IDEATION : CAR PASS – CONCEPT INTRODUCTION

There is no proficient mechanism in place, in today's world that can essentially give the True Value of a Secondary car. Today we rely on Agents, Salesman and Middle Men to come to a negotiated car price, for making a sale than looking at its true and trusted attributes:

'Innogy' brought Volkswagen Financial Services (VWFS), a provider of automotive financial services, to testify along with their vehicle's telematics data to explore ways in which this problem could be solved.

While this is exaggerated, it resonates with people of today because there is a lack of trust during such a real-life transaction

Ranging from fuel consumption to mileage and damages data, this telematics data is collected by boxes installed inside vehicles and transmitted to a central database

With even the most trustworthy of sales guys, items like a used car may come with title and registration papers, but verifying the documents of an item that has had multiple owners in potentially multiple places is next to impossible

The hope was to build a prototype, presenting the complete usage and ownership of the vehicle, which could be used as a car pass certificate or car passport

PRELUDE   IDEATION

How can one assess its true value, when one has no idea where it really came from?

By aggregating all the data for a particular vehicle, the history of a car's life could help provide transparency at all levels

Cars are particularly tricky as secondary market sales affect the entire market and the risk to the individual buyer is quite high from a monetary standpoint compared to other items

To have the Car Pass executed for Volkswagen, Innogy partnered with Digi Labs, & BigChainDB to come with a prototype solving the issue for the 'Secondary Used' Car Market
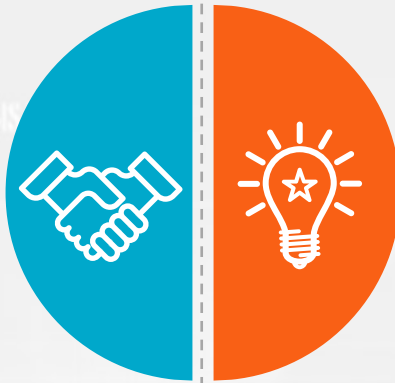
ENTERPRISE CAR PASS PILOT

Tech Blocks: At the end of the ideation phase, a Digital Application for a digital car pass prototype was presented that leverages data provided by VWFS, BigchainDB as a datastore and Microsoft's Azure cloud platform and IoT Hub. The Entire application front end was further automated using 'Bots' developed by Digi Labs team

Solution Objective :

A digital car pass could be presented to any buyer and provide all the relevant data, as a complement to or replacement of a physical log book. The immutable record of a car's history would include inspection, maintenance and services in addition to mileage and fuel consumption.

CAR PASS SOLUTION OVERVIEW

Data produced by telemetry devices is sent to Azure's IoT Hub

The IoT Hub provides secure device authentication and message handling capabilities, this ensures that all data is coming from trusted devices

Once the data is ready at the IoT Hub another process would compile this data and insert it into BigchainDB. In this scenario a vehicle is an asset in BigchainDB and any new telemetry data related to that vehicle will be appended to the asset

Once this data is written, BigchainDB makes sure that it can never be changed again. Each new piece of telemetry data has enough information for anyone with access to the data to verify that it came from a trusted telemetry device and that it was "vouched" for by VWFS
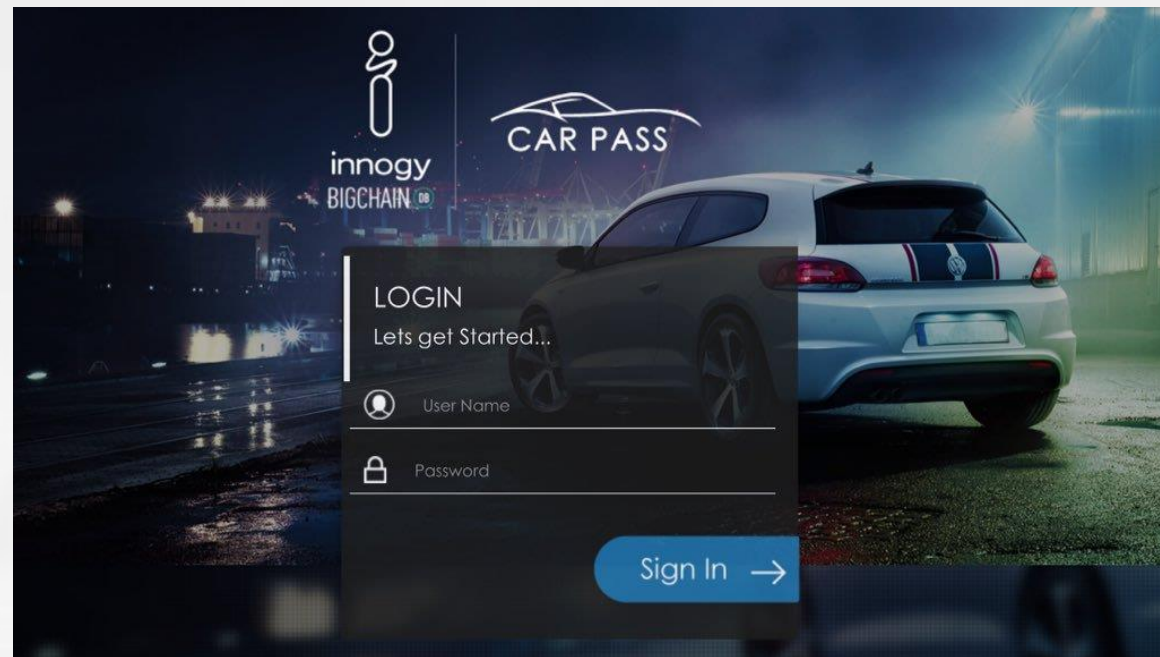
CAR PASS

INTEGRATION OF BLOCKCHAIN, AI & IOT

Digi Labs Engagement: In the endeavor and vision of Digi Labs to establish a long standing relationship with Innogy, Digi Labs contributed towards developing the entire Car Pass application for Innogy

Having developed the application on Open Source platforms & wraps like React .JS, Digi Labs worked on prototype development and integration of the Prototype with **Blockchain & IoT Telematics Data**
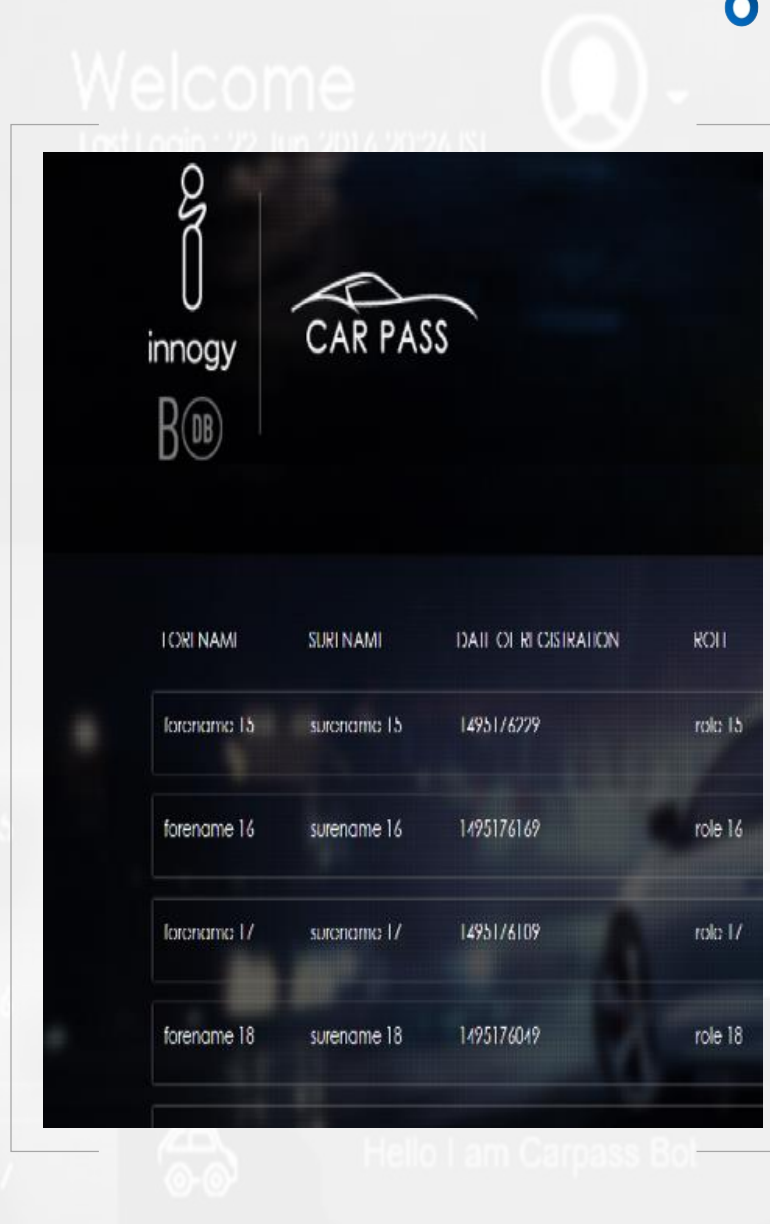
HOW DOES THE **'BOT 360'** HELP?

Value Addition: In our endeavour to become a value added partner to Innogy, Digi Labs further showcased the usability of the application by creating a Bot360 on the pilot, to automate the front end using AI, RPA & NLP technologies

Our intent was to integrate that with BigChain DB backend

This creates an additional impact to Innogy's End Consumers in terms of an enhanced Customer Experience, making the interactions Intuitive, Engaging and Agile with Text/Voice Over Controls and an unmatched UI/UX experience

The Prototype BOT has been also integrated with Social Media Platforms like Slack, Skype, Facebook, & Twitter
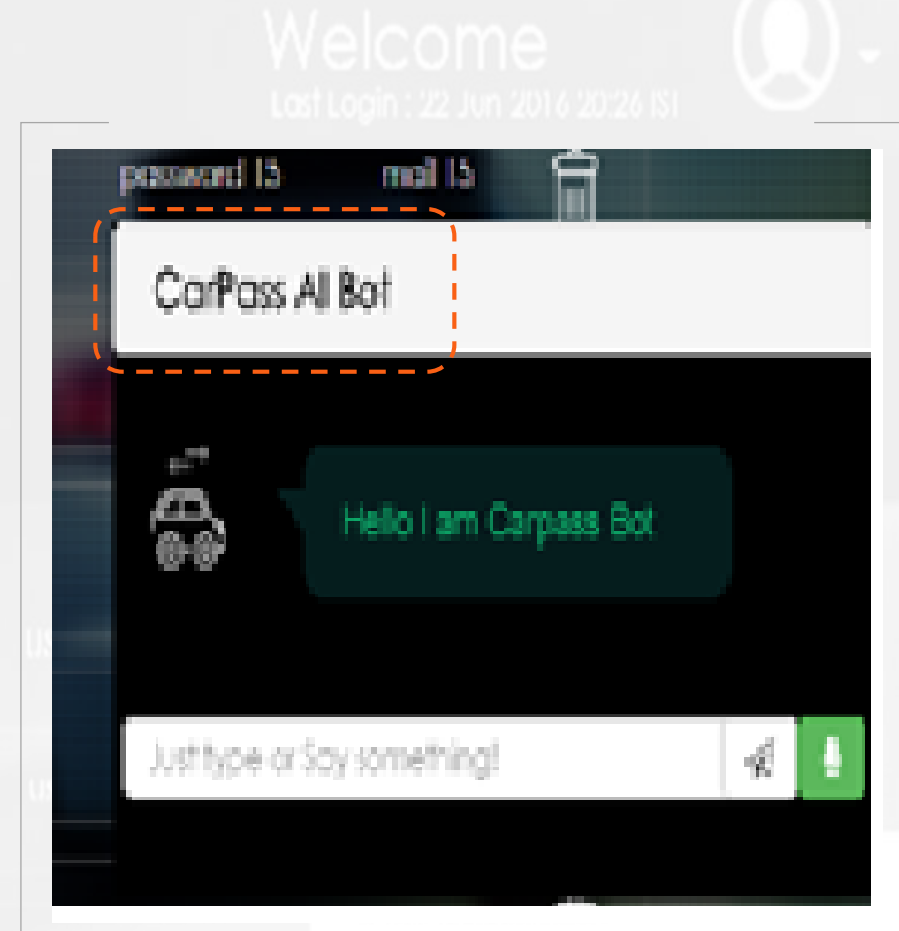
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