

Unified transport ticketing interface (UTTI)

Organization Name: HERE TECHNOLOGIES

Overview:

When you travel from point A to point B, you most probably need to take multiple modes of transport. What if, we bring all modes of transport in a unified interface to enable a fast, cost efficient, environment friendly and hassle-free travel with a single ticket? A Start-up can use the HERE location platform and collaborate with Ministry of Road Transport and Highways, Indian Railways, State Transport department, Traffic Department and other private players to build a seamless travel platform. Government of India has a mission to develop 100 smart cities across the country which are sustainable and citizen friendly. This game changing platform will aid in that mission.

Current Challenges

It is common, for many people in a city to use multiple mode of transport such as public bus service, city railway transit, metro, monorail, app-based cab service, autorickshaw, ride sharing cab, ride sharing bus, bike sharing, cycle. Currently there is no mechanism to travel from one location to another location using a single ticket; the larger the city the greater is the need for it. With an increasing urban population in India that is projected to more than double to 590 million by 2030, the traffic situation is set to worsen.

The benefit of creating a Unified Ticketing system backbone infrastructure is that the transport department could optimize the routes, there is possibility to track traffic flows and manage it. This would save the fuel cost and huge saving of forex and contributing to GDP. The traveller will save time, cost and travel in an environment friendly manner. It will encourage people to use public transport resulting in lesser number of cars on road. The Government of India has taken a note of urban mobility issues in the Smart Cities Mission. It has stated that the building blocks of smart cities in India should include efficient urban mobility and public transport.

Business Requirements:

Define a transport vendor neutral charter and create open standard for transport infrastructure to enable secure, cost-effective and flexible fare collection. The open standard will allow the transport vendor to create a business model using the open standard and help them in revenue generation. This will enable the vendors to capitalize on the compatibility between mobile devices, plastic card, QR technology, IOT devices and allow introduction of new technology. The Urban transport Ticketing system infrastructure would provide interface to integrate independent ticketing system from different transport companies. Any transport company can plugin to the Ticketing system hub to provide seamless journey. The platform will be built which can integrate with transport companies like IRCTC, Metro Company, City Bus Transport companies such as BEST, Cab Aggregators such as Ola, Uber.

Any user who signs into the platform needs to be KYC compliant using Aadhar biometric verification to remove redundancy and make the city more secure to reduce the road accident, city crime rate. Anonymized data can be used to identify travel patterns and shared to the transport department. For users having feature phone, the Unstructured Supplementary Service Data (USSD) protocol can get user to share the ticket id.

HERE location platform can perform analytics on the sensor data received from vehicles for real time updates. HERE location platform and traffic