SYSTEMS AND METHODS FOR MONITORING ON-ROUTE TRANSPORTATIONS

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority of Chinese Patent Application No. 201610051324.7 filed on January 26, 2016, Chinese Patent Application No. 201610093286.1 filed on February 17, 2016, and Chinese Patent Application No. 201610881276.4 filed on October 9, 2016, the entire contents of each of which are hereby incorporated by reference.

TECHNICAL FIELD

[0002] This application relates generally to management of transportation of services. Specifically, the present disclosure relates to online monitoring of on-route transportation of vehicles.

BACKGROUND

[0003] On-demand services, such as transportation service, hailing services, heavily rely on vehicle management systems for vehicle dispatching. Vehicle management systems employed for taxi and limousine typically use onboard metering devices, radios, and cell phones to dispatch drivers. Such a system typically is not communicative to customer passengers who request the transportation services, and/or does not monitor the distribution of their customers that are waiting for pickup.

SUMMARY

[0004] In some examples of the present disclosure, a system is provided. The system includes at least one processor and a computer-readable storage medium storing a first set of instructions for monitoring a target vehicle. When executing the first set of instructions, the at least one processor is detected to: obtain a driving route of the target vehicle; obtain a reference position on the driving route away from a first current position of the target vehicle; determine a second

current position of the target vehicle after a reference time; determine a distance between the second current position and the reference position is greater than a preset distance; and send a signal to a target terminal indicating that the target vehicle is off-route.

[0005] In some examples of the present disclosure, a method is provided. The method is related to the method of monitoring a target vehicle. The method includes obtaining a driving route of a target vehicle; obtaining a reference position on the driving route away from a first current position of the target vehicle; determining a second current position of the target vehicle after a reference time; determining a distance between the second current position and the reference position is greater than a preset distance; and sending a signal to a target terminal indicating that the target vehicle is off-route.

[0006] In some examples of the present disclosure, a system is provided. The system includes at least one processor and a computer-readable storage medium storing a second set of instructions for sending emergency information. When executing the second set of instructions, the at least one processor is detected to: initiate a transportation transaction between a first party and a second party through an online transportation service platform; send registration information of the second party to the first party; determine an occurrence of an emergency to the first party; and send an emergency alert including a position of the occurrence of the emergency and registration information to a target terminal.

[0007] In some examples of the present disclosure, a method is provided. The method is related to the method of sending emergency information. The method includes initiating a transportation transaction between a first party and a second party through an online transportation service platform; sending registration information of the second party to the first party; determining an occurrence of an emergency to the first party; and sending an emergency alert including a position of the occurrence of the emergency and registration information to a target terminal.

[0008] In some examples of the present disclosure, a system is provided. The system includes at least one processor and a computer-readable storage medium storing a third set of instructions for sending identification information of a safe mode. When executing the third set of instructions, the at least one processor is detected to: establish a communication between a first

party and a second party through an online transportation service platform; obtain the identification information of the safe mode of the first party from the first party; and inform the second party that the first party is in the safe mode upon obtaining the identification information of the safe mode.

[0009] In some examples of the present disclosure, a method is provided. The method is related to the method of sending identification information of a safe mode. The method includes establishing a communication between a first party and a second party through an online transportation service platform; obtaining the identification information of the safe mode of the first party from the first party; and informing the second party that the first party is in the safe mode upon obtaining the identification information of the safe mode.

[0010] In some examples of the present disclosure, a system is provided. The system includes at least one processor and a computer-readable storage medium storing a fourth set of instructions for sending at least one point of interest (POI). When executing the fourth set of instructions, the at least one processor is detected to: initiate a transportation transaction between a first party and a second party through an online transportation service platform; obtain a POI driving route of a first party, wherein the POI driving route includes at least one POI; and send the POI driving route to the first party when the first party is within a predetermined distance from the at least one POI.

[0011] In some examples of the present disclosure, a method is provided. The method is related to the method of sending at least one point of interest (POI). The method includes initiating a transportation transaction between a first party and a second party through an online transportation service platform; obtaining a POI driving route of a first party, wherein the POI driving route includes at least one POI; and sending the POI driving route to the first party when the first party is within a predetermined distance from the at least one POI.

[0011a] In view of the above, according to a first aspect of the present disclosure, there is provided a system, comprising: a bus; a storage medium electronically connected to the bus and storing a set of instructions for sending emergency information; logic circuits electronically connected to the storage medium, wherein when executing the set of instructions, the logic circuits is directed to conduct logic operation to: initiate a transportation transaction between a

first party and a second party through an online transportation service platform; send registration information of the second party to the first party; determine an occurrence of an emergency to the first party; and send an emergency alert including a position of the occurrence of the emergency and the registration information to a target terminal.

[0011b] In view of the above, according to a second aspect of the present disclosure, there is provided a method for sending emergency information, comprising: initiating, by at least one electronic device of an online transportation service platform, a transportation transaction between a first party and a second party through the online transportation service platform; sending, by the at least one electronic device, registration information of the second party to the first party; determining, by the at least one electronic device, an occurrence of an emergency to the first party; and sending, by the at least one electronic device, an emergency alert including a position of the occurrence of the emergency and the registration information to a target terminal.

[0012] Additional features will be set forth in part in the description which follows, and in part will become apparent to those skilled in the art upon examination of the following and the accompanying drawings or may be learned by production or operation of the examples. The features of the present disclosure may be realized and attained by practice or use of various aspects of the methodologies, instrumentalities and combinations set forth in the detailed

CLAIMS

1. A system, comprising:

a bus;

a storage medium electronically connected to the bus and storing a set of instructions for sending emergency information;

logic circuits electronically connected to the storage medium, wherein when executing the set of instructions, the logic circuits is directed to conduct logic operation to:

initiate a transportation transaction between a first party and a second party through an online transportation service platform;

send registration information of the second party to the first party;

determine an occurrence of an emergency to the first party; and

send an emergency alert including a position of the occurrence of the emergency and the registration information to a target terminal.

2. The system of claim 1, wherein the first party accesses the online transportation platform via a first user terminal,

the second party accesses the online transportation platform via a second user terminal; and

to send the registration information of the second party to the first party, the at least one processor is further directed to:

send the registration information to the first user terminal.

3. The system of claim 2, wherein the second user terminal is an electronic device associated with a driver of a vehicle,

the first user terminal is an electronic device associated with a passenger of the vehicle; and

the registration information of the second party includes at least one of

registered identification information of the vehicle,

driver identity information of the vehicle, or

a registration image of the vehicle.

4. The system of claim 2, wherein the first user terminal is an electronic device associated with a driver of a vehicle,

the second user terminal is an electronic device associated with a passenger of the vehicle; and

the registration information of the second party includes identity information of the passenger.

5. The system of claim 1, wherein to send the emergency alert to the target terminal, the logic circuits further conduct logic operation to:

upon determining of the occurrence of the emergency, instruct the first user terminal to display an interface with an alert button, wherein the alert button is configured to cause the first user terminal to send an emergency confirmation signal when the alert button is activated;

receive the emergency confirmation signal from the first user terminal; and

send the emergency alert to the target terminal, wherein the target terminal is at least one of a third party terminal, a predefined platform, or a data center.

6. The system of claim 1, wherein the logic circuits further conduct logic operation to:

send a current position of the second party to the first party.

7. The system of claim 3, wherein the logic circuits further conduct logic operation to:

send a first reminder to the first user terminal to remind the passenger to check whether actual identification information of the vehicle is consistent with the registered identification information.

8. The system of claim 7, wherein the logic circuits further conduct logic operation to:

obtain an image of the vehicle through the first user terminal;

generate a second reminder upon obtaining the image of the vehicle; and

send the second reminder to the second user terminal to remind the driver that the image of

the vehicle has been taken and uploaded.

9. The system of claim 1, wherein the logic circuits further conduct logic operation to:

obtain the identification information of the safe mode of the first party from the first party; and

inform the second party that the first party is in the safe mode upon obtaining the identification information of the safe mode.

10. The system of claim 1, wherein the logic circuits further conduct logic operation to:

obtain a POI driving route of the first party, wherein the POI driving route includes at least one POI; and

send the POI driving route to the first party when the first party is within a predetermined distance from the at least one POI.

11. A method for sending emergency information, comprising:

initiating, by at least one electronic device of an online transportation service platform, a transportation transaction between a first party and a second party through the online transportation service platform;

sending, by the at least one electronic device, registration information of the second party to the first party;

determining, by the at least one electronic device, an occurrence of an emergency to the first party; and

sending, by the at least one electronic device, an emergency alert including a position of the occurrence of the emergency and the registration information to a target terminal.

12. The method of claim 11, wherein the first party accesses the online transportation platform via a first user terminal,

the second party accesses the online transportation platform via a second user terminal; and

the sending of the registration information of the second party to the first party includes sending the registration information to the first user terminal.

13. The method of claim 12, wherein the second user terminal is an electronic device associated with a driver of a vehicle,

the first user terminal is an electronic device associated with a passenger of the vehicle; and

the registration information of the second party includes at least one of

registered identification information of the vehicle,

driver identity information of the vehicle, or

a registration image of the vehicle.

14. The method of claim 12, wherein the first user terminal is an electronic device associated with a driver of a vehicle,

the second user terminal is an electronic device associated with a passenger of the vehicle; and

the registration information of the second party includes identity information of the passenger.

15. The method of claim 11, wherein the sending of the emergency alert to the target terminal includes:

upon determining of the occurrence of the emergency, instructing, by the at least one electronic device, the first user terminal to display an interface with an alert button, wherein the alert button is configured to cause the first user terminal to send an emergency confirmation signal when the alert button is activated;

receiving, by the at least one electronic device, the emergency confirmation signal from the first user terminal; and

sending, by the at least one electronic device, the emergency alert to the target terminal, wherein the target terminal is at least one of a third party terminal, a predefined platform, or a data center.

16. The method of claim 11, further comprising:

sending, by the at least one electronic device, a current position of the second party to the first party.

17. The method of claim 13, further comprising:

sending, by the at least one electronic device, a first reminder to the first user terminal to remind the passenger to check whether actual identification information of the vehicle is consistent with the registered identification information.

18. The method of claim 17, further comprising:

obtaining, by the at least one electronic device, an image of the vehicle through the first user terminal;

generating, by the at least one electronic device, a second reminder upon obtaining the image of the vehicle; and

sending, by the at least one electronic device, the second reminder to the second user terminal to remind the driver that the image of the vehicle has been taken and uploaded.

19. The method of claim 11, further comprising:

obtaining, by the at least one electronic device, the identification information of the safe mode of the first party from the first party; and

informing, by the at least one electronic device, the second party that the first party is in the safe mode upon obtaining the identification information of the safe mode.

20. The method of claim 11, further comprising:

obtaining, by the at least one electronic device, a POI driving route of the first party, wherein the POI driving route includes at least one POI; and

sending, by the at least one electronic device, the POI driving route to the first party when the first party is within a predetermined distance from the at least one POI.