

ABSTRACT

The present disclosure provides systems and methods for automatic packaging determination comprising memory storing instructions and at least one processor performing steps comprising: receiving an order comprising at least one item; searching at least one data store to determine tags and properties associated with each item; sorting the items into at least one group; for each group: performing an optimization process for packaging the items in the group, by: selecting a data structure representing a first package; iteratively simulating packaging of a largest item of the group into the first package until all items are packaged, wherein if the simulating determines that the items in the group do not fit into the selected package: choosing a larger package, iteratively packing until all items are packed in the larger package; and generating set of instructions for packaging the items into the box; and sending the generated instructions for display.