

CLAIMS

What is claimed is:

1. A computer-implemented system for verifying contents of a package and displaying packaging instructions, the system comprising:
a non-transitory computer-readable medium storing instructions; and
at least one processor configured to execute the instructions to display the user interface, the user interface configured for:
receiving, via an input device, a first user input comprising a first unknown identifier;
retrieving a first order information from a first database based on the first unknown identifier, the first database configured to store order information, the order information comprising one or more order identifiers, one or more package identifiers, one or more package types, one or more product identifiers, and status information;
displaying, via a display, the one or more product identifiers included in the first order information;
receiving, via the input device, a set of second user inputs comprising a set of second unknown identifiers, the set of second unknown identifiers being located on one or more products associated with the first order;
displaying, via the display, one or more product photos from a second database corresponding to a set of product identifiers that matches the set of second unknown identifiers, the second database configured to store product information, the product

information comprising the one or more product identifiers, one or more product photos, and one or more special handling indications;

displaying, via the display, the packaging instructions for packaging the one or more products corresponding to the set of product identifiers into a first package, the packaging instructions comprising a first package type of the first order information and the one or more special handling indications for the one or more products;

receiving, via the input device, a third user input comprising a third unknown identifier, the third unknown identifier being located on the first package;

matching the third unknown identifier to a first package identifier of the first order information;

receiving, via the input device, a fourth user input comprising a fourth unknown identifier;

matching the fourth unknown identifier to the first order information;

and

transmitting a signal to the first database to update a first status information of the first order information.

2. The computer-implemented system of claim 1, wherein retrieving the first order information comprises:
parsing the first unknown identifier to extract a series of characters;
recognizing a pattern in the series of characters indicative of an order;

querying the first database with the series of characters;
identifying the first order identifier of the first order information that matches
the series of characters; and
retrieving the first order information.

3. The computer-implemented system of claim 1, wherein displaying the one or more product photos comprises:
parsing the set of second unknown identifiers to extract one or more series of
characters;
recognizing a pattern in the one or more series of characters indicative of one
or more products;
querying the second database with the one or more series of characters;
identifying the set of product identifiers that matches the one or more series of
characters;
retrieving the one or more product photos from the second database
corresponding to the set of product identifiers; and
displaying the one or more product photos.
4. The computer-implemented system of claim 1, wherein the one or more order
identifiers, the one or more package identifiers, the one or more package
types, the one or more product identifiers comprise one or more unique
patterns of characters predetermined to identify with what they indicate.

5. The computer-implemented system of claim 1, wherein the one or more special handling indications are associated with a subset of the one or more products, and wherein the one or more special handling indications are simultaneously displayed with a product photo of the associated product.
6. The computer-implemented system of claim 1, wherein the one or more special handling indications comprise at least one of fragile, frozen, hazardous, corrosive, or explosive.
7. The computer-implemented system of claim 1, wherein the first package type is determined based on at least one of dimensions, volumes, or shapes of the one or more products associated with the first order.
8. The computer-implemented system of claim 1, wherein the user interface is further configured for:
receiving a fifth user input via an interactive user interface element displayed
on the display,
wherein the fifth user input is configured to display a notification on a remote display.
9. The computer-implemented system of claim 1, wherein the user interface is further configured for:
receiving a fifth user input via an interactive user interface element displayed
on the display,

wherein the fifth user input is configured to display a set of context-aware instructions based on current contents of the display.

10. The computer-implemented system of claim 1, wherein transmitting a signal to the first database further comprises:
update a first status information of the first order information as complete; and
activating an automated transport system that transfers the first package to a delivery vehicle .
11. A computer-implemented method for verifying contents of a package and displaying packaging instructions, the method comprising:
receiving, via an input device, a first user input comprising a first unknown identifier;
retrieving a first order information from a first database based on the first unknown identifier;
displaying, via a display, one or more product identifiers included in the first order information;
receiving, via the input device, a set of second user inputs comprising a set of second unknown identifiers, the set of second unknown identifiers being located on one or more products associated with the first order;
displaying, via the display, one or more product photos from a second database corresponding to a set of product identifiers that matches the set of second unknown identifiers;
displaying, via the display, the packaging instructions for packaging the one or more products corresponding to the set of product identifiers into a first

package, the packaging instructions comprising a first package type of the first order information and one or more special handling indications for the one or more products;

receiving, via the input device, a third user input comprising a third unknown identifier, the third unknown identifier being located on the first package;

matching the third unknown identifier to a first package identifier of the first order information;

receiving, via the input device, a fourth user input comprising a fourth unknown identifier;

matching the fourth unknown identifier to the first order information; and

transmitting a signal to the first database to update a first status information of the first order information.

12. The computer-implemented method of claim 11, wherein retrieving the first order information comprises:

parsing the first unknown identifier to extract a series of characters;

recognizing a pattern in the series of characters indicative of an order;

querying the first database with the series of characters;

identifying the first order identifier of the first order information that matches

the series of characters; and

retrieving the first order information.

13. The computer-implemented method of claim 11, wherein displaying the one or more product photos comprises:

parsing the set of second unknown identifiers to extract one or more series of characters;
recognizing a pattern in the one or more series of characters indicative of one or more products;
querying the second database with the one or more series of characters;
identifying the set of product identifiers that matches the one or more series of characters;
retrieving the one or more product photos from the second database corresponding to the set of product identifiers; and
displaying the one or more product photos.

14. The computer-implemented method of claim 11, wherein the one or more order identifiers, the one or more package identifiers, the one or more package types, the one or more product identifiers comprise one or more unique patterns of characters predetermined to identify with what they indicate.
15. The computer-implemented method of claim 11, wherein the one or more special handling indications are associated with a subset of the one or more products, and wherein the one or more special handling indications are simultaneously displayed with a product photo of the associated product.
16. The computer-implemented method of claim 11, wherein the one or more special handling indications comprise at least one of fragile, frozen, hazardous, corrosive, or explosive.

17. The computer-implemented method of claim 11, wherein the first package type is determined based on at least one of dimensions, volumes, or shapes of the one or more products associated with the first order.
18. The computer-implemented method of claim 11, wherein the user interface is further configured for:
receiving a fifth user input via an interactive user interface element displayed
on the display,
wherein the fifth user input is configured to display a notification on a remote display.
19. The computer-implemented method of claim 11, wherein the user interface is further configured for:
receiving a fifth user input via an interactive user interface element displayed
on the display,
wherein the fifth user input is configured to display a set of context-aware instructions based on current contents of the display.
20. A computer-implemented system for dynamic reconfiguration of a user interface based on a user's interaction with one or more physical objects, the system comprising:
a non-transitory computer-readable medium storing instructions; and
at least one processor configured to execute the instructions to configure the user interface, the instructions comprising:

displaying a generic interface configured to wait for user interaction;
receiving, via an input device, a first identifier associated with a first container, the first container comprising a set of tangible items;
displaying, in response to the first identifier, a list of identifiers corresponding to the set of tangible items;
receiving, via the input device, a second identifier associated with a first tangible item among the set of tangible items;
reconfiguring the list, in response to the second identifier, so that the second identifier appears at the top of the list of identifiers;
receiving, via the input device, a third identifier associated with a second tangible item among the set of tangible items;
reconfiguring the list, in response to the third identifier, so that the third identifier appears at the top of the list of identifiers;
displaying, in response to receiving at least one identifier for each of the tangible items, a message to the user that all items are accounted for; and
transmitting a signal, also in response to receiving at least one identifier for each of the tangible items, to a database via a network interface to update a status of a record associated with the set of tangible items.