



open**SAP**

# **TOUCH IOT WITH SAP LEONARDO**

## **PROTOTYPE CHALLENGE**

**TEMPLATE FOR  
SUBMISSION REQUIREMENTS**

### **Template Description**

This is a template that can be used for the Prototype Challenge included as part of the openSAP course "Touch IoT with SAP Leonardo."



# Story

Make a case and tell your story.

## Story

This is a real life scenario that we are experiencing in our locality daily. My friend ,owns a coffee shop. The coffee shop draws water from the locality reservoir .It uses an electric pump to draw water at the overhead tank (at the terrace) of the shop. My friend pays for water drawn from the reservoir on an annual basis. The reservoir water gets filled daily once in the morning and evening by water from the city water supply reservoir (Garden Reach Water Supply Corp). He wishes to have an app that monitors the water usage in his shop to reduce water wastage , hence reducing the frequency of buying water from the water trucks when no water is in the overhead tank and when the reservoir too runs out of water, from the city corporation.

Solution : Fully automatic water level controllers are available in the market .One such controller will be fitted as a water pump in coffee shop. A sensor to convert the sensor data to meaningful data(working as an emitter) has to be fitted . Another sensor will be fitted at reservoir to just check the water level and send the data . All these data will be sent via wi-fi router of locality that **will act as the gateway**. Converting all this data to meaningful information and stored in HANA database through HANA cloud platform IOT enablement process . Finally, this will be represented in the UI with graphs (the prototype of which is present in the BUILD) and shown as an SAPUI5 application. This application will be monitored as a dashboard live on computer desktop in the café whenever the user wants to monitor the water usage.



# Persona

Explain the needs, goals, and pain points addressed

## Abhijeet

### Business Owner

#### About

- 36, married, owner of a coffee shop for last 8 years.
- Monitors usage of food, beverages and raw materials on a weekly basis.
- Very mobile, as he often travels to South India for his business needs.

#### Main Goals

- To monitor usage of water
- To monitor the water usage in his pump
- To better manage usage of water.
- To reduce cost of buying of water from the water supply corporation.
- To reduce and eliminate repair cost of pump

#### Needs

- He needs to check water available in the local reservoir
- He needs to check water available in the water pump.
- He needs to monitor usage of water in the shop on a daily and weekly basis.

#### Responsibilities

- Buys raw materials for coffee shop.
- Monitors shop infrastructure, usage of food, beverages and raw materials on a weekly basis.

#### Pain Points

- Excessive withdrawal of water from reservoir often leading to overflow of overhead tank in the shop
- Unknown of water usage details in a week.

#### Pain Points(Contd.)

- Breakage of water pump due to air that gets filled inside the water pipe. This happens when there is not sufficient water in the reservoir.





# Point of View (PoV)

User + need + insight/why

## Point of View

As a **business owner**

I need a way to monitor the usage of water used in my coffee shop

so that I can mitigate wastage of water in the shop and reduce cost of buying water from external water trucks and reduce cost of paying my bills annually to water supply corporation.



# UX Journey

Describe Actions, Mindset, Feelings and Touch point

<b>ACTIONS</b>	Abhijeet checks in coffee shop every day in the evening, if not on a business trip.	Talks to the store manager over a cup of coffee	Checks registers on almost all things, except how many times electric pump was put on for drawing water which he gets from word of mouth from store manager	Checks all overhead costs occurred.
<b>MINDSET</b>	I am going to check all orders and raw materials used, including how many times on an avg. the pump is used daily, by getting updates from the records kept by the shop manager.	Now he is going to tell me about all issues and if any wastage occurred.	Oh no! Again so many times pump was turned on and repairing updates I have to hear for the electric pump and overhead tank, amongst other things.	Finally it is over, at least I got all the updates.
<b>FEELING</b>	😊	Alert and attentive.		Satisfied partially.
	I wish if I could use an app to monitor everything, including the usage of water.			
	😞		Worried	
<b>TOUCH POINTS</b>	<ul style="list-style-type: none"> <li>Coffee shop crowd</li> </ul>	<ul style="list-style-type: none"> <li>Store manager.</li> <li>Sales in the shop.</li> <li>Financial app in the computer that tracks all debits and credits taking place in the shop in the past two days.</li> </ul>	<ul style="list-style-type: none"> <li>Record books for raw materials and crockeries.</li> <li>Pen and paper to jot down required items.</li> <li>Electric pump, overhead tank</li> </ul>	Updates related to infrastructural needs.



# Prototype

Prototype screens for an IoT application to solve your PoV

SAP BUILD Link (accessible by all)

[https://standard.build.me/prototype-editors/api/public/v1/snapshots/4d98201af7cb88570e1d1636/artifacts/latest/index.html#/launch\\_page](https://standard.build.me/prototype-editors/api/public/v1/snapshots/4d98201af7cb88570e1d1636/artifacts/latest/index.html#/launch_page)