc project to be registered to form a second session on the ad-hoc project window, the information comprises any one or combination of address of the ad-hoc project to be performed, digital image or digital video relating to the event, description of the event, description relating to the remedial action, ratable urgency of the event, the type of contract, and the type of issue. The first and/or second sessions are presented in an ordinal sequence which is dynamically updated based on one of latest session entries being captured by the respective session logs of and progress status of the projects associated with the plurality of sessions. The UI is switchable in between the windows and/or session logs.

According to a few embodiments of the UI, the first session or second session corresponding to an overdue project is alerted by providing a visual indicator to the first session or the

second session corresponding to the overdue project. Preferably, the overdue project is identified by computing progress of the projects and comparing the computed progress of the project to a predetermined standard.

- 5 In more embodiments of the UI, the progress is computed based upon tasks listed and being reported complete through the user-interactive checklist.

According to a number of embodiments of the UI, the first session or second session of the project most overdue is being prioritized and presented as the uppermost session regardless of
10 the ordinal sequence.

According to a plurality of embodiments of the UI, each first or second session entry has one or more attributes associated therewith that the attribute is time, type of entries and author of the corresponding session entry.

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In several embodiments of the disclosed UI, the ad-hoc project registered through the primary computing device is assigned to one contractor based upon decision computed by the software referring to one or more predetermined criteria setting forth in the software upon registration of the ad-hoc project. Preferably, one of the predetermined criteria is to assign the
20 ad-hoc project to the contractor located closest to the address of the ad-hoc project.

In some embodiments of the UI, the address of the ad-hoc project be performed is determined by way of inputting data indicative of geolocation of the ad-hoc project using GPS data, A-GPS data, WIFI hotspot, other location service-obtainable data, machine readable object or
25 communicable signal containing direct or indirect data indicative of the address acquired by the primary and/or secondary computing device.

In some embodiments, the first session log is accessible upon verification on input of geolocation of the primary or secondary computing device attempting to access the first
30 session log and/or input of information from a machine readable object.

In some embodiments, each second session corresponding to an ad-hoc project is configured to be indicative of the number of unread messages stored to the session log.

According to more than one embodiments of the disclosed UI, the session log of the first and/or second session log allows sending of a private message to a specific party engaged with the session log by activating a dedicated icon and selecting name of one parties to receive the private message when there are more than two parties engaged in the session log.

Brief Description of Drawings

- 10 FIG. 1 illustrates log in screen of one embodiment of the disclosed UI;

- FIG. 2 illustrates ad-hoc window of one embodiments of the disclosed UI;

- FIG. 3 illustrates the second session log of the ad-hoc window of one embodiments of
15 the disclosed UI;
- FIG. 4 shows drop down menu complied with possible actions can be executed at the
 second session log;
- FIG. 5 shows one example of the reporting window;

- 20 FIG. 6 shows another example of the reporting window preferably present in the
 primary computing device accessible by the officer;

- FIG. 7 shows one embodiment of the UI for user to employ map or GPS tool in
 providing the address of the issue to be reported;

- 25 FIG. 8 present one embodiment adopted by the routine project window;

- FIG. 9 presents one embodiment of the first session log of the disclosed UI with
 computable progress of the corresponding project being reported;

- 30 FIG. 10 presents further embodiment of the first session log of the disclosed UI
 capturing comments of the user not ascribable for progress computation;

- FIG. 11 illustrates one embodiment of the user interactive checklist;
- FIG. 12 illustrates another embodiment of the user interactive checklist with more grouped actions executable at the top section of the checklist;
- 5 FIG. 13-14 illustrate pop-up window called upon in connection to activation of the tab relating to missing QR code of the grouped actions as showed in FIG. 12;
- FIG. 15-16 illustrate pop-up window brought forth for sending personal or private message to a specific party in the session log involving more than two parties;
- 10 FIG. 17 shows the map or GPS tool applicable to unlock or prompt download of the interactive checklist relating to the project;
- 15 FIG. 18 is a flowchart illustrating general process flow of one embodiment of the disclosed method being carried on the computing devices; and
- FIG. 19 is a flowchart illustrating process flow of another embodiment of the disclosed method to grant the user a temporary permission to access a session log and/or user interactive checklist in connection to failure to provide the verification data by the user. a
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Detailed Description

Hereinafter, the invention shall be described according to the preferred embodiments of the present invention and by referring to the accompanying description and drawings. However, it is to be understood that limiting the description to the preferred embodiments of the invention and to the drawings is merely to facilitate discussion of the present invention and it is envisioned that those skilled in the art may devise various modifications without departing from the scope of the appended claim.

The term “computing device” used throughout the specification of the present disclosure preferably refers to smart phone, phablets, personal digital assistant (PDA), tablet PC, laptop

and the like electronic devices equipped with the needed computing power, graphical processing unit and communication module to realize the disclosed method and UI. In some context, the computing device may refer to a hosting server or simply server which synchronizes all the updated logs or session log of other non-server computing devices
5 connected to it. It is possible to have the computing devices linked through a mesh network free from the use of a server.

Throughout the specification described hereinafter, the terms “officer” and “contractor” respectively refer to, in general, a primary user and a secondary user engaged in a direct or
10 indirect working relationship for a project that the primary user has power conferred over the secondary user, who has the responsibility or obligation to periodically report to or respond the query of the primary user with respect to the project. Notwithstanding that both the primary or secondary user may manage one or more other personnel working on the project as well.

15 The terms ‘officer’ and ‘first user’ are used interchangeably throughout this specification unless described otherwise. Likewise, the terms ‘contractor’ and ‘second user’ are used interchangeably in this specification unless mentioned otherwise.

20 Referring to FIG.8 and 18, one aspect of the present disclosure is a method 800 of managing a plurality projects through a plurality of networked computing devices 100. The disclosed method preferably comprises the steps of presenting 801 a plurality of sessions 310 on a user interface (UI) of a primary computing device, each of the plurality of sessions 310 corresponding to one of a plurality of projects being managed with at least one task to be
25 completed, and at least one of a plurality of secondary computing devices associated therewith that the plurality of sessions 310 being presented in an ordinal sequence; enabling selection 802 of one of the plurality of sessions 310 to perform activities 805 relating thereto, the activities comprising one of recalling instructions relating to, updating progress and providing data and/or comment relating to the one of the plurality of projects associated with
30 the one of the plurality of sessions 310 being selected; and capturing activities performed 807 under the selected one of the plurality of sessions 310 and at least one comments and/or data provided via the primary computing device and/or the secondary devices as session entries on

a session log 320 associated with the selected one of the plurality of sessions 310, the session log 320 being presentable 808 on each of the at least one of the plurality of secondary computing devices and the primary computing device.

5 More specifically, the UI of the primary 100a or secondary computing device 100b presents the session 310 in an ordinal sequence as one example shown in FIG.8. Each session 310 corresponds to a project being managed by the first user preferably supervising on the progress of the project or undertaken by the second user preferably running the project. As illustrated in FIG. 8, the session 310 displays title 319 of the project that the title can be the
 10 address of the project, a set of specific project code assigned to the contractors or any text descriptive of the related project. Fonts used for the title of each session are preferably larger in size and/or different color from the rest of the text present on the session 310 to offer more apparent visual cue for the user to look up for a particular project linked therewith. In some embodiments, the session 310 may contain one or more image to represent the project
 15 managed or undertaken together with the associated title 319 as shown in FIG. 2. On the UI of some embodiments, each session 310 is indicative of the progress of the corresponding project and/or shows at least part of the latest updated log 321 kept in the session log 320. For example, all the sessions in FIG. 8 respectively display the latest updated log 321 and, in certain condition, only show part of the updated log 321 because the content of the updated
 20 log is extensive that it runs out of space to show the entire updated log 321. Apart from that, each session 310 is configured to be indicative of the number of unread messages stored to the session log. Shown in FIG. 8, the uppermost session310 highlights to the user of one unread updated log and similar approach can be implemented for various bottom tabs 400a-c , at the bottom of the UI, separately linked to windows bearing the like sessions log 320 for
 25 notifying user of the unread message or any other unattended subject matters. The disclosed method 800 also preferable has the sessions 310 to provide information or attributes associated to the latest updated log 321 lodged to the corresponding session log 320. In the example of FIG.8, the session 310 shows the user name or author 322 contributes to the latest log 321 and also the time 313 at which the latest log 321 being submitted. These attributes
 30 can be extracted directly, with or without being subject to further computing process based upon the activity, session entry or log 321 performed towards the corresponding session log 320.

As in the foregoing description, the plurality of sessions 310 is presented in an ordinal sequence to the user that the ordinal sequence of the plurality of sessions being presented by the UI is dynamically updated based on one of latest sessions entries or log being captured by the respective session logs of and progress of the projects associated with the plurality of sessions. By dynamically updating the ordinal sequence referring to the latest captured log of the corresponding projects, the disclosed method “ergonomically” presents the user firstly the latest update of the actively advancing projects without the need to scroll or browse through sessions of unconcerned projects. Such approach renders management of multiple projects by the user less tedious and more project-focus compared to the conventional tool. It is important to note as well that the dynamically updated and arranged session 310 of each project in the present disclosure not only functions as a gateway for the user to access the associated session log 320 for status/progress update but also serves as an informative summary of a given project that the information or summary present on each session 310 is consistently and dynamically updated to promote undertaking of subsequent actions.

According to several preferred embodiments of the disclosed method, the user is enabled to select 802 of one of the plurality of sessions 310 by tapping or clicking onto the one of the sessions 310 listed as presented in FIG. 2 and FIG. 8. Some embodiments may only require the user to tap or click onto the session 310 once to gain access to the session log 320 for performing an activity to be registered as an updating log 321.

For some other embodiments, the users have to tap or click twice on to the interested session to access the associated session log. In more specific, the first tap or click to the interest session only highlights the session. More preferably, the first tap can call upon a progress status bar, which is indicative of percentage of the corresponding project being complete, without actually directing the user into the corresponding session log. Likewise, in further embodiments, the first tap or click actually expands the selected session vertically on the UI to load and present user with more detailed information, again without entering into the corresponding session. The expanded session may exhibit the aforementioned progress status bar, full content of the updated which may only be shown partly in the collapsed mode or any other information relevant to the corresponding project. Subsequent, second tap or click

against the highlighted or expanded session shall then guide the user to the associated session log.

5 Additionally, the disclosed method may require further verification 803 from the user or the computing device 100 to enable accessibility to the session log 320 upon selecting the associated session 310 by the user. Particularly, the selection of one of the plurality of sessions 310 is further selectively enabled by input data indicative of geolocation using GPS data, A-GPS data, WIFI hotspot, other location service-obtainable data, machine readable object or communicable signal containing direct or indirect data indicative of the address
10 acquired by the computing device. Under certain circumstances, the user, facing the like restriction imposed, is required to make a trip to the site of the project and have the computing device physically present thereto for capturing the accessibility verifying data in order to be subsequently enabled to report, through the accessed session log 320, accomplishment of at least one of the tasks undertaken. This ensures that the second user or
15 whoever undertaking the task have indeed completed the tasks on site, preferably with image of the on-site completed task being lodged together with the progress report submitted through the corresponding session log 320. Similarly, the first user supervising the task and bearing the like restriction is compelled to visit the site personally to examine and validate the log 321 previously reported by the contractor with respect to the task that the validating
20 report about the complete task can only be accessed or updated upon having the accessibility verifying data input to the computing device 100. The verification data to grant access of the locked session log 320 can be GPS, A-GPS coordinate data or the like location service-obtainable data suggestive close proximity of the computing device to the site of the project or task. Alternatively, machine readable object such as, but not limited to, matrix barcode, quick response (QR) code, shot code, maxicode, EZcode, Aztec code, high capacity code,
25 digital paper or photoTAN code containing information indicative of the site or address of the site may be placed adjacent to the site to be used as the verification data once it is captured by the computing device 100. The disclosed method may preferably configure the computing device to pick up other communicable signal such as those of or from, but not limited to,
30 WIFI hotspot, Near-Field Communication (NFC), Bluetooth, radio wave or microwave signal carrying the needed data indicative of the geolocation of the computing device. Besides, the verification code can be simply alphanumeric code for accessing particular session log 320

deemed carrying confidential information. For other embodiments, the verification data may only be required to further enable reporting on accomplishment of specific tasks that the user can actually access the session log 320 with no hindrance and free to perform permitted activities, except reporting completion of these specific tasks. Referring to some preferred
 5 embodiments, the sessions 310 on the UI 300 may adaptably indicate locked, unlocked or partial unlocked status of the associated session log as present in FIG.8 that the uppermost session 310 has a status icon 318a denoting partial unlocked state of the session and the bottommost session 310 bears a status icon 318b indicating fully unlocked state of the this particular session 310.

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Nonetheless, the disclosed method 800 also offers the flexibility to circumvent the need of providing the verification data by the user as shown in FIG.19. For instance, in a situation where direct/indirect geolocation data is not obtainable as a result of bad weather or missing/damaged machine readable object, the disclosed method may adaptably grant
 15 temporary approval 810 to the user to gain access of the session log 320 or any user interactive checklists 340 associated therewith to facilitate reporting or commencement of the involved tasks without substantially delaying the project. The user may need to upload multimedia file such as digital image of the damaged machine readable object or screenshot of the computing device 100 showing absence of geolocation indicative signal when making
 20 the request of bypassing 810 the verification to an administrator of the disclosed method. Once the permission is given, the user is free to interact with the unlocked session log as usual.

In accordance with several embodiments, the disclosed method 800 has the UI 300 displayed
 25 804 session log 320 of the selected session 310 perform a verification process before consenting accessibility to a given session 310. One embodiment of the session log 320 is illustrated in FIG. 9 and 10. Preferably, the session log has a top bar 325 with title 319 of the corresponding project placed substantially center on the top bar, a back tab 324 located at one corner of the top bar 325 to bring the user back to the listed sessions 310, an action tab 329
 30 positioned at another corner opposite to the back tab 324 on the top bar 325. While at the bottom of the session log, text input bar 326 is located that tapping on the bar 326 shall bring forth a virtual keyboard 974 for the user to comment or update progress of the related project.

Once input of the text comment is done, user can tap or click onto the “send” tab 328 to lodge the comment as a session entry or log 321 to the session log 320 for record while the lodged log 321 will be synchronized to other computing devices carrying similar session and corresponding session log. For instance, the user not enrolled to a project may not carry the

5 corresponding session in his or her computing device, thus, receiving no update for the corresponding session according to some embodiments of the disclosed method. Still, in further embodiments, the disclosed method permits the user to subscribe for a session associated with a project, of which the user is not actively engaged with any of the task or sub-task involved. User subscribing a session can access the associated session log 320 to

10 read the logs 321 and/or put shared information to use, while entitlement to submit a registerable entry 321 to the associated session log can be dependent on his or her role or positioned held in relation to the first and/or second user engaged to the project. The disclosed method may confer a session-subscribing user the privilege to register an entry yet other subscribing user may not enjoy the same entitlement. Preferably, role, privilege or

15 entitlement of a user in a session 310 will be designated by the administrator of or the application implementing the disclosed method. For other information types to be shared to other participating parties of the session log, an attachment icon 327 is provided on the UI next to the input bar 326. User can tap on the attachment icon 327 to bring up a window for selecting document or images to be uploaded and shared through the session log 320. The

20 disclosed method 800 may have the computing device to detect or sense 805 the activity performed via the session log 320. More preferably, the disclosed method 800 generally categorizes 806 the performed activity as registerable activity and non-registerable activity. Non-registerable activity performable through the session log 320 refers to those activities or actions would not be registered by the disclosed method 800 as the session entry or log 321,

25 no record will be kept in the session log 320 and synced to other networked computing devices with respect to any non-registerable activities conducted. The non-registerable activities can be copy of text, paste of text, instruction to search or recall a previously lodged entry, scroll up or down of the session log, retrieving one or more user interactive checklist or the like. The disclosed method 800 merely conducts the designated action in connection to

30 the non-registerable activity without keeping any transmittable log. On the other hand, the registerable activity comprises progress update, providing data and/or comment relating to the corresponding project, or party newly joined or exited the session log. Following input of

registerable activity, the disclosed method 800 registers the performed activity 807 to the session log as the session entry 321 for record keeping and transmits the session entry or log 321 to other networked computing devices 808.

5 In addition to registerable and non-registerable activities, the registerable activities can be further categorized into computable 321a and non-computable logs 321b by the disclosed method 800 in several preferred embodiments. The non-computable entries 321b are shared through the session log 320 but not contributable to the computable progress of the corresponding project tied to the session 310, whilst the computable entries 321a allow the
 10 disclosed method 800 to extract the relevant input for computing a figure usable to measure or assess the overall progress of the project. As shown in FIG. 10, the non-computable logs 321b are comments of the user, uploaded pictures, shared URL, GPS data and etc. FIG.9 further shows the computable logs 321a which can be added up for computing the general progress of the project. The disclosed method 800 may employ different color codes for the
 15 user to discern computable logs 321a from the non-computable logs 321b. Preferably, the computable logs 321a are at least one of the actions buttons 344a-347a called upon by tapping to the action tab 329 and activated thereafter according to a prescribed manner for computing the overall progress. The result computed thereby may indicate percentage of accomplishment of the given project that the computed percentage can be used to compose
 20 the progress status bar (not shown) aforementioned. In some embodiments, a general status 315, based upon the computed progress, of a particular project is incorporated to the session 310 also.

Pursuant to several embodiments of the disclosed method 800, the progress is preferably
 25 computed based upon tasks 341 and/or sub-tasks 342 listed and being reported complete on a user-interactive checklist 340 accessible from the UI 300. One embodiment of the user-interactive checklist 340 is illustrated in FIG.11. The interactive checklist 340 preferably adopts the format of a dropdown box presenting tasks 341 or sub-tasks 342 to be performed for the corresponding project. The checklist 340 further places relevant sub-tasks 342 right
 30 under the relevant main task 341 that a checkbox 343 is located next to each itemized sub-task 342. The user, either the first user or the second user, can tick on the respective checkbox 343 to select and report accomplishment of the sub-tasks 342. The user can tap on the ‘finish’

button 344 assigned to each main task 341 to simultaneously select all related sub-tasks 342. To report and lodge the updated and interacted checklist 340, the user may further tap or click the 'save' button 345 to save the update to the corresponding session log 320 as a session entry 321 and further transmit 808 the updated entry to the connecting computing device 100.

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According to more preferred embodiments of the disclosed method 800, each session entry or log 321 has one or more attributes associated therewith. These attribute can be time or time stamp of the entry submitted, type of entries, author of the corresponding session entry, read or unread status of the delivered logs by other parties engaged in the same session log, failed
 10 delivery state of a particular log 321 or the like. These attributes will be automatically captivated by the computing device 100 used and forming part of the updated logs 321 as shown in FIG8-10. Particularly, embodiment of FIG. 8 shows the name of the logs contributing user 322 and time 323 of the corresponding log 321 being updated on the session 310. Likewise, FIG. 10 shows the attributes of the name of the logs contributing user 322 and
 15 time 323 of the corresponding log 321 being updated.

In some more preferable embodiments, the disclosed method 800 may further include the steps of computing progress of at least one of the plurality projects; and comparing the computed progress to a predetermined standard to identify an overdue project. The
 20 predetermined standard can be a timeline acquired from the past projects or determined by the officer or first user before the project is rewarded to a contractor or second user. Provided that any of the tasks 341 or sub-tasks 342 is incomplete after the given deadline, the whole project will be considered overdue and the disclosed method 800 consequently flags the corresponding session 310 as overdue on the UI 300. Preferably, the disclosed method 800
 25 alerts presence of the overdue project by providing a visual indicator to the session 310 corresponding to the overdue project. For example, the entire session 310 of an overdue project in the UI will be highlighted, preferably in red color, to alert the user about an overdue project. As an alternative, the UI may be divided into different windows, as in FIG.8, switchable from one another via the top tabs 317a-c. Particularly, the top tab 317a, normal
 30 window, is for active ongoing yet due project and the top tab 317c, an overdue project window, lists all the sessions 310 of the corresponding overdue projects. Optionally, an additional top tab 317b, as peripheral window, can be used to display sessions of past

complete projects or session 310 of projects subscribed by the user, the user may not be actively engaged with the project associated with the subscribed session. In some other embodiments, the disclosed method 800 preferably has the UI 300 prioritized and fixed the session 310 of the project most overdue as the topmost session regardless of the ordinal sequence to persistently prompt the user to attend the overdue projects. The fixed session of the overdue project may resume to be ranked referring to the ordinal sequence as soon as being verified back on schedule by the first user. When there are several overdue projects to be dealt with, the sessions of the overdue projects may be organized on the UI 300 by the disclosed method 800 with a standalone prioritized ordinal sequence separated from the ordinal sequence operating on the rest of pending yet due projects that the sessions 310 of the prioritized ordinal sequence precede sessions 310 of the common ordinal sequence in session ranking on the UI. More specifically, the sessions 310 of the prioritized ordinal sequence will supersede the rest of the sessions, which relates to other pending yet due project, in the session ranking. Furthermore, ranking among these sessions of the overdue project are determined by the disclosed method 800 based upon one of latest sessions entries being captured by the respective session logs 320 of and progress status of the projects associated therewith. Sessions 310 of common ordinal sequence ranked after the session of the overdue projects are likewise dynamically updated based on one of latest session entries 321 being captured by the respective session logs 320 of and progress status of the projects associated with the sessions 310.

Another aspect of the present disclosure encompasses a graphical user interface (UI) 300, implemented within a software stored on a computer readable medium, for real-time project management and communication through at least one primary computing device 100a accessible by one officer and a plurality of secondary computing devices 100b each accessible by one contractor connecting to a server through a network. The UI 300, as illustrated through FIG. 1-17, comprises a routine project window 301 listing a plurality of first sessions 310 each corresponding to a predetermined project, each first session 310 being selectable to bring up a first session log 320 for performing activities relating thereto as first session entries 321, the activities comprising one of recalling instructions relating to, updating progress on and providing data and/or comment relating to the one of the plurality of projects associated with; and an ad-hoc project window 201 listing a plurality of second

sessions 210 each corresponding to a registered ad-hoc project, each second session 201 being selectable to bring up a second session log 220 for performing activities relating thereto as second session entries 221, the activities comprising one of recalling instructions relating to, updating progress on and providing data and/or comment relating to the one of the plurality of projects associated with. Preferably, the ad-hoc project window 201 is configured to allow registration of an ad-hoc project, which relates to occurrence of an unplanned event requiring a remedial action, that the ad-hoc project window 201 has a reporting button 212 selectable to bring up a reporting window 280 for the contractor or the officer to provide information relating to the ad-hoc project to be registered to form a second session 210 on the ad-hoc project window 201, the information comprises any one or combination of address 283 of the ad-hoc project to be performed, digital image 286 relating to the event, description of the event 284, description relating to the remedial action (not shown), ratable urgency of the event 285, the type of contract 288, and the type of issue 287.

FIG.1 shows the log on screen 190 of the UI 300 requiring the user, either a first user or a second user, to provide login company ID 191, login user ID 192 and password 193 before granting the user access to the ad-hoc project window 201 or the routine project window 301. The log on screen 190 may also exploit other hardware, such as biometric scanner, featured on the computing device to verify the user in other embodiments. Once access is granted, the user is free to access the preferred windows as the disclosed UI 300 is switchable in between the windows 201, 301 and/or session logs 220, 310.

FIG.2 reveals one exemplary embodiment of the ad-hoc project window 201. Preferably, the disclosed UI 300 has the ad-hoc window 201 to present the second sessions 210 in an ordinal sequence as above discussed. Each second session 210 corresponds to an ad-hoc project being managed or undertaken. Each second session 210 has a title 219 descriptive of the ad-hoc project. In some embodiments, the listed second session may contain one or more image 216 to serve as a visual cue for the user to spot or identify the associated ad-hoc project with ease. For some embodiments of the disclosed UI 300, each second session 210 is preferably indicative of the progress of the corresponding ad-hoc project and/or shows at least part of the latest updated log 221 kept in the second session log 220. For example, all the second sessions 220 respectively display at least part of the latest updated log 221. The second

session 210 may only be able to reveal part of the updated log 221 when the content of the updated log 221 is too large to be entirely shown. Each second session 210 is configured to be indicative of the number of unread messages stored to the corresponding second session log 220. With reference to FIG. 2, the uppermost second session 210 highlights to the user, through a pop-up numeral icon 214, of three unread updated logs 221. Similar approach, with the use of the pop-up numeral icon 214, can be implemented for various bottom tabs 400a-b, at the bottom of the disclosed UI 300, separately selectable to access the representative windows indicated thereof for notifying user of the unread message or any other unattended subject matters. The ad-hoc window 201 also preferable has the sessions to provide information or attributes associated to the latest updated log 221 lodged to the corresponding second session log 220. In the example of FIG.2, the session 210 shows the user name or author 222 contributes to the latest log 221 and also the time 213 at which the latest log 221 being submitted. These attributes can be extracted directly, with or without subjected to further computing process, based upon the activity, second session entry 221 or log performed towards the corresponding second session log 220. More preferably, the ad-hoc project window 201 may be composed of different sub-windows, as in FIG.2, switchable from one another via the top tabs 217a-c. Particularly, the top tab 217a, normal window, keeps the active ongoing yet due ad-hoc project and the top tab 217c, an overdue window, lists all the sessions of the corresponding overdue projects. Optionally, an additional top tab 317b, as peripheral window, can be used to display sessions of past complete projects or other session of projects subscribed by the user. Despite not being actively engaged to the subscribed session, the user may keep these sessions owing to useful data or information shared in the corresponding second session log 220.

In some embodiments, a general status 215, based upon the computed progress, of a particular ad-hoc project is incorporated to the session 310 also.

It is important to note that the plurality of second sessions 210 is presented in an ordinal sequence to the user that the ordinal sequence of the plurality of second sessions 210 being presented by the UI 300 is dynamically updated based on one of latest sessions entries or log being 221 captured by the respective session logs of and progress of the projects associated with the plurality of second sessions 210.

One exemplary embodiment of the second session log 220 is illustrated in FIG. 3 and 4. Preferably, the second session log 220 has a top bar 225 built with a back tab 324 located at one corner to direct the user back to the ad-hoc project window 201 and an action tab 229 positioned at another corner opposite to the back tab on the top bar 225. By tapping the action tab 329, a pop-up box 550 is brought forth overlaying the second session log 220. The pop-up box 550 holds a group of action keys selectable to report on general progress of the associated ad-hoc project. The action keys include 'edit' 292a for user to modify some of the kept logs 221 restrictively, 'start' 292b to announce initiation of the ad-hoc project, 'stop' 292c to inform cessation of the ad-hoc project, 'completed' 292d to indicate end of the ad-hoc project and 'close' to call the pop-up box 550 off without activating the rest of the action keys 292a-d. The disclosed UI 300 positions the title of the corresponding project at the top of the second session log 220. Moving downward, the user can find text input bar 226 that tapping on the bar 226 shall bring forth a virtual keyboard 974 for the user to comment or update progress of the related ad-hoc project. User can activate the "send" tab 228 to push the comment as a session entry or log 221 to the second session log 220 and the lodged log 221 will be synchronized to other computing devices 100 carrying similar second session 210 and corresponding second session log 220. An attachment icon 227 is provided on the second session log 220 next to the input bar 226 for the user to share other files other than text input.

Furthermore, each second session entry or log 221 has one or more attributes associated therewith. These attribute can be time or time stamp of the entry submitted, type of entries, author of the corresponding session entry, read or unread status of the delivered logs by other parties engaged in the same session log. These attributes will be automatically captivated by the computing device 100 used and forming part of the updated second logs 221 as shown in FIG.2-4. Particularly, embodiment of FIG. 2 shows the name of the logs contributing user 222 and time 223 of the corresponding log being updated on the session. The second session log 220 in FIG. 3 offers the attributes of the name of the logs contributing user 222 and time 223 of the corresponding second log 221 being updated.

FIG.5 shows one embodiment of the reporting window 280a for registration of an ad-hoc project relating to occurrence of an unplanned event requiring a remedial action. To reach the

reporting window 280a from the ad-hoc project window 201, user can simply tap or click on the selectable reporting button 212 incorporated to the ad-hoc project window 201. At the reporting window 280a for registration of new ad-hoc project, user is required to provide information regarding the ad-hoc project to be registered. The reporting window possesses several blank rows for the input of address 283a of the ad-hoc project to be performed, digital image relating to the event or ad-hoc project 286a, description of the event 284a, description relating to the remedial action (not shown), ratable urgency or severity of the event 285a. As soon as the required information is fully entered, the user can tap on the 'post' button 281a to register the new ad-hoc project to form a new second session 210 on the ad-hoc project window 201. Otherwise, the user can activate the 'cancel' button 282a to call the registration off. Essentially, the UI for the primary 100a bears some minor differences contrary to the UI of secondary computing device 100b. The reporting window 280a in FIG.5 is preferably installed to the secondary computing device used by the contractor or the second user. FIG.6 illustrates another embodiment of the disclosed UI 300, particularly the reporting window 280b used in a primary computing device 100a. The reporting window 280b includes blank rows for the first user to announce the type of contract 287b about the new ad-hoc project, the type of issue 288b of the new ad-hoc project. The reporting window also offers the first user the right to assign 289b new ad-hoc project to a contractor or second user for undertaking the job related thereto or another in-charging officer to determine next course of action, in addition to the address 283b of the ad-hoc project to be performed, the digital image relating to the event or ad-hoc project 286b, the description of the event 284b, the description relating to the remedial action (not shown), the ratable urgency or severity of the event 285b made available as well in the UI 300 of the secondary computing device 100b.

In few preferred embodiments, the disclosed UI 300 may allow the ad-hoc project registered through the primary computing device 100b to be assigned to a contractor or second user based upon decision computed by the software referring to one or more predetermined criteria setting forth in the software. For instance, the column for assigning 289b the project offers the 'auto' option 909a for the officer to let the implemented software to choose the contractor or second user compatible for the ad-hoc project newly registered. The disclosed UI 300 also provides 'PO' option 909b for the officer to hand or assign the ad-hoc project to another officer or first user to manage. More preferably, one of the predetermined criteria is

to assign the ad-hoc project to the contractor located closest to the address of the ad-hoc project. Hence, the remedial action can be conducted as early as possible while the cost of logistic can be substantially reduced too.

- 5 FIG.7 presents another feature carried in the reporting window 280a, 280b for the user to correctly state the site or address of the ad-hoc project demanding the remedial action by way of acquiring GPS data or A-GPS data, other location service-obtainable data, machine readable object and/or communicable signal having direct or indirect data indicative of the address obtainable through the primary 100a and/or secondary computing device 100b.
- 10 Particularly, machine readable object such as, but not limited to, the matrix barcode, QR code, shot code, maxicode, EZcode, Aztec code, high capacity code, digital paper or photoTAN code can be part of a poster attached to wall of a building where the remedial action has to be performed.
- 15 Screenshot of FIG. 8 can be one embodiment of the routine project window 301 with the plurality of first sessions 310 organized by way of the ordinal sequence based upon latest update of the first session entry 321 captured. Preferably, the project title 319 can be found as the topmost text entry on each first session 310. Each first session 310 is indicative as well of the progress of the corresponding project and/or shows at least part of the latest updated log
- 20 kept in the first session log 320. Particularly, all the sessions in FIG. 8 respectively display the latest updated first log 321 and, in certain condition, only show part of the updated first log 321, especially when the content of the updated log is extensive that it runs out of space to show the entire updated log. Apart from that, each first session 321 is configured to be indicative of the number of unread messages synced to the first session log 320. Shown in
- 25 FIG. 8, the uppermost first session 310 highlights one unread updated first log or entry 321 using a pop-up numeral icon 314 and similar pop-up numeral icon 314 can be located at various bottom tabs 400a-c, at the bottom of the disclosed UI 300, serving as virtual buttons selectable to switch between ad-hoc project window 201 and routine project window 301. The first sessions 310 can include information or attributes associated to the latest updated
- 30 log lodged to the corresponding first session log 320. In the example of FIG.8, the first session 310 shows the user name or author 322 contributes to the latest log 321 and also the time 313 at which the latest log 321 being submitted. These attributes can be extracted

directly based upon the activity, session entry or log 321 performed towards the corresponding first session log 320 in any of the networked computing device subscribed to the first session 310.

- 5 Pursuant to more preferred embodiments, the plurality of first sessions 310 is presented in an ordinal sequence to the user that the ordinal sequence of the plurality of sessions being presented by the UI is dynamically updated based on one of latest first sessions entries or log 321 being captured by the respective session logs of and progress of the projects associated with the plurality of sessions. By dynamically updating the ordinal sequence referring to the latest captured log of the corresponding projects, the disclosed method “ergonomically” presents the user firstly the latest update of the actively advancing projects without the need to scroll or browse through sessions of unconcerned projects. The dynamically updated and arranged session of each project in the present disclosure not only function as a gateway for the user to access the associated session log for status/progress update but also serve as an compact summary of a given project that the information or summary present on each session is consistently and dynamically updated to promote undertaking of subsequent actions.

Accordingly, the disclosed UI 300 may request further verification from the user or the computing device to enable accessibility to the first session log 320 upon selecting a given first session 310 by the user. Particularly, the selection of one of the plurality of first sessions 310 is further selectively enabled by input data indicative of geolocation using GPS data, A-GPS data, WIFI hotspot, other location service-obtainable data, machine readable or communicable signal containing direct or indirect data indicative of the address acquired by the primary and/or secondary computing device. The verification data to grant access of the locked first session log 320 can be GPS, A-GPS coordinate data or the like location service-obtainable data suggestive close proximity of the computing device 100 to the site of the project. Moreover, the user can use other map tools 390, as in FIG. 17, to select and confirm his or her location 393. As an alternative, machine readable object such as, but not limited to, matrix barcode, quick response (QR) code, shot code, maxicode, EZcode, Aztec code, high capacity code, digital paper or photoTAN code containing information indicative of the site or address of the site may be placed, in advance, adjacent to the site to be used as the verification data once it is successfully read by the computing device 100. Furthermore, a

‘Scan QR’ button 312 can be positioned to the routine project window 301 to activate the scanning or camera function of the computing device to extract the needed data from the machine readable object or code as input for the verification mechanism. The computing device can also be configured to pick up other communicable signal such as, but not limited to, those of WIFI hotspot, Near-Field Communication (NFC), Bluetooth, radio wave or microwave signal carrying the needed data indicative of the geolocation of the computing device. Besides, the verification code can be simply alphanumeric code for accessing particular first session log 320 deemed carrying confidential information. For other embodiments, the verification data may only be required to further enable reporting on accomplishment of specific tasks that the user can actually access the first session log 320 with no substantial hindrance and free to perform the permitted activities, except reporting completion of these specific tasks. Referring to some preferred embodiments, the first sessions 310 on the UI 300 may adaptably indicate locked, unlocked or partial unlocked status of the associated first session log 310 as present in FIG.8 that the uppermost first session 310 has a status icon 318a denoting partial unlocked state of the first session 310 and the lastly listed first session 310 bears a status icon 318b indicating fully unlocked state of the this particular first session 310.

One embodiment of the first session log 320 is illustrated in FIG. 9 and 10. Preferably, the first session log 320 has a top bar 325 with title 319 of the corresponding project placed substantially center on the top bar, a back tab 324 located at one corner of the top bar 325 to bring the user back to the listed first sessions 310, an action tab 329 positioned at another corner opposite to the back tab 324 on the top bar 325. While at the bottom of the first session log 310, text input bar 326 is located that tapping on the bar 326 shall trigger on a virtual keyboard 974 for the user to comment or update progress of the related project. Once input of the text comment is done, user can tap or click onto the “send” tab 328 to lodge the comment as a first session entry or log 321 to the session log 320 for record while the lodged first log 321 will be synchronized to other computing devices 100 carrying similar session and corresponding session log. User can tap on the attachment icon 327 to bring up a window for selecting document or images to be uploaded and shared through the first session log 320. Each first session entry or log 321 on the first session log 320 has one or more attributes associated therewith. These attribute can be time or time stamp of the entry submitted, type of

entries, author of the corresponding session entry, read or unread status of the delivered logs by other parties engaged in the same session log, failed logs and etc. These attributes will be automatically captivated by the computing device 100 used and forming part of the updated first logs 321 as shown in FIG8-10. Particularly, embodiment of FIG. 8 shows the name of the logs contributing user 322 and time 323 of the corresponding log being updated on the first session 310. Likewise, FIG. 10 shows the attributes of the name of the logs contributing user 322 and time 323 of the corresponding log being updated to the first session log 320.

FIG.11 and FIG.12 respectively present exemplary of the user-interactive checklist deployed to the primary computing device 100a and the secondary computing device 100b. As in setting forth, the progress of the routine project is preferably computed based upon tasks 341 and/or sub-tasks 342 known have been accomplished and reported using the user-interactive checklist 340 accessible from the UI 300. Preferably, the first session log 320 is accessible to a user-interactive checklist 340 documenting all individual tasks of the predetermined project.

The interactive checklist 340 to be implemented and used by the officer preferably adopts the format shown in FIG. 11, with the checklist 340 presenting tasks 341 and sub-tasks 342 to be performed for the corresponding project. The disclosed UI 300 places sub-task 342 under the relevant main task 341 that a checkbox 343 is located adjacent to each itemized sub-task 342. The user, an officer or a first user, can tick on the respective checkbox 343 to denote and confirm accomplishment of the sub-tasks 342 as being reported. Alternatively, the user or officer can tap on the 'finish' button 344 assigned to each main task 341 to tick all the associated sub-tasks 342 with a single action. To report and lodge the updated checklist 340 to further compute the progress, the user may tap or click to the 'save' button 345 to save the updated checklist 340 to the corresponding first session log 320 as a session entry 321a and further transmit the updated entry to the connecting computing devices 100. The first user can simply call the user-interactive checklist 340 off by tapping the 'close' button 348. By comparison, one embodiment of the user-interactive checklist 340a applicable for the secondary computing device 100b is illustrated in FIG.12. This checklist 340a also groups the main task 341a and the relevant sub-tasks 342b in the same segment on the checklist 340, with a checkbox tagged to each sub-task 342a for contractor to report accomplishment. Yet, the checklist 340a has the 'finish' button 344a and 'save' button 345a located at the top section of the checklist 340a. Two extra buttons, namely 'missing QR' button 346a and 'scan'

button 347a, are provided to the checklist 340b. More specifically, the 'scan' button 347a is activated to capture machine readable object as part of the effort of the contractor or second user to report accomplishment of a task 341a or sub-task 342a. To successfully submit the report on accomplishment of at least one of the tasks 341a or sub-tasks 342a, the contractor or second user has to scan the barcode placed at or around the site of the project. On the contrary, the contractor uses the 'missing QR' button 346a to report missing of the machine readable object at the project site that reporting on accomplishment of a specific task is not feasible for the time being. The like situation may cover also spoilt or damaged code. Optionally, the second user may be granted with one-time permit, by the first user or project administrator, to bypass the restriction and report completion of the task. After receiving report regarding the missing QR code, one from the administrator office or officer can then replace the missing or damaged code. It is crucial to note that generating report on missing code is only part of the issue-submitting module incorporated to routine project window 301 for the user to raise any glitches or issues faced in the predetermined project that temporary changes or adjustment may be needed. Other issues can be raised via this module can be reschedule of tasks, replacement or inclusion of new contractor/officer, and etc. FIG.13 further illustrates one possible embodiment of the disclosed UI 300 for the user to submit the spoilt or missing code. A pop-up menu 350 overlays the first session log 320. The menu 350 presents categories 354 of the task or sub-tasks to the user, with one checkbox 355 located next to each category 355 for user's selection. As soon as the category 354 is selected, user can tap the 'submit' button 356a to generate a report thereof. Pressing the 'cancel' button 356b will otherwise terminate the report generation and submission to the administrator. The disclosed UI 300 may further direct the user to an archive window 977, as illustrated in FIG. 14, listing submission 359 of the issues filed to the administrator. Preferably, the disclosed UI 300 documents the submission 359 based upon the contributor 358 of the submission. Optionally, the disclosed UI present the user a confirmation window 357 requesting the user to make a final confirmation about the submission.

Referring to FIG.15 and FIG.16, another feature of the disclosed UI 300 is illustrated. More particularly, the first session log 320, preferably also the second session log 220, allows the user to send a private message or personal message to a specific party engaged with the first 320 or second session log 220 by activating a dedicated icon 376 and selecting name of the

- specific party 373 to receive the private message when there are more than two parties engaged in the first 320 or second session log 220. User can tap on the icon 376 to initiate the process to deliver the private message that the disclosed UI 300 bring forth a name list 370 showing each party or participant of the corresponding first 320 or second session log 220.
- 5 User can tick the checkbox 374 next to the name 373 of the desired party. The disclosed UI can arrange the name into different groups, preferably according to position held by the parties in the corresponding project, such as officer 372a or manager 372b. Subsequent action activating the 'send' button 375a, with the desired party selected, shall prompt the disclosed UI to deliver the message in private to the chosen recipient. User can terminate the process by
- 10 tapping the 'close' button 375b. The disclosed UI only registers the log 321b of the private message to first 320 or second session log 220 of the sender and recipient but not the rest of the parties engaged to the corresponding session log 220/320. Also, an attribute 328 is inserted to the associated log 321b to denote the private message.
- 15 In accordance with a number of embodiments, the first session 310 corresponding to an overdue project is alerted in the disclosed UI 300 by providing a visual indicator to the first session associated to the overdue project. As long any of the tasks 341 or sub-tasks 342 is incomplete after the given deadline, the whole project will be considered overdue. The disclosed method 800 consequently flags the corresponding session as overdue on the UI 300.
- 20 Preferably, the disclosed UI 300 alerts presence of the overdue project by providing a visual indicator to the first 310 session corresponding to the overdue project. For example, the entire session of an overdue project displayed on the UI will be highlighted, preferably in red color, to impress the user about the overdue project.
- 25 For some embodiments, disclosed UI may divide the routine project window 301 into different sub-windows, as in FIG.8, switchable from one another via the top tabs 317a-c. Particularly, the top tab 317a, normal window, displays active ongoing project yet due and the top tab 317c, an overdue project window, lists all the sessions of the corresponding overdue projects. Optionally, an additional top tab 317b, as peripheral window, can be used
- 30 to exhibit sessions of past complete projects or subscribed session of projects involving other contractors that these sessions may contain useful data or information shared in the corresponding first session log 320 for present or coming projects. In some other

embodiments, the disclosed UI 300 prioritizes and presents the first session 310 of the project most overdue as the uppermost session regardless of the ordinal sequence to persistently prompt the user to attend the overdue projects. The overdue project is identified by computing progress of the projects and comparing the computed progress of the project to a predetermined standard. More preferably, the progress is computed based upon tasks listed and being reported complete through the user-interactive checklist 340. When there are several overdue projects to be settled, the first sessions 310 of the overdue projects may be organized on the UI 300 with a standalone prioritized ordinal sequence rather than the ordinal sequence operating on the rest of pending projects. The first sessions 310 tied to the prioritized ordinal sequence precede first sessions 310 of the common ordinal sequence in session ranking on the disclosed UI 300. More specifically, the first sessions 310 of the overdue projects will be ranked first while ranking among these first sessions of the overdue projects always refers to the prioritized ordinal sequence determined based upon one of latest entries 321a being captured by the respective first session log 320. Furthermore, the disclosed UI 300 offers the latitude of fixing at least one first 310 or second session 210 ranked on the window sidestepping the ordinal sequence. An icon 869 will be used to flag the fixed session.

As in the foregoing description, the disclosed UI 300 categorizes the performed activity, on the first 320 or second session log 220, as registerable activity and non-registerable activity. Non-registerable activity performable through the session log 220/320 refers to those activities or actions would not be registered by the UI as the session entry or log 221/321, no record will be kept in the session log 220/320 and synced to other networked computing devices with respect to any non-registerable activities conducted. The non-registerable activities can be copy of text, paste of text, instruction to search or recall a previously lodged entry, scroll up or down of the session log, retrieving one or more user interactive checklist or the like. The disclosed UI 300 merely conducts the designated action in connection to the non-registerable activity without keeping any transmittable log 321. On the other hand, the registerable activity comprises progress update, providing data, providing comment relating to the corresponding project, or party newly joined or exited the session log 220/320. Following input of a registerable activity, the disclosed UI 300 registers the performed activity to the session log 220/320, as the session entry 221/321 for record keeping, and transmits the session entry 221/321 or log to other networked computing devices 100.

In addition to registerable and non-registerable activities, the registerable activities can be further divided into computable 321a and non-computable logs 321b entries by the disclosed UI 300 in several preferred embodiments. The non-computable entries 221b/321b are shared
5 through the session log 220/320 but not contributable to the computable progress of the corresponding project tied to the session 210/310, whilst the computable entries 321a allow the disclosed UI 300 to extract the relevant input thereof computing a figure applicable to generally measure or assess overall progress of the project. As shown in FIG. 3, FIG.9 and FIG.10, the non-computable logs 221b/321b are comments of the user, uploaded pictures,
10 shared URL, GPS data and etc.

It is to be understood that the present invention may be embodied in other specific forms and is not limited to the embodiments described above. However modification and equivalents of the disclosed concepts such as those which readily occur to one skilled in the art are intended
15 to be included within the scope of the claims which are appended thereto.

Claims

1. A method of managing a plurality projects through a plurality of networked computing devices comprising:
 - 5 presenting a plurality of sessions on a user interface (UI) of a primary computing device, each of the plurality of sessions corresponding to one of a plurality of projects being managed with at least one task to be completed, and at least one of a plurality of secondary computing devices associated therewith that the plurality of sessions being presented in an ordinal sequence;
 - 10 enabling selection of one of the plurality of sessions to perform activities relating thereto, the activities comprising one of recalling instructions relating to, updating progress and providing data and/or comment relating to the one of the plurality of projects associated with the one of the plurality of sessions being selected;
 - 15 capturing activities performed under the selected one of the plurality of sessions and at least one comments and/or data provided via the primary computing device and/or the secondary devices as session entries on a session log associated with the selected one of the plurality of sessions, the session log being presentable on each of the at least one of the plurality of secondary computing devices and the primary computing device,
 - 20 wherein the ordinal sequence of the plurality of sessions being presented by the UI is dynamically updated based on one of latest sessions entries being captured by the respective session logs of and progress of the projects associated with the plurality of sessions.
- 25 2. The method of claim 1 further comprising computing progress of at least one of the plurality projects; and comparing the computed progress to a predetermined standard to identify an overdue project.
- 30 3. The method of claim 2 further comprising alerting presence of the overdue project by providing a visual indicator to the session corresponding to the overdue project.

4. The method of claim 2, wherein the session of the project most overdue is being prioritized and presented as the uppermost session regardless of the ordinal sequence.
- 5 5. The method of claim 2, wherein the progress is computed based upon tasks listed and being reported complete on a user-interactive checklist accessible from the UI.
6. The method of claim 1, wherein each session entry has one or more attributes associated therewith.
- 10 7. The method of claim 1, wherein each session is indicative of the progress of the corresponding project and/or shows at least part of the latest updated log kept in the session log.
- 15 8. The method of claim 1, wherein the selection of one of the plurality of sessions is further selectively enabled by input indicative of geolocation using GPS data, A-GPS data, location service data, WIFI hotspot, machine readable object or communicable signal containing direct or indirect data indicative of the address acquired by the computing device.
- 20 9. The method of claim 1, wherein each session is configured to be indicative of the number of unread messages stored to the session log.
- 25 10. A graphical user interface (UI), implemented within a software stored on a computer readable medium, for real-time project management and communication through at least one primary computing device accessible by a first user and a plurality of secondary computing devices each accessible by one second user connecting through a network comprising:
a routine project window listing a plurality of first sessions each corresponding to a predetermined project, each first session being selectable to bring up a first session log for performing activities relating thereto as first session entries, the activities comprising one of recalling instructions relating to, updating progress on and
- 30

providing data and/or comment relating to the one of the plurality of projects associated with; and

an ad-hoc project window listing a plurality of second sessions each corresponding to a registered ad-hoc project, each second session being selectable to bring up a second session log for performing activities relating thereto as second session entries, the activities comprising one of recalling instructions relating to, updating progress on and providing data and/or comment relating to the one of the plurality of projects associated with,

wherein the ad-hoc project window is configured to allow registration of an ad-hoc project, which relates to occurrence of an unplanned event requiring a remedial action, that a reporting window is activatable from the ad-hoc project window for the second user or the first user to provide information relating to the ad-hoc project to be registered to form a second session on the ad-hoc project window, the information comprises any one or combination of address of the ad-hoc project to be performed, digital image relating to the event, description of the event, description relating to the remedial action, ratable urgency of the event, the type of contract, and the type of issue,

wherein the UI is switchable in between the windows and/or session logs;

wherein the first and/or second sessions are presented in an ordinal sequence which is dynamically updated based on one of latest sessions entries being captured by the respective session logs of and progress status of the projects associated with the plurality of sessions.

11. The graphical user interface of claim 10, wherein the first session or second session corresponding to an overdue project is alerted by providing a visual indicator to the first session or the second session corresponding to the overdue project.

12. The graphical user interface of claim 10, wherein the overdue project is identified by computing progress of the projects and comparing the computed progress of the project to a predetermined standard.

13. The graphical user interface of claim 11, wherein the first session or second session of the project most overdue is being prioritized and presented as the uppermost session regardless of the ordinal sequence.
- 5 14. The graphical user interface of claim 10, wherein each first or second session entry has one or more attributes associated therewith.
15. The graphical user interface of claim 1, wherein the ad-hoc project registered through the primary computing device is assigned to one second user based upon decision
10 computed by the software referring to one or more predetermined criteria setting forth in the software upon registration of the ad-hoc project.
16. The graphical user interface of claim 15, wherein one of the predetermined criteria is to assign the ad-hoc project to the second user located closest to the address of the ad-
15 hoc project.
17. The graphical user interface of claim 1, wherein the address of the ad-hoc project to be performed is determined by way of inputting data indicative of geolocation of the ad-hoc project using GPS data, A-GPS data, location service data, WIFI hotspot,
20 machine readable object or communicable signal containing direct or indirect data indicative of the address acquired by the primary and/or secondary computing device.
18. The graphical user interface of claim 1, wherein each second session corresponding to an ad-hoc project is configured to be indicative of the number of unread messages
25 stored to the session log.
19. The graphical user interface of claim 1, wherein the first session log is accessible upon verification on input of geolocation of the primary or secondary computing device attempting to access the first session log and/or input of information from a
30 machine readable object.

20. The graphical user interface of claim 1, wherein the first session log is accessible to a user-interactive checklist listing all individual tasks for completing the corresponding predetermined project.

5 21. The graphical user interface of claim 20, wherein the progress is computed based upon tasks listed and being reported complete through the user-interactive checklist.

10 22. The graphical user interface of claim 16, wherein the session log of the first and/or second session log allows sending of a private message to a specific party engaged with the session log by activating a dedicated icon and selecting name of the specific party to receive the private message when there are more than two parties engaged in the session log.

15