TOUCH IOT WITH SAP LEONARDO
PROTOTYPE CHALLENGE

AUTO SHIPMENT
Danny is the manager at a manufacturing plant where his daily job is to produce and ship to his warehouses.

With flowing in demands from his warehouses he confirms how much he can ship today by seeing the on hand stock once he confirms and triggers a mail to his shipment team they pick the desired products from the inventory and load it into the truck with reference to the order number the manager has confirmed.

After the products are loaded to the truck from the inventory the geo sensors senses the products loaded and creates a **goods issue** from Danny’s plant location and the truck details can be tracked real time live and he can confirm the time it is going to reach warehouse/destination once the truck enters the geo fence of the warehouse it creates a **goods receipt** against the purchase order or stock transfer order which makes a robust process and eliminates lot of man hours.
Persona

Persona Template – filled out

Danny
The Plant Manager

“I like to get things done quickly since I am on the move all the time, dealing with a million things.”

About

- 40 Married, Over 15 years of manufacturing experience.
- Being the person who makes the demand and supply fulfillment decisions, I have to keep the balance between Demand and supply ratio and the fill rate ratio working at a comfort level.
- Very mobile, moving from building to building during the day and takes lot of man power to overlook the process of goods issued and goods received.
- I work with the planners, operators, loading staffs and truck carriers.

Responsibilities

- I am responsible for production at factory.
- I am responsible for order mapping between demand and supply.
- I spend more time in the shop floors and also do the confirmation from my office, on the computer.
- I need to know the amount of products that are shipped to various warehouses from plant lot of time goes into manual scanning.

Needs

- I need the ability to automatically account the stock from the inventory and also to create goods issuance from my plant automatically on the go while loading into the truck and automatically goods receipt at warehouse.

Main Goals

- Being the person who is in charge of the supply confirmation from the plant to all the warehouses I
- It gets messy at times while doing the shipment
- Better management of the staffs time and effective
- Very time consuming and lot of manual resources
- shipment process with help of automation between sap and IoT
- Most of times the scanning process becomes
- harder due to scanner issue etc.
- During peak season very hard to manage the volume to of shipment.
Point of View (PoV)

User + need + insight/why

Point of View

As a Plant manager my role is to satisfy the demand from across the warehouses.

I need a way to innovative and automate my supply chain process for better supply chain process so that during the manufacturing and shipment process it makes effortless to engage man power in a much better way so that automatically the inventory level and the shipment process goods movement from plant to warehouses are handled in a seamless way so that a lot of manual effort is reduced and volumes of shipment inbound and outbound are handled in a robust way.
# User Experience Journey Template – Shipping goods from Plant to its warehouses

<table>
<thead>
<tr>
<th>ACTIONS</th>
<th>Checklist of products to be shipped</th>
<th>Delivery destination of product lots</th>
<th>Load into truck for shipment</th>
<th>Automatic goods issue from plant updated in sap system</th>
<th>Start the truck from plant</th>
<th>Reach the destined warehouse</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINDSET</td>
<td>Daily activity</td>
<td>Products shipped to the warehouse should reach on time</td>
<td>Stuck now on production and shipping activities</td>
<td>Is there a way to automate this shipment GI/GR process</td>
<td>Very difficult to do scanning and loading activity</td>
<td>My organizatio n and customers should be happy</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>Goods stacked in plant inventory</td>
<td>Checklist Products shipment details to warehouse</td>
<td>Truck details to respective warehouses</td>
<td>Transit info Truck</td>
<td>Truck status real time tracking</td>
<td>Warehouse waiting for stock from plant</td>
</tr>
</tbody>
</table>
Prototype

Prototype screens for an IoT application to solve your

Launch pad

Products Page

Demands

Receiving location

Live tracking

Study link: https://standard.build.me/user-research/bf1b8b6c1cd8dfba0e1cfe44/participant/fd26850a1890ab e20e20c033

Youtubelink: https://youtu.be/IfGb8KoArOk