The present disclosure enables a user to establish a user identity for a ride or vehicle, where the user identity is identifiable with an identifier. The system according to the present disclosure also manages the alert signal according to pre-configured protocols.

The system enables a travel co-ordination server to process an identifier to co-ordinate travel requests and alert signals.

According to a first aspect, the present disclosure refers to a helmet for detecting a likelihood of an accident, comprising: a sensor configured to detect a signal relating to a user wearing the helmet, the signal including information at a point in time for the user; and a processor configured to communicate with the sensor and to: determine if there is the likelihood of the accident in response to receiving the signal; generate an alert signal in response to the determination, the alert signal indicating there is the likelihood of the accident; wherein the helmet further comprises an input sensor configured to detect a signal indicative of a start of a trip by the user, and the alert signal is triggered by an input received via a button that is located on the helmet; and a recorder configured to record an audio message in response to the receipt of the signal indicative of the start of the trip, wherein the processor is further configured to encrypt the audio message and send the encrypted audio message to a server.

According to a second aspect, the present disclosure refers to a method of detecting a likelihood of an accident, comprising: detecting, by a sensor, a signal relating to a user wearing a helmet, the signal including information at a point in time for the user; and determining, by a processor, if there is the likelihood of the accident in response to receiving the signal; generating, by the processor, an alert signal in response to the determination, wherein the sensor and the processor are located on the helmet; wherein the method further comprises detecting, by an input sensor, a signal indicative of a start of a trip by the user, and receiving an input, the input being received via a button that is located on the helmet, wherein the alert signal is triggered by the input; recording an audio message in response to the receipt of the signal indicative of the start of a trip; encrypting the audio message; and sending the encrypted audio message to a server.

According to a third aspect, the present disclosure refers to a method of detecting a likelihood of an accident of a user wearing a helmet, comprising: receiving, by a server, an alert signal indicating there is the likelihood of the accident, and sending, by the server, a request message requesting assistance to the user, wherein the server is at least one of travel co-ordination server or a remote assistance server; wherein the method further comprises detecting, by an input sensor, a signal indicative of a start of a trip by the user, receiving, by the server, another signal indicating the start of the trip, and receiving an input, the input being received via a button that is located on the helmet, wherein the alert signal is triggered by the input; recording an audio message in response to receiving the signal indicative of the start of the trip; encrypting the audio message; and sending the encrypted audio message to a server.

**Brief Description of the Drawings**

Some aspects of at least one embodiment of the present invention will now be described with reference to the drawings and appendices, in which:

Fig. 1 shows a system to detect a likelihood of accident according to an aspect of the present disclosure;

CLAIMS

1. A helmet of detecting a likelihood of an accident, comprising:

a sensor configured to detect a signal relating to a user wearing the helmet, the signal including information at a point in time for the user; and

a processor configured to communicate with the sensor and to:

determine if there is the likelihood of the accident in response to receiving the signal;

generate an alert signal in response to the determination, the alert signal indicating there is the likelihood of the accident; wherein the helmet further comprises:

an input sensor configured to detect a signal indicative of a start of a trip by the user, and the alert signal is triggered by an input received via a button that is located on the helmet; and

a recorder configured to record an audio message in response to the receipt of the signal indicative of the start of the trip, wherein the processor is further configured to encrypt the audio message and send the encrypted audio message to a server.

2. The helmet according to claim 1, wherein the alert signal is further triggered by an input received via an application running on a device.

3. The helmet according to claim 1, wherein the recorder is configured to continue recording an audio message in response to the generation of the alert signal.

4. The helmet according to claim 1, wherein the sensor comprises a navigation sensor that is configured to detect location information and time information of the user, the information included in the signal comprises the location information and the time information of the user.

5. The helmet according to claim 1, wherein the sensor comprises a gyroscope sensor configured to detect location orientation and angular velocity of the user.

6. The helmet according to claim 1, further comprising at least a proximity sensor to detect if the helmet is worn properly.

7. The helmet according to claim 1, further comprising a noise cancelling module to cancel noise that is included in the recorded audio message.

8. The helmet according to claim 7, further comprising a transmitter that is configured to transmit at least one of the recorded audio message and alert signal wirelessly.

9. A method of detecting a likelihood of an accident, comprising:

detecting, by a sensor, a signal relating to a user wearing a helmet, the signal including information at a point in time for the user; and

determining, by a processor, if there is the likelihood of the accident in response to receiving the signal;

generating, by the processor, an alert signal in response to the determination, wherein the sensor and the processor are located on the helmet;

wherein the method further comprises:

detecting, by an input sensor, a signal indicative of a start of a trip by the user, and receiving an input, the input being received via a button that is located on the helmet, wherein the alert signal is triggered by the input;

recording an audio message in response to the receipt of the signal indicative of the start of a trip;

encrypting the audio message; and

sending the encrypted audio message to a server.

10. The method according to claim 9, further comprising:

receiving the input via an application running on a device.

11. The method according to claim 9, further comprising:

transmitting at least one of the recorded audio message and alert signal wirelessly.

12. A method of detecting a likelihood of an accident of a user wearing a helmet, comprising:

receiving, by a server, an alert signal indicating there is the likelihood of the accident, and

sending, by the server, a request message requesting assistance to the user, wherein the server is at least one of travel co-ordination server or a remote assistance server;

wherein the method further comprises detecting, by an input sensor, a signal indicative of a start of a trip by the user,

receiving, by the server, the signal indicating the start of the trip, and

receiving an input, the input being received via a button that is located on the helmet, wherein the alert signal is triggered by the input;

recording an audio message in response to receiving the signal indicative of the start of the trip;

encrypting the audio message; and

sending the encrypted audio message to a server.

13. The method according to claim 12, further comprising:

sending resources to a location identified by location information included in the alert signal.

14. The method according to claim 12, further comprising:

updating a database in response to receiving the alert signal.