README

We have built a solution for the mobility vertical that gives users access to a range of mobility services via a single app.

- Trains
- Buses
- Trams
- Ferries
- Ropeways
- Flights
- Car rental
- Bike rental
- Car sharing services
- And more...

The system is a combination of node server that connects to the Stellar blockchain and an Android app for the end user.

Node Server - https://github.com/kimeoapp/kaoru-server Android App- https://github.com/kimeoapp/kaoru-android

Android app

https://sbhack-video-submission.s3.eu-central-1.amazonaws.com/team11/kar.apk

How it Works:

- We have used the train service as sample use case.
- The user scans the QR code at the beginning of the service, the system deducts a
 deposit, defined the Config JSON, from the User wallet and deposits it to a shared Trip
 wallet. (Boarding Station)

Boarding Station Sample QR (Scan with demo app to test)



 The user scans the QR code at the end of the service, the system sends the payable fare, defined the Config JSON, to a Shared Service wallet and the balance back to the User wallet. (Deboarding station)

Deboarding Station Sample QR (Scan with demo app to test)



- If the user uses the service multiple times during a billing cycle, defined the Config JSON, the Shared Service wallet keeps accumulating the fare.
- At the end of the billing cycle the discount policy, available in the Config JSON, is applied (10% discount on 15+ trips). The discounted fare is transferred to the Service provider wallet and the balance is transferred back to the User wallet.
- The system also credits the user with Green and Black credits for use of environment friendly services. The credits per service are also available in the JSON Config.

• There could be a marketplace in the future that allows people to offset their Black credits by paying the holders of Green credits.

Scalability:

The system has been designed to take JSON object as an input config so a range of services can be added by adding different config parameters.

The app pulls the config based on the QR code.

The gateway to the app is just a QR code, the app pulls the cofig file for the service from the server when a QR code is scanned.

The QR codes can be printed and applied to service delivery centers, each QR code will have the config file address and the location info.