TOUCH IOT WITH SAP LEONARDO
PROTOTYPE CHALLENGE

CAR RENTAL APP

MONITORING RENTED CAR SAFETY
HireACar is a car rental company which rents cars for short period of time. It has two types of cars available for rent: hatchback model newModel123 and sedan model newModel456. To ensure safe driving practices, company needs to track some parameters like driving speed limit, jerk-free driving. Also in case of unfortunate events like collision, it would need to immediately help the user who has rented the car. To satisfy these needs, cars are equipped with speed sensors, jerk sensors. During the time car runs on road, all this data is collected and in case of reaching threshold values, alert message is generated, so that immediate action can be taken. Depending on speed and jerk sensing data, cases of harsh driving or drunk driving can be caught immediately and company can take immediate action like warning user through cellphone or freezing the car at nearest car park. It will avoid any future casualties on road. Customers can be rated as good, medium or harsh driving. This helps company to focus on good rated customers by offering them attractive discounts/offers. Also it will ensure safety of both users and cars.
Vivek
Owner/Manager

Safety first!

About
• 34, Married, 10 years in car renting business
• Experience in dealing with various kinds of users
• Needs to take fast decisions
• Responsible to ensure safety of customers
• Frequently travels in various cities

Responsibilities
• Responsible to ensure safety of customers
• Track cars which are out on rent, check driving patterns
• Act fast in case of accident/collision

Main Goals
• Implement best driving practices
• Help customers drive safe
• Help customers in case of accident

Needs
• To access real time data
• Get alerts if any car crosses speed limit
• Get alerts if anyone driving rash
• Check customer driving pattern and rate them accordingly

Pain Points
• Once car is rented out, it is difficult to control how customer uses it, in spite of taking all safety measures.
• Difficult to rate customers by analyzing driving pattern as there is no data available except no of days car was rented, and the condition in which it was returned
• Decide root cause of accident in order to avoid it in future.
Point of View

As a manager of car renting company responsible for safety, I need a way to track driving patterns real time and take necessary actions like alerting customers to drive within speed limit, or making car stop at nearest possible halt if I see lots of harsh driving, So that I can ensure safe driving and safety of customers and people on road.
## UX Journey

<table>
<thead>
<tr>
<th>ACTIONS</th>
<th>Vivek checks newMoel123 status</th>
<th>It shows it is rented out for 2 days</th>
<th>He analyses speed sensors graph and jerk sensor graph</th>
<th>Alert is displayed saying speed limit is crossed.</th>
<th>Vivek sends notification to customer’s cell to request to adhere speed limit</th>
<th>Customer checks and limits speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINDSET</td>
<td>Let me check what is the status for today.</td>
<td>Good</td>
<td>All seems well till now.</td>
<td>Oh! This is not safe!</td>
<td>I can immediately act now.</td>
<td>This is good!</td>
</tr>
<tr>
<td>FEELING</td>
<td>😊</td>
<td>🙁</td>
<td>🙋</td>
<td>😲</td>
<td>😌</td>
<td>😄</td>
</tr>
<tr>
<td>TOUCH POINTS</td>
<td>Mobile/desktop application</td>
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<td>Mobile</td>
<td>Mobile</td>
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</tr>
</tbody>
</table>
Prototype

Launch Page displays one page for each car. It displays information like Model and registration number of car.

When clicked on a page, details are displayed:
Sedan NewModel456

CTR 01 ST 456  Mapped  Geo-Match  Connected  On

Notifications (2)
Hash Drive Limit crossed on 5th July 17 at 10:30 PM
Due to due date is over.

6/5/2017
6/5/2017

SPEED ANALYSIS
Number Of Times Max Speed Limit Crossed Per Hour

Harsh Driving Report
Number Of Times Harsh Drive Limit Crossed Per Hour