

THE FOLLOWING IS CLAIMED:

1. A method for executing a multi-restaurant order, the method comprising:
 - receiving a multi-restaurant order, by a delivery organizer from a software interface, wherein the delivery organizer is a software application executing on a computer, the multi-restaurant order comprising requesting a plurality of order items associated with a plurality of restaurants from at least one customer;
 - retrieving, by the delivery organizer, the following information associated with a first order item, of the plurality of order items, calculating a first time latency to begin preparing a first order item being associated with a first restaurant;
 - a first preparation time information, and
 - a first order temperature information;
 - retrieving, by the delivery organizer, the following information associated with a second order item, of the plurality of order items, the second order item being associated with a second restaurant:
 - a second preparation time information, and
 - a second order temperature information;
 - scheduling pickup times, by the delivery organizer, for at least one delivery provider to pick up the first order item and the second order item based on the following:
 - geolocation data of the first restaurant and the second restaurant,
 - comparing a target temperature of at least one of the first order item and the second order item with at least one of the following:
 - the first order temperature information, and
 - the second order temperature information, and
 - a target delivery time for the multi-restaurant order;
 - scheduling, based on order data, a first time to begin preparation of the first order item and a second time to begin preparation of the second order item;
 - transmitting, by the delivery organizer, the scheduled first time to begin preparation to the first restaurant;
 - transmitting, by the delivery organizer, the scheduled second time to begin preparation to the second restaurant;
 - transmitting, by the delivery organizer, the pickup times to the at least one delivery provider;

monitoring, by the delivery organizer, preparation times associated with the first order item and the second order item at their respective restaurants to detect one or more delays; and

transmitting, by the delivery organizer, based on the monitoring, a notification to one or more delivery providers to adjust one or more of the pickup times.

~~calculating a second time latency to begin preparing a second order item associated with a second restaurant;~~

~~comparing the first time latency and the second time latency;~~

~~scheduling, based on the comparing, a first time to begin preparation of the first order item and a second time to begin preparation of the second order item;~~

~~transmitting the first time to begin preparation to the first restaurant;~~

~~transmitting the second time to begin preparation to the second restaurant; and~~

~~calculating a plurality of proposed pickup times, based on the scheduling, of the first order item and the second order item.~~

2. The method of claim 1, wherein transmitting the pickup times to the at least one delivery provider comprises transmitting the pickup times to a plurality of delivery drivers.

3. The method of claim 1, further comprising assigning at least one additional delivery provider in order to deliver the first order item and the second order item within the target delivery time.

4. The method of claim 1, further comprising assigning at least one prerequisite item relating to the multi-restaurant order, the at least one prerequisite item comprising at least one of the following:

at least one thermal container;

at least one chafing apparatus; and

at least one cooler.

2.5. The method of claim 1, wherein receiving the multi-restaurant request order further comprises receiving at least one of the following:

at least one delivery address;

payment information of the at least one customer;

contact information of the at least one customer;

~~a desired~~the target delivery time; and

desired service options.

~~3.6.~~ The method of claim 21, further comprising receiving a completion indicator upon a completed delivery from a~~the at least one~~ delivery provider to a customer of the multi-restaurant order.

~~4.7.~~ The method of claim 36, further comprising transmitting payment from the customer to at least one of the following based on the completion indicator:

the first restaurant;

the second restaurant; and

the at least one delivery provider.

~~5.8.~~ The method of claim 1, further comprising: receiving an indication from the first restaurant as to a delay in the first preparation time associated with ~~the preparation of~~ the first order item.

~~6.9.~~ The method of claim 51, further comprising: recalculating and adjusting the second time ~~associated with the~~ to begin preparation of the second order item.

10. The method of claim 1, further comprising at least one of the following: modifying, upon a modification request of the first restaurant, the first preparation time information associated with preparing the first order item; and modifying, upon a modification request of the second restaurant, the second preparation time information associated with preparing the second order item.

11. A multi-restaurant order execution system comprising:
a memory storage; and
a processing unit coupled to the memory storage, the processing unit being configured to perform the following:

receive a multi-restaurant order, by a delivery organizer from a software interface, wherein the delivery organizer is a software application executing on a computer, the multi-restaurant order comprising a plurality of order items associated with a plurality of restaurants from at least one customer,

retrieve, by the delivery organizer, the following information associated with a first order item, of the plurality of order items, the first order item being associated with a first restaurant:

a first preparation time information, and

a first order temperature information,

retrieve, by the delivery organizer, the following information associated with a second order item, of the plurality of order items, the second order item being associated with a second restaurant:

a second preparation time information, and

a second order temperature information,

schedule pickup times, by the delivery organizer, for at least one delivery provider to pick up the first order item and the second order item based on the following:

geolocation data of the first restaurant and the second restaurant,

a comparison of a target temperature of at least one of the first order item and the second order item with at least one of the following:

the first order temperature information, and

the second order temperature information, and

a target delivery time for the multi-restaurant order,

schedule, based on order data, a first time to begin preparation of the first order item and a second time to begin preparation of the second order item,

transmit, by the delivery organizer, the scheduled first time to begin preparation to the first restaurant,

transmit, by the delivery organizer, the scheduled second time to begin preparation to the second restaurant,

transmit, by the delivery organizer, the pickup times to the at least one delivery provider,

monitor, by the delivery organizer, preparation times associated with the first order item and the second order item at their respective restaurants to detect one or more delays, and

transmit, by the delivery organizer, a notification to one or more delivery providers to adjust one or more of the pickup times.

12. The system of claim 11, wherein the one or more delivery providers comprises at least one of the following:

a robot;

a drone; and

a driverless vehicle.

13. The system of claim 11, wherein the first preparation time information comprises a time associated with preparing the first order item associated with the first restaurant.

14. The system of claim 11, further configured to assign at least one prerequisite item relating to the multi-restaurant order, the at least one prerequisite item comprising at least one of the following:

at least one thermal container;

at least one chafing apparatus; and

at least one cooler.

15. The system of claim 11, wherein receiving the multi-restaurant order further comprises receiving at least one of the following:

at least one delivery address;

payment information of the at least one customer;

contact information of the at least one customer; and

desired service options.

16. The system of claim 11, further configured to receive a completion indicator upon a completed delivery from the one or more delivery providers to the at least one customer of the multi-restaurant order.

17. The system of claim 16, further configured to transmit payment from the at least one customer to at least one of the following based on the completion indicator:
the first restaurant;
the second restaurant; and
the at least one delivery provider.

18. The system of claim 11, further configured to receive an indication from the first restaurant as to a delay in the first time to begin preparation of the first order item.

19. The system of claim 11, further configured to recalculate and adjust the second time to begin preparation of the second order item.

20. A non-transitory computer readable medium comprising a set of instructions which, when executed by a computer, perform a method, the method comprising:

receiving a multi-restaurant order, by a delivery organizer from a software interface, wherein the delivery organizer is a software application executing on the computer, the multi-restaurant order comprising a plurality of order items associated with a plurality of restaurants from at least one customer;

retrieving, by the delivery organizer, the following information associated with a first order item, of the plurality of order items, the first order item being associated with a first restaurant:

a first preparation time information, and

a first order temperature information;

retrieving, by the delivery organizer, the following information associated with a second order item, of the plurality of order items, the second order item being associated with a second restaurant:

a second preparation time information, and

a second order temperature information;

scheduling pickup times, by the delivery organizer, for at least one delivery provider to pick up the first order item and the second order item based on the following:

geolocation data of the first restaurant and the second restaurant,

comparing a target temperature of at least one of the first order item and the second order item with at least one of the following:

the first order temperature information, and

the second order temperature information, and

a target delivery time for the multi-restaurant order;

scheduling, based on order data, a first time to begin preparation of the first order item and a second time to begin preparation of the second order item;

transmitting, by the delivery organizer, the scheduled first time to begin preparation to the first restaurant;

transmitting, by the delivery organizer, the scheduled second time to begin preparation to the second restaurant;

transmitting, by the delivery organizer, the pickup times to the at least one delivery provider;

monitoring, by the delivery organizer, preparation times associated with the first order item and the second order item at their respective restaurants to detect one or more delays; and

transmitting, by the delivery organizer, based on the monitoring, a notification to one or more delivery providers to adjust one or more of the pickup times.

7.——~~The method of claim 6, further comprising: recalculating the proposed pick up times.~~

8.——~~A method for scheduling a plurality of delivery provider, the method comprising:~~

~~receiving plurality of pickup times and a delivery time threshold for a multi-restaurant order, the multi-restaurant request comprising a request of a first order item associated with a first restaurant, and a request of a second order item associated with a second restaurant;~~

~~analyzing the following:~~

~~geolocation data of the first restaurant and the second restaurant,~~

~~a plurality of distances from the first restaurant, the second restaurant, and the at least one delivery location, and~~

~~a plurality of food parameters of the first order item and the second order item;~~

~~requesting, based on the analyzing, one or more delivery providers, wherein requesting comprises determining a quantity of delivery providers to dispatch in order to deliver the first food item and the second food time with the following conditions:~~

~~a delivery of the first order item and the second order item at relatively the same time, and~~

~~a delivery of the first order item and the second order item within the delivery time threshold; and~~

~~—— assigning, upon an acceptance by the one or more delivery providers of the requesting, the plurality of pickup times and the at least one delivery time to the at least one delivery provider.~~

~~9.—— The method of claim 8, further comprising calculating the plurality of pick-up times based on at least one internal and at least one external parameter.~~

~~10.—— The method of claim 9, wherein calculating the plurality of pick-up times based on the least one internal parameter comprises calculating the plurality of pick-up times based on a preparation time associated with each order item.~~

~~11.—— The method of claim 10, wherein calculating the plurality of pick-up times based on the least one external parameter comprises calculating the plurality of pick-up times based on: a delivery route and the delivery time threshold.~~

~~12.—— The method of claim 8, receiving an indication of at least one of the following:~~

~~a delay in a preparation time of at least one of the following: the first order item and the second order item, and~~

~~a change in traffic patterns.~~

13.—The method of claim 12, further comprising: recalculating the plurality of pick-up times.

14.—The method of claim 13, wherein recalculating the plurality of pick-up times comprises changing an order of pick up for the order items.

15.—The method of claim 12, further comprising: assigning at least one additional delivery provider in order to deliver the first food item and the second food time with the following conditions:

the delivery of the first order item and the second order item at relatively the same time, and

the delivery of the first order item and the second order item within the delivery time threshold.

16.—The method of claim 8, wherein requiring confirmation of at least one prerequisite item relating to the multi-restaurant order comprises requiring at least one of the following:

at least one thermal container;

at least one chafing apparatus;

at least one cooler; and

at least one storage apparatus.

17.—The method of claim 8, wherein analyzing the plurality of food parameters of the first order item and the second order item comprises comparing the following:

a requested aspect of the first order item;

a requested aspect of the second order item; and

the at least one delivery time.

18.—The method of claim 8, further comprising prioritizing the plurality of pickup times and the plurality of delivery times based one at least one of the following:

calculated cooldown times for hot order items;

calculated heat up times for cold order items;

distance between at least one pickup location and at least one delivery location;
traffic conditions between the at least one pickup location and the at least one
delivery location; and

weather conditions between the at least one pickup location and the at least one
delivery location.

19.—The method of claim 8, wherein the requesting further comprises
requiring a confirmation of a predetermined dispatch time availability of the at least
one delivery provider.

20.—The method of claim 8, further comprising receiving a payment from the
multi-restaurant order.

21.—The method of claim 8, further comprising receiving inventory availability
from the first restaurant and the second restaurant.

22.—The method of claim 21, further comprising updating the multi-restaurant
order based on the inventory availability of the first restaurant and the second
restaurant.

23.—A method for executing a multi-restaurant order with a third-party
delivery platform, the method comprising:

receiving plurality of pickup times and a delivery threshold time for a multi-
restaurant order, the multi-restaurant request comprising a request of a first order item
associated with a first restaurant, and a request of a second order item associated with a
second restaurant;

analyzing the following:

geolocation data of the first restaurant and the second restaurant,

a plurality of distances from the first restaurant, the second restaurant,
and the at least one delivery location, and

a plurality of food parameters of the first order item and the second order
item; and

transmitting, based on the analyzing, a request to a third-party delivery platform to perform a plurality of pickups and at least one delivery relating to the multi-restaurant order.

24.—The method of claim 8, further comprising calculating the plurality of pick-up times based on at least one internal and at least one external parameter.

25.—The method of claim 9, wherein calculating the plurality of pick-up times based on the least one internal parameter comprises calculating the plurality of pick-up times based on a preparation time associated with each order item.

26.—The method of claim 10, wherein calculating the plurality of pick-up times based on the least one external parameter comprises calculating the plurality of pick-up times based on: a delivery route and the delivery time threshold.

27.—The method of claim 8, receiving an indication of at least one of the following:

a delay in a preparation time of at least one of the following: the first order item and the second order item, and

a change in traffic patterns.

28.—The method of claim 12, further comprising: recalculating the plurality of pick-up times.

29.—The method of claim 13, wherein recalculating the plurality of pick-up times comprises changing an order of pick up for the order items.

30.—The method of claim 12, further comprising: assigning at least one additional delivery provider in order to deliver the first food item and the second food time with the following conditions:

the delivery of the first order item and the second order item at relatively the same time, and

the delivery of the first order item and the second order item within the delivery time threshold.