METHODS AND SYSTEMS FOR PUSHING ORDERS

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The application claims priority to Chinese Application No. 201510070493.0, filed on February 10, 2015, Chinese Application No. 201510109403.4, filed on March 10, 2015, and Chinese Application No. 201510516211.5, filed on August 20, 2015, the entire contents of each of which are hereby incorporated by reference.

TECHNICAL FIELD

[0002] The present disclosure generally relates to a method and system for pushing orders, and more particularly, to a method and system for pushing orders in an on-demand service system using mobile internet technologies and data processing technologies.

BACKGROUND

[0003] On-demand services and applications have become increasingly popular. For example, with the rapid growth of cities, transportation services are in high demand for people from all sectors of society. Meanwhile, due to rapid development of mobile internet and popularity of smart devices, particularly smart navigation devices and smartphones, transportation service applications are increasingly popular and can bring great convenience to people. Furthermore, if a driver can receive successive orders that are correlated with each other in time and distance, it may reduce idle driving time for the driver, increase vehicle occupancy, and improve user experience.

SUMMARY

[0004] In some examples of the present disclosure, a system configured to provide information for an on-demand service is provided. The system may include a tangible computer readable storage medium and a processor. The computer readable

storage medium may be configured to store an executable module. The processor may be configured to implement the executable module in the computer readable storage medium. The executable module may include a service requester interface, a service provider interface, and a processing module. The service requester interface may obtain at least one first order and information related to the first order. The service requester interface may obtain at least one second order and information related to the second order. The information related to the first order may include geographic information related to the first order and time information related to the first order. The information related to the second order may include geographic information related to the second order and time information related to the second order. The processing module may filter the second order to generate at least one filtered second order based on the information related to the first order and the information related to the second order. The service provider interface may send the filtered second order. The processor may implement the executable module stored in the computer readable storage medium.

[0005] In some examples of the present disclosure, a method of providing information for an on-demand service is provided. The method may include: obtaining at least one first order and information related to the first order. The information related to the first order may include geographic information related to the first order and time information related to the first order; obtaining at least one second order and information related to the second order. The information related to the second order may include geographic information related to the second order and time information related to the second order; filtering the second order based on the information related to the first order and the information related to the second order to generate at least one filtered second order; and sending the filtered second order.

[0006] In some examples of the present disclosure, a tangible and non-volatile computer readable storage medium configured to store information is provided. When information is read by a computer, the computer may implement a method of providing the information for an on-demand service. The method may include: obtaining at least one first order and information related to the first order. The

[0010] According to some embodiments of the present disclosure, the first time length for completing the first order may be determined based on a driving speed of a historical order.

[0011] According to some embodiments of the present disclosure, the first time length may be determined based on an amount of time adjustment.

[0012] According to some embodiments of the present disclosure, the filtering of the second order may include: obtaining a current time and a current location of a service provider; and selecting the filtered second order with a second pickup time earlier than the first pickup time.

[0013] According to some embodiments of the present disclosure, the method of providing information for the on-demand service may further include: determining a second time duration based on the current location of the service provider and the second departure location; determining a second time length for completing the second order; determining a third time duration from the destination of the second order to the first departure location; determining a second time interval between the second pickup time and the current time; determining a second time difference based on the second time interval, the second time length, the second time duration, and the third time duration; and selecting the filtered second order based on the second time difference and a second threshold time length.

[0014] According to some embodiments of the present disclosure, the second time length for completing the second order may be determined based on a driving speed of a historical order.

[0015] According to some embodiments of the present disclosure, the second time length may be determined based on an amount of time adjustment.

[0016] According to some embodiments of the present disclosure, the amount of time adjustment may be acquired based on an estimated completion time of the historical order and an actual completion time of the historical order.

[0017] In some examples of the present disclosure, a method of using a system for pushing orders is provided. The method may include: sending location information related to a terminal and time information related to the terminal to a system for

pushing orders by the terminal; and receiving a filtered order generated by the system for pushing orders at the terminal. According to some embodiments of the present disclosure, the method may further include sending a response to the filtered order to the system by the terminal. According to some embodiments of the present disclosure, the terminal may include a driver terminal device.

[0018] In some examples of the present disclosure, a method of using a system for pushing orders is provided. The method may include: sending location information and time information related to an order to a system for pushing orders by a terminal; receiving a filtered order generated by the system in the terminal. According to some embodiments of the present disclosure, the terminal may include a passenger terminal device.

[0018a] According to a first aspect of the present disclosure, there is provided a system for pushing orders, comprising: at least one storage medium including a set of instructions; and at least one processor in communication with the at least one storage medium, wherein when executing the set of instructions, the at least one processor is directed to: receiving first electronic signals encoding information related to at least one first order, the first electronic signals including a first portion of structured data encoding geographic information related to the at least one first order and a second portion of structured data encoding time information related to the at least one first order; and receiving second electronic signals encoding information related to at least one second order, the second electronic signals including a third portion of structured data encoding geographic information related to the at least one second order and a fourth portion of structured data encoding time information related to the at least one second order; filter the at least one second order based on the information related to the at least one first order and the information related to the at least one second order to generate third electronic signals encoding at least one filtered second order; and send the third electronic signals encoding the at least one filtered second order.

[0018b] According to a second aspect of the present disclosure, there is provided a method of pushing orders implemented on an electronic device having at least one

processor and at least one storage medium, the method comprising: receiving, by the electronic device, first electronic signals encoding information related to at least one first order, the first electronic signals including a first portion of structured data encoding geographic information related to the at least one first order and a second portion of structured data encoding time information related to the at least one first order; receiving, by the electronic device, second electronic signals encoding information related to at least one second order, the second electronic signals including a third portion structured data encoding geographic information related to the at least one first order and a fourth portion structured data encoding time information related to the at least one second order; filtering, by the electronic device, the at least one second order based on the information related to the at least one first order and the information related to the at least one second order to generate third electronic signals encoding at least one filtered second order; and sending, by the electronic device, the third electronic signals encoding the at least one filtered second order.

[0018c] According to a third aspect of the present disclosure, there is provided a method of using a system for pushing orders, comprising: sending, by a terminal, fourth electronic signals encoding geographic information related to the terminal and fifth electronic signals encoding time information related to the terminal to a system for pushing orders; and receiving, by the terminal, third electronic signals encoding at least one filtered order generated by the system for pushing orders, wherein the system comprises at least one storage medium storing a set of instruction and at least one processor in communication with the at least one storage medium, wherein when executing the set of instructions, the at least one processor is directed to: receiving first electronic signals encoding information related to at least one first order, the first electronic signals including a first portion of structured data encoding geographic information related to the at least one first order and a second portion of structured data encoding time information related to the at least one first order; and receiving second electronic signals encoding and information related to at least one second

order, the second electronic signals including a third portion of structured data encoding geographic information related to the at least one second order and a fourth portion of structured data encoding time information related to the at least one second order; filter the at least one second order based on the information related to the at least one first order and the information related to the at least one second order to generate the third electronic signals encoding the at least one filtered second order; send the third electronic signals encoding the at least one filtered second order.

BRIEF DESCRIPTION OF THE DRAWINGS

[0019] The present disclosure is further described in terms of schematic embodiments. These schematic embodiments are described in detail with reference to the drawings. The drawings are not to scale. These embodiments are non-limiting schematic embodiments, in which like reference numerals represent similar structures throughout the several views of the drawings, and wherein:

[0020] FIG. 1-A illustrates a schematic diagram of a network environment containing an on-demand service system according to some embodiments of the present disclosure;

[0021] FIG. 1-B illustrates a schematic diagram of a network environment containing an on-demand service system according to another embodiment of the present disclosure;

[0022] FIG. 2 is a schematic diagram of an on-demand service system according to some embodiments of the present disclosure;

[0023] FIG. 3 is a schematic diagram of a processing module of an order pushing engine according to some embodiments of the present disclosure;

[0024] FIG. 4-A is a schematic diagram of a passenger interface of an order pushing engine according to some embodiments of the present disclosure;

What is claimed is:

1. A system for pushing orders, comprising:

at least one storage medium including a set of instructions; and

at least one processor in communication with the at least one storage medium, wherein when executing the set of instructions, the at least one processor is directed to:

receiving first electronic signals encoding information related to at least one first order, the first electronic signals including a first portion of structured data encoding geographic information related to the at least one first order and a second portion of structured data encoding time information related to the at least one first order; and

receiving second electronic signals encoding information related to at least one second order, the second electronic signals including a third portion of structured data encoding geographic information related to the at least one second order and a fourth portion of structured data encoding time information related to the at least one second order;

filter the at least one second order based on the information related to the at least one first order and the information related to the at least one second order to generate third electronic signals encoding at least one filtered second order; and

send the third electronic signals encoding the at least one filtered second order.

2. The system of claim 1, wherein the first portion of structured data encoding the geographic information related to the at least one first order comprises structure data encoding information of a first departure location and structure data encoding information of a first destination,

wherein the second portion of structured data encoding the time information related to the at least one first order comprises structure data encoding information of a first pickup time of the at least one first order,

wherein the third portion of structured data encoding the geographic information related to the at least one second order comprises structured data encoding information of a second departure location and structured data encoding information of a second destination, and

wherein the fourth portion of structured data encoding the time information related to the at least one second order comprises structured data encoding information of a second pickup time of the at least one second order.

3. The system of claim 2, wherein to filter the at least one second order, the at least one processor is configured to:

determine a distance between the first destination and the second departure location; and

select the at least one filtered second order such that the distance between the first destination and the second departure location is less than a threshold distance.

4. The system of claim 3, wherein the at least one processor is further configured to:

determine a first time length for completing the at least one first order;

determine a first time duration from the first destination of the at least one first order to the second departure location of the at least one second order;

determine a first time interval between the second pickup time of the at least one second order and the first pickup time of the at least one first order;

determine a first time difference based on the first time interval, the first time length, and the first time duration; and

select the at least one filtered second order based on the first time difference and a first threshold time length.

5. The system of claim 4, wherein the first time length for completing the at least one first order is determined based on a driving speed of a historical order.

6. The system of claim 4 wherein the first time length is determined based on an amount of time adjustment, which is determined based on an estimated completion time of the historical order and an actual completion time of the historical order.

7. The system of claim 2, wherein to filter the at least one second order, the at least one processor is configured to:

obtain a current time and a current location of a service provider; and

select the at least one filtered second order with a pickup time earlier than the first pickup time of the at least one first order.

8. The system of claim 7, wherein the at least one processor is further configured to:

determine a second time duration from the current location of the service provider to the second departure location of the at least one second order;

determine a second time length for completing the at least one second order;

determine a third time duration from the second destination of the at least one second order to the first departure location of the at least one first order;

determine a second time interval between the second pickup time of the at least one second order and the current time;

determine a second time difference based on the second time interval, the second time length, the second time duration, and the third time duration; and

select the at least one filtered second order based on the second time difference and a second threshold time length.

9. The system of claim 8, wherein the second time length for completing the at least one second order by the at least one processor is determined based on a driving speed of a historical order.

10. The system of claim 8, wherein the second time length is determined based on an amount of time adjustment, which is determined based on an estimated completion time of the historical order and an actual completion time of the historical order.

11. A method of pushing orders implemented on an electronic device having at least one processor and at least one storage medium, the method comprising:

receiving, by the electronic device, first electronic signals encoding information related to at least one first order, the first electronic signals including a first portion of structured data encoding geographic information related to the at least one first order and a second portion of structured data encoding time information related to the at least one first order;

receiving, by the electronic device, second electronic signals encoding information related to at least one second order,

the second electronic signals including a third portion structured data encoding geographic information related to the at least one first order and a fourth portion structured data encoding time information related to the at least one second order;

filtering, by the electronic device, the at least one second order based on the information related to the at least one first order and the information related to the at least one second order to generate third electronic signals encoding at least one filtered second order; and

sending, by the electronic device, the third electronic signals encoding the at least one filtered second order.

12. The method of claim 11, wherein the first portion of structured data encoding the geographic information related to the at least one first order comprises structured data encoding information of a first departure location and structured data encoding information of a first destination,

wherein the second portion of structured data encoding the time information related to the at least one first order comprises structured data encoding information of a first pickup time of the at least one first order,

wherein the third portion of structured data encoding the geographic information related to the at least one second order comprises structured data encoding information of a second departure location and structured data encoding information of a second destination, and

wherein the fourth portion of structured data encoding the time information related to the at least one second order comprises structured data encoding information of a second pickup time of the at least one second order.

13. The method of claim 12, wherein the filtering of the at least one second order comprises:

determining, by the electronic device, a distance between the first destination of the at least one first order and the second departure location of the at least one second order; and

selecting, by the electronic device, the at least one filtered second order such that the distance between the first destination of the at least one first order and the second departure of the at least one filtered second order is less than a threshold distance.

14. The method of claim 13, further comprising:

determining, by the electronic device, a first time length for completing the at least one first order;

determining, by the electronic device, a first time duration from the first destination of the at least one first order to the second departure location of the at least one second order;

determining, by the electronic device, a first time interval between the first pickup time of the at least one first order and the second pickup time of the at least one second order;

determining, by the electronic device, a first time difference based on the first time interval, the first time length, and the first time duration; and

selecting, by the electronic device, the at least one filtered second order based on the first time difference and a first threshold time length.

15. The method of claim 14, wherein the first time length for completing the at least one first order is determined based on a driving speed of a historical order.

16. The method of claim 14, wherein the first time length is determined based on an amount of time adjustment, which is determined based on an estimated completion time of the historical order and an actual completion time of the historical order.

17. The method of claim 12, wherein the filtering of the at least one second order comprises:

obtaining, by the electronic device, structured data encoding a current time and structured data encoding a current location of a service provider; and

selecting, by the electronic device, the at least one filtered second order with a pickup time earlier than the first pickup time of the least one first order.

18. The method of claim 17, further comprising:

determining, by the electronic device, a second time duration from the current location of the service provider to the second departure location of the at least one second order;

determining, by the electronic device, a second time length for completing the at least one second order;

determining, by the electronic device, a third time duration from the second destination of the at least one second order and the first departure location of the at least one first order;

determining, by the electronic device, a second time interval between the second pickup time of the at least one second order and the current time;

determining, by the electronic device, a second time difference based on the second time interval, the second time length, the second time duration, and the third time duration; and

selecting, by the electronic device, the at least one filtered second order based on the second time difference and a second threshold time length.

19. A method of using a system for pushing orders, comprising:

sending, by a terminal, fourth electronic signals encoding geographic information related to the terminal and fifth electronic signals encoding time information related to the terminal to a system for pushing orders; and

receiving, by the terminal, third electronic signals encoding at least one filtered order generated by the system for pushing orders,

wherein the system comprises at least one storage medium storing a set of instruction and at least one processor in communication with the at least one storage medium, wherein when executing the set of instructions, the at least one processor is directed to:

receiving first electronic signals encoding information related to at least one first order, the first electronic signals including a first portion of structured data encoding geographic information related to the at least one first order and a second portion of structured data encoding time information related to the at least one first order; and

receiving second electronic signals encoding and information related to at least one second order, the second electronic signals including a third portion of structured data encoding geographic information related to the at least one second order and a fourth portion of structured data encoding time information related to the at least one second order;

filter the at least one second order based on the information related to the at least one first order and the information related to the at least one second

order to generate the third electronic signals encoding the at least one filtered second order;

send the third electronic signals encoding the at least one filtered second order.

20. The method of claim 19, further comprising:

sending, by the terminal, sixth electronic signals encoding a response to the at least one filtered order to the system, wherein the terminal is a driver terminal device.