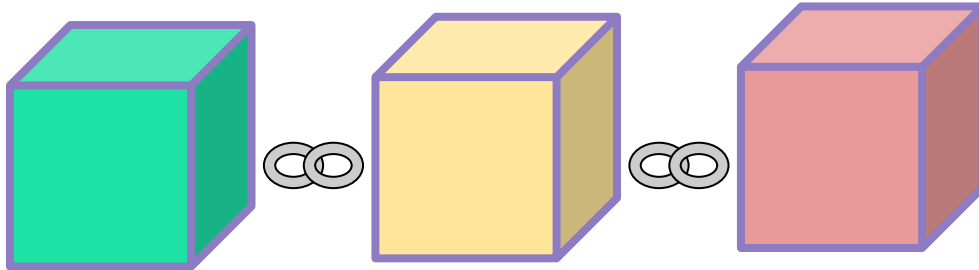# IS4302

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Our Use Case

Second hand car dealing system

With blockchain, we want to

1) Ensure that all information presented to the buyer is trusted

2) Shorten second hand car dealing process

3) Allow for the tracing of ownership and history

4) Alleviate the need for a middleman

With blockchain, we want to

1) Ensure that all information presented to the buyer is trusted
   - Allows the regulator to verify the user's driving license
   - Allows the insurer to verify insurance documents
   - Inspector creates the inspection document directly
2) Shorten second hand car dealing process
3) Allow for the tracing of ownership and history
4) Alleviate the need for a middleman

With blockchain, we want to

1) Ensure that all information presented to the buyer is trusted

2) Shorten second hand car dealing process

   ○ Brings all parties into a decentralized platform

3) Allow for the tracing of ownership and history

4) Alleviate the need for a middleman

With blockchain, we want to

1) Ensure that all information presented to the buyer is trusted

2) Shorten second hand car dealing process

3) Allow for the tracing of ownership and history

   - Integrated parts of the car lifecycle to properly allow the tracing of ownership and history

   - Process starts from buy new car function and ends with a scrap car function

4) Alleviate the need for a middleman

With blockchain, we want to

1) Ensure that all information presented to the buyer is trusted

2) Shorten second hand car dealing process

3) Allow for the tracing of ownership and history

4) Alleviate the need for a middleman

   ○ Consumer to consumer platform

   ○ Seller list cars

   ○ Buyer makes an offer through the seller's listing
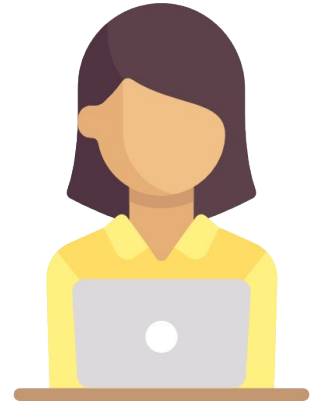
Our Implementation

Participants

Regulator (LTA)

Insurance Company

Inspection Company

User (Buyer/Seller)

Assets

CAR

DRIVING LICENCE

COE

INSURANCE DOCUMENT

CAR LISTING

INSPECTION DOCUMENT

Transactions

NewCar	CreateNewDrivingLicense
TakeTrip	NewInspectionDocument
PutCarOnSale	VerifyCOE
Offer	VerifyDrivingLicence
UpdateOfferPrice	VerifyInsuranceDocument
CompleteSale	ViewCarThroughListing
DeleteListing	ScrapCar
CreateInsuranceDocument	LoginInfo

Demo