

Safety Challenges



Fatalities due to road accidents



Accidents due to trucks



Accidents due to Humn Error



Safety top on UN agenda



Cost on healthcare system



Cost to Transport company

Safety Issue – is two dimensional

Road worthiness of vehicles

- Vehicles with poorsafety condition
- Vehicle still on road after its expiry
- Vehicle with poor service and maintenance hisroty

- Road worthiness of drivers
 - Uneducated driver
 - Driver with poor driving history
 - Drivers in hurry

Safety Challenges

- # of fatalities each year due to road accidents
- # of trucks engaged in accidents
- # of accidents due to human errors and poor vehicle conditions
- Road Safety is on top of UN agenda
- Impact on health care system
- Amount Transport companies spend on legal litigation

Backup slide

Issue is two dimensional

- Road worthiness of drivers
 - Uneducated driver
 - Driver with poor driving history
 - Drivers in hurry
- Road worthiness of vehicles
 - Vehicles with poor safety condition
 - Vehicle still on road after its expiry
 - Vehicle with poor service and maintenance history

Why Blockchain

- Immutability
- Remove the Intermediary
- Auditability
- Transparency & Trust
- Speed of reconciliation
- Privacy & Security

Service concept – Log key transaction on blockchain

Driver history on blockchain

- · Kms driven
- Accidents
- Breaking
- Harsh maneuvering
- Fuel consumption
- · Driver hours



Vehicle history on blockchain

- Service history
- Accident history
- Key safety parameters
 - Tire depth
 - · Break pad wareout
 - Lights
 - Windshield

- Vehicle logged data
 - Kms driven
 - GVW
 - Breaking
 - · Harsh maneuvering
 - Fuel consumption

Technical concept

OEM vehicle logged data

- Driver ID
- Kms driven
- Breaking
- Harsh maneuvering
- Fuel consumption
- Driver hours



Vehicle history on blockchain

Driver history on blockchain



- Delivery date
- Customer info
- Vehicle spec
- Chassis ID

Dealer



Service history

- Service date
- Service operations
 - · Tire depth
 - Brake pad wear out
 - Lights
 - Windshield
 - (Dealers ID



Accident history

- Chassis ID
- Date of incident
- Parts replaced
- Driver Name/License ID

Dealer



- Vehicle logged data
 - Chassis ID
 - GVW
 - Breaking
 - Harsh maneuvering

Accident history

Dealer

Fuel consumption

OEM vehicle logged data

Use cases

roles

Use case 1:

- Transport company: Buys a truck. from Dealer
 - <u>Transaction</u> logged from <u>Dealer</u>: Delivery date, Chassis ID, Customer Name, GVW (gross vehicle weight), Fuel type, application,

Screen#1 Need a screen to show the transaction

Use case 2:

- Vehicle is in use:
 - Transaction is is logged from the Truck: Chassis ID, GVW, Breaking, Harsh maneuvering, Fuel consumption (logged every month)

Use case 3:

- Vehicle goes to dealer for service.
 - Transaction logged from the Dealer: Chassis ID, Date of Service, Service operations, Tire depth, break pad status, lights status, windshield status

Screen#2 Need a screen to show the transaction

Use case



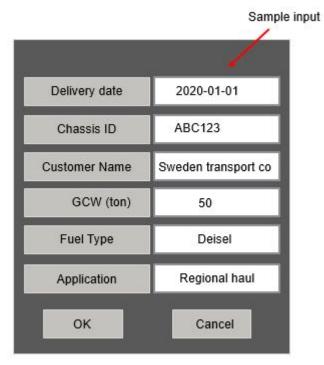
Use case 4:

- Vehicle gets has an incident.
 - Transaction logged from the Dealer: Chassis ID, Date of incident damage report, parts replaced, Driver Name, License no.

Screen#3 Need a screen to show the transaction

Screen Designs

Screen# 1: For use case 1

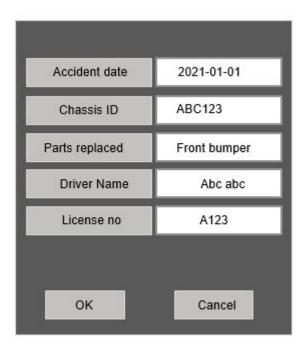


Screen# 2: For use case 3



Screen Designs

Screen# 4: For use case 3



Business scope

Drivers

 An online resume of safe driving



Transport ocmpanies

- Driver history
 - Promote safedriving
 - Safe guard agaist litigations
- Vehicle history
 - Resale value

Lease and Rental companies

Transport authorities

- Track old vehicles
- <u>Track unsafe vehicles</u> <u>from road</u>

Insurance companies

<u>Driver and Vehicle</u>
 <u>history for insurance</u>
 <u>premium</u>