Touch IoT with SAP Leonardo

Internet of Things - Connected Automotive Platform (CAP)

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The Connected Automotive Platform (CAP) is an Internet of Things (IoT) platform that aims to connect the smart road infrastructure with connected vehicles to enable an ecosystem for future smart navigation and thereby enable and empower autonomous and driverless vehicles. The platform also acts as the foundation to deliver consumer apps that provides a seamless, device agnostic, role based consumer experience to various stakeholders involved with road transportation, viz. car owners, automotive manufacturers and dealers, traffic controllers, motor vehicle authorities, automotive insurance providers, sustainable transport advocates etc.
The Persona

**About**
- 30, Single, Sales Professional.
- Owns a Dodge Caliber SXT.
- Technology savvy, I have my iPhone and iPad, always.
- I drive to work regularly.
- Oh yeah, I love going on road trips quite often.
- I love changing my car once a while, it’s cool. The next is a Mini Cooper.

**Responsibilities**
- I use and operate my Dodge.
- I pay my car insurance and bills.
- I have 12 years of driving history.
- I plan my trips and routes.
- I am very calculative on my car premiums and service, I see to it that I get the best deals out there.

**Main Goals**
- Make timely decisions related to buying and using my car.
- Timely service that makes my drives comfortable; I don’t want an unexpected breakdown.
- No accidents, no insurance claims, I am better off without these.
- I don’t want to spend a bomb for motor vehicle inspection.
- Of course, security for my car.

**Needs**
- I need timely info to know the health of my Dodge.
- I wish my Dodge could be like Facebook, that she had all the notifications waiting for me. I know I am asking for too much.
- I need to optimize my spend on my car, be it insurance, fuel, services, what not.
- No surprise breakdowns, no surprise maintenance costs.

**Pain Points**
- I don’t really understand how I can predict a breakdown, they say you can sense it, but I am no automobile engineer.
- And yeah, don’t ask me to log into a desktop computer. That’s the last thing I want to hear. Perhaps I was in university the last time I used a desktop computer to check my Facebook. You know it.
The Point of View

As a Car Owner...

I need a way to understand and analyze running patterns, correlate it with the health of my vehicle, and thereby anticipate timely maintenance to have uninterrupted operations.

...so that I am in total control of my car related expenses, and my spend is optimal.
The Journey Map

**Research & Buy**
- Research cars online
- Deals & Offers
- New vs. Used
- Own vs. Lease
- Call dealer
- Visit autotrader.ca
- Talk to friends
- Test drives
- Vehicle history

**Insure & Register**
- Review & Comparison
- Online quotes
- Call insurance agents
- Appointments
- Driving history
- Vehicle registration

**Drive**
- Planning & Routing
- Navigation Services
- Traffic Information
- Parking
- Weather
- Fuel, air & service
- Safety
- Security
- Services

**Maintain**
- Oil change & car wash
- Vehicle inspections
- Re-registration
- Renewals & Service
- Breakdowns
- Damage & Accident
- Repair and Replace
- Service Bills
- Insurance claims

**Sell**
- Gather information
- Black book
- Trade or sell
- Talk to friends
- Advertise online
- Social media
- Visit dealer

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**Car search is fun.**
There are no deals out there, it’s pricey!

**Why does insurance cost me so much?**
Finally, I am good to drive!

**Driving is just cool.**
Weekend Getaway!

**That's so easy.**
Great service!

**Damn, it's broken down…**
Yet, again!

**That's costing me a bomb 😞**
Someone out there to buy?

**Okay, not too bad a deal.**
Yet, another chapter.
The Prototype

Connected Automotive Platform (CAP)

username
password
SIGN IN

Welcome Glenda!

my Dodge Caliber

- Duration: 1 hr 20 min
- Avg. Speed: 90 km/hr
- Distance: 120 km
- Efficiency: 12 km/litre

Navigation
Find My Car
Traffic Info
Climate Control
Remote Start
Car Health

Start
Connected
32°C Interior Temperature
Next Oil Change 92000
35 litres (87 Octane)
Settings
The Prototype

my Dodge Status
Spot 21, Western Parkway

Fuel Status
35 litre of Octane 87

Location
50 Innovation Drive, Bedford

Temperature
30°C Interior Temperature

Air-conditioning [on]