

Claims

1. A computer-implemented system for delivery task acceptance, implemented on a mobile device comprising:
 - a display device;
 - a scanning device;
 - a memory storing instructions; and
 - at least one processor configured to execute the instructions to:
 - display a first graphical user interface on the display device when a user initiates an application, the first graphical user interface comprising an interactive calendar and a first button;
 - in response to a selection of the first button, display a second graphical user interface on the display device, the second graphical user interface displaying a plurality of selectable interface elements associated with delivery preferences comprising at least one of task type, number of packages, and task compliance, the selectable interface elements being configured to transmit delivery preferences to a server upon selection;
 - receive, from the server, a filtered list of delivery tasks comprising tasks that comply with transmitted delivery preferences;
 - after receiving the filtered list, generate a third graphical user interface on the display device, the third graphical user interface displaying a delivery dashboard comprising interactive icons representing the filtered list of delivery tasks;
 - receive, on the mobile device, an interaction with at least one of the interactive icons;
 - forward an identifier associated with the at least one of the interactive icons to the server including a code associated with a first delivery site for accomplishing the accepted delivery task;

receive, on the mobile device, a selection of an interface element to confirm presence at the first delivery site;
scan, via the scanning device, an indicia associated with the first delivery site, and determine whether the indicia matches the received code; and
responsive to a determination that the indicia matches the received code, provide an indication that the accepted delivery task is performed at the first delivery site.

2. The computer-implemented system of claim 1, wherein the scanning device captures images.
3. The computer-implemented system of claim 2, wherein the scanned indicia is a two-dimensional barcode.
4. The computer-implemented system of claim 1, wherein the indicia is compared to a copy of the received code stored on the mobile device.
5. The computer-implemented system of claim 1, wherein the plurality of selectable interface elements comprise a preference acceptability requirement.
6. The computer-implemented system of claim 5, wherein:
the preference acceptability requirement is set to only accept delivery tasks complying with the preferences; and
the filtered list comprises delivery tasks that strictly comply with the preferred delivery type, the preferred number of packages, and the preferred delivery areas.
7. The computer-implemented system of claim 5, wherein:
the preference acceptability requirement is set to accept delivery tasks complying with one or more of the preferences; and

the filtered list comprises delivery tasks that comply with at least one of the preferred delivery type, the preferred number of packages, or the preferred delivery areas.

8. The computer-implemented system of claim 5, wherein:
 - the preference acceptability requirement is set to only accept delivery tasks complying with the preferences; and
 - displaying the list of tasks comprises filtering the list of tasks based on the preferences.
9. A computer-implemented system for delivery task acceptance comprising:
 - a memory storing instructions; and
 - at least one processor configured to execute the instructions to:
 - receive, from an internal front end system, a list of delivery tasks for acceptance, each delivery task being associated with a delivery site;
 - in response to a selection of a first button in a first interface, transmit, to a mobile device, instructions to generate a second graphical user interface, the second graphical user interface displaying a plurality of selectable interface elements associated with delivery preferences comprising at least one of task type, number of packages, and task compliance, the selectable interface elements being configured to transmit delivery preferences to the at least one processor upon selection;
 - receive, from the mobile device, delivery preferences in response to the selection of the plurality of interface elements;
 - generate a filtered list of delivery tasks by filtering the list of delivery tasks according to the delivery preferences, the filtered list being a portion of the list of delivery tasks;
 - transmit, to the mobile device, instructions to generate a third graphical user interface, the third graphical user interface

displaying a delivery dashboard comprising a plurality of interactive icons representing the filtered list, the interactive icons being sorted based on the delivery preferences;
receive, from the mobile device upon selection of one or more of the plurality of interactive icons, a request for one or more of the delivery tasks for a delivery worker;
determine whether to approve the request; and
responsive to determining to approve the request, forward an approval message to the mobile device, the approval message including a code associated with the delivery site.

10. The computer-implemented system of claim 9, wherein
the selectable interface elements comprises a preference acceptability requirement; and
generating the filtered list comprises filtering the list of delivery tasks to remove delivery tasks that do not comply with the preferences when receiving a selection of the preference acceptability requirement.
11. The computer-implemented system of claim 9, wherein
the selectable interface elements comprise a preference acceptability requirement; and
generating the filtered list comprises:
determining that the preferences include a preference acceptability requirement is set to only accept delivery tasks complying with one or more of the preferences; and
filtering the list of delivery tasks to include delivery tasks that comply with at least one of the preferences.
12. The computer-implemented system of claim 9, wherein determine whether to approve the received acceptance comprises receiving an interaction from a second system approving or declining the received acceptance.

13. The computer-implemented system of claim 9, wherein determine whether to approve the received acceptance comprises determining whether to approve the received acceptance based on delivery history associated with the delivery worker.
14. The computer-implemented system of claim 9, wherein receiving the list of delivery tasks comprises:
 - preparing a user interface comprising at least one element for receiving information associated with the delivery tasks;
 - forwarding the user interface to a computer system operated by an administrator associated with the delivery site; and
 - receiving, through the user interface, the information associated with the delivery tasks.
15. The computer-implemented system of claim 9, wherein receiving a list of delivery tasks comprises:
 - receiving a data structure formatted to include information associated with forecasted delivery tasks; and
 - receiving the information associated with the forecasted delivery tasks.
16. The computer-implemented system of claim 9, wherein the list of delivery tasks comprises at least one of a delivery task, a return tasks, or a delivery/return task.
17. The computer-implemented system of claim 9, wherein each delivery task of the list of delivery tasks comprises an acceptance period.
18. The computer-implemented system of claim 17, wherein determining whether to approve the received acceptance comprises:
 - determining a current time;
 - comparing the current time to the acceptance period;

approving the received acceptance if the current time is inside of the acceptance period; and
declining the received acceptance otherwise.

19. The computer-implemented system of claim 9, wherein:
 - receiving an acceptance of a delivery task further comprises removing the delivery task from the list of delivery tasks;
 - based on determining to reject the received acceptance:
 - forwarding a rejection message to the mobile device;
 - adding the delivery task to the list of delivery tasks.
20. A computer-implemented system for delivery task acceptance comprising a mobile device and a computing device interconnected via a network,
 - the mobile device comprising:
 - a display device;
 - a scanning device;
 - a memory storing instructions; and
 - at least one processor configured to execute the instructions to:
 - display a first graphical user interface on the display device when a user initiates an application, the first graphical user interface comprising an interactive calendar and a first button;
 - in response to a selection of the first button, display a second graphical user interface on the display device, the second graphical user interface displaying a plurality of selectable interface elements associated with delivery preferences comprising at least one of task type, number of packages, and task compliance, the selectable interface elements being configured to transmit delivery preferences to a server upon selection;

receive, from the computing device, a filtered list of delivery tasks comprising tasks that comply with transmitted delivery preferences, the list of delivery tasks based on a stored set of preferences;

after receiving the filtered list, generating a third graphical user interface on the display device, the third graphical user interface displaying a delivery dashboard comprising a plurality of interactive icons representing the filtered list of delivery tasks;

receive, on the mobile device, an interaction with at least one of the interactive icons;

forward an identifier associated with the at least one of the interactive icons to the server;

receive, on the mobile device, a selection of an interface element to confirm presence at the first delivery site;

scanning, via the scanning device, an indicia associated with the first delivery site, and determine whether the indicia matches the received code; and

responsive to a determination that the indicia matches the received code, provide an indication that the accepted delivery task is performed at the first delivery site.