CLAIMS

What is claimed is:

1. A universal fare payment and collection system, the system comprising one or more storage machines holding instructions executable by one or more logic machines to:

via a traveler's electronic device, employ an interoperability application to schedule, book and plan a trip leg by leg via a plurality of different transportation systems;
via the traveler's electronic device, determine a user location, display nearby transportation systems at the user location, and select a first nearby transportation system;

via the traveler's electronic device, identify a first ticketing technology of the selected first nearby transportation system for a first leg of the trip;

configure the traveler's electronic device for authorizing payment of at least one of a ticket and pass via the first ticketing technology selected from a plurality of different ticketing technologies that are each identifiable by the system as being usable in the selected first nearby transportation system;

via the traveler's electronic device, identify a second ticketing technology of a second nearby transportation system for a second leg of the trip, the second ticketing technology being one of a plurality of ticketing technologies different from the first ticketing technology and identifiable by the system as being usable in the selected second nearby transportation system;

configure the traveler's electronic device for authorizing at least one of a ticket and pass via the second ticketing technology;

wherein the nearby transportation systems are determined via a GPS subsystem.

2. The universal fare payment and collection system of claim 1, wherein after the traveler's device is automatically configured for authorizing at least one of a ticket and pass via the second ticketing technology operations are executable to:

detect an access control technology of an access restricted area; and

configure the traveler's electronic device for authorizing access to the access restricted

area.

3. The universal fare payment and collection system of claim 1, wherein the first and second ticketing technologies further comprise one of NFC technology, contactless card reader technology, QR code, HTTP API Purchase, EMV credit card, and a Bluetooth technology.

4. The universal fare payment and collection system of claim 1, wherein the instructions are executable to run an algorithm to detect or determine a specific ticketing technology by determining a geographic location of the traveler's electronic device in real time and using the geographic location for identifying the specific ticketing technology for a specific transportation system nearby the geographic location of the traveler's electronic device.

5. The universal fare payment and collection system of claim 1, wherein the nearby transportation systems are each in different public transportation authorities.

6. The universal fare payment and collection system of claim 5, wherein the system allows a user to pay for at least one of tickets and passes of each of the transportation authorities.

7. A universal fare payment and collection system, the system comprising one or more storage machines holding instructions executable by one or more logic machines to:

via a traveler's electronic device, employ an interoperability application to schedule, book and plan a trip leg by leg via a plurality of different transportation systems;
via the traveler's electronic device, determine a user location, display nearby transportation systems at the user location, and select a first nearby transportation system;
via the traveler's electronic device, automatically identify a first ticketing technology of a selected first nearby transportation system for a first leg of the trip, the first ticketing technology being one of a plurality of different ticketing technologies that are each automatically identifiable by the system as being usable in a particular transportation system of a plurality of different transportation systems;

automatically configure the traveler's electronic device for initiating a first communication between the traveler's electronic device and the first ticketing technology and authorizing

at least one of a ticket and pass in response to the first communication;

via the traveler's electronic device, automatically identify a second ticketing technology of a second nearby transportation system for a second leg of the trip, the second ticketing technology being different from the first ticketing technology, and the second ticketing technology being one of a plurality of different ticketing technologies that are each automatically identifiable by the system as being usable in a particular transportation system of a plurality of different transportation systems;

automatically configure the traveler's electronic device for initiating a second communication between the traveler's electronic device and the second ticketing technology and authorizing at least one of a ticket and pass in response to the second communication;

wherein the second communication has a different protocol than the first communication; and

wherein the nearby transportation systems are determined via a GPS subsystem.

8. The universal fare payment and collection system of claim 7, wherein the first and second ticketing technologies are at least one of NFC technology, contactless card reader technology, QR code, EMV credit card, and a Bluetooth technology.

9. The universal fare payment and collection system of claim 7, wherein the instructions are executable to:

run an algorithm to detect or determine a specific ticketing technology among a plurality of automatically identifiable ticketing technologies, the plurality of automatically identifiable ticketing technologies including NFC, BLE, contactless card, EMV credit card, and QR code technologies;

wherein if the ticketing technology is determined as being NFC, the traveler's device is configured for NFC communication protocol for initiating an NFC communication between the traveler's device and an NFC reader of a transportation system to authorize at least one of a ticket and pass through the NFC communication;

wherein if the ticketing technology is determined as being BLE, the traveler's device is

configured for BLE communication protocol for initiating a BLE communication between the traveler's device and a BLE reader of a transportation system to authorize at least one of a ticket and pass through the BLE communication;

wherein if the ticketing technology is determined as requiring a contactless card, a virtual contactless card is configured on a secure element of the traveler's device for initiating contactless card communication between the traveler's device and a contactless card reader of a transportation system to authorize at least one of a ticket and pass through the contactless card communication;

wherein if the ticketing technology is determined as being EMV credit card, the traveler's device is configured for EMV credit card communication protocol for initiating an EMV credit card communication between the traveler's device and an EMV credit card reader of a transportation system to authorize at least one of a ticket and pass through the EMV communication; and

wherein if the ticketing technology is determined as being QR code, the traveler's device is configured for QR code communication for initiating a QR code communication between the traveler's device and a QR code reader of a transportation system to authorize at least one of a ticket and pass through the QR code communication.

10. The universal fare payment and collection system of claim 7, wherein the nearby transportation systems are each in different public transportation authorities.

11. The universal fare payment and collection system of claim 10, wherein the system allows a user to pay for at least one of tickets and passes of each of the transportation authorities.

12. A universal fare payment and collection system, the system comprising one or more storage machines holding instructions executable by one or more logic machines to:

via a traveler's electronic device, employ an interoperability application to schedule, book and plan a trip leg by leg via a plurality of different transportation systems;

via the traveler's electronic device, automatically identify a first ticketing technology of a first nearby transportation system for a first leg of a trip, the first ticketing technology being one of a plurality of different ticketing technologies that are each automatically

identifiable by the system as being usable in a particular transportation system of a plurality of different transportation systems;

automatically configure the traveler's electronic device for initiating a first communication between the traveler's electronic device and the first ticketing technology and authorizing at least one of a ticket and pass in response to the first communication;

via the traveler's electronic device, automatically identify a second ticketing technology of a second nearby transportation system for a second leg of the trip, the second ticketing technology being different from the first ticketing technology, and the second ticketing technology being one of a plurality of different ticketing technologies that are each automatically identifiable by the system as being usable in a particular transportation system of a plurality of different transportation systems;

automatically configure the traveler's electronic device for initiating a second communication between the traveler's electronic device and the second ticketing technology and authorizing at least one of a ticket and pass in response to the second communication;

wherein the second communication has a different protocol than the first communication; wherein the nearby transportation systems are determined via a GPS subsystem;

wherein the first and second ticketing technologies are one of NFC technology, contactless card reader technology, QR code, EMV credit card, and Bluetooth technology;

wherein the instructions are executable to run an algorithm to detect or determine a specific ticketing technology for use with a specific transportation system;

wherein the nearby transportation systems are each in different public transportation authorities (PTAs);

wherein the system allows a user to pay for at least one of tickets and passes of each of the transportation authorities.

13. The universal fare payment and collection system of claim 12, wherein the instructions are executable to:

display a schedule of each of the transportation authorities.

14. The universal fare payment and collection system of claim 12, wherein the instructions are executable to:

determine a public transportation authority authorization method.

15. The universal fare payment and collection system of claim 12, wherein the instructions are executable to:

determine a mobile device protocol.

16. The universal fare payment and collection system of claim 12, wherein the instructions are executable to:

determine if an access method is Host Card Emulation (HCE).

17. The universal fare payment and collection system of claim 12, wherein the instructions are executable to:

automatically configure a passenger device for a specific contactless reader of a public transportation authority.

18. The universal fare payment and collection system of claim 12, wherein the instructions are executable to:

determine an access type, wherein the access type is a contactless reader.

19. The universal fare payment and collection system of claim 12, wherein the instructions are executable to:

determine an access type, wherein the access type is at least one of a BLE system, an NFC system, contactless credit card, QR code, and an EMV credit card.

20. The universal fare payment and collection system of claim 12, wherein the instructions are executable to:

determine an access type, wherein the access type is an electronic ticketing standard microprocessor for contactless smart cards.