



open**SAP**

# IOT SLM -SURFACE LEVEL MONITOR PROTOTYPE CHALLENGE

PLEASE VISIT <https://youtu.be/VBrge28NVoE>  
TO KNOW THE HISTORY.

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## Persona



# ELIAS

## SLM Analyst

“I like to help people democratizing the use of technology”

### About

- 26, single, iOS & Android developer, 1 month of SLM Analyst.
- Be the person who monitors the possible risks that could arise and give timely notice to the search and rescue teams.
- I like to innovate and propose new functionalities to the SLM Development Team.

### Responsibilities

- I am responsible for analyzing the large volumes of information coming from SLM monitors.
- Generate new software and hardware requirements for the development team to improve SLM functionality.
- Decide the level of emergency that is being presented

### Needs

- Display on the same screen the location of the emergency and how many people are in danger.
- Have knowledge of the infrastructure of services (natural gas, water, electricity) that are close to the emergency zone.
- Have the capacity to inform both the emergency teams and the population of the risk situation that is being presented.
- Take control of sensor maintenance, lifetime remaining, suppliers, prices.

### Main Goals

- Reduce by 95% the dangers associated with the appearance of sinkholes.
- Have at least one emergency unit within 5 minutes of the incident
- Reduce data usage costs of 3g and 4g networks used by sensors.

### Pain Points

- Costs for data transmission through networks 3g / 4g.
- Large volumes of information generated by sensors need the use of leading technology to be managed.
- Need to send alerts to governments and private companies with rescue teams.
- Time required to replace sensors that are out of service.

## Point of View

### Point of View

**As a SLM Analyst I need a way to**  
know how many people lives near  
the zone of emergency  
**so that** can decide the total number  
of emergency teams to be deployed  
in the area.

### Point of View

**As a SLM Analyst I need a way to**  
have knowledge of the services  
infraestructure (natural gas, water,  
electricity)  
**so that** can minimize the external  
risks that can be triggered by this  
emergency

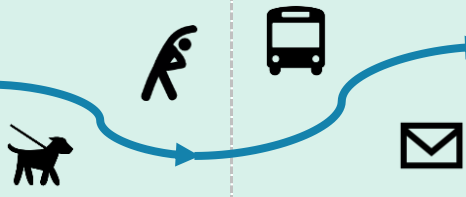


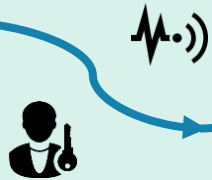
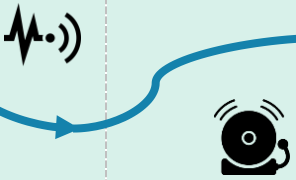



### Point of View

**As a SLM Analyst I need a way to**  
warn the rescue teams and the  
population about the incident  
in progress  
**so that** we can give a efficient  
and fast support.

### Point of View

**As a SLM Analyst I need a way to**  
keep monitoring equipment  
running 24/7 throughout the year  
**so that** people can be certain that  
they will be alerted to any  
eventuality.

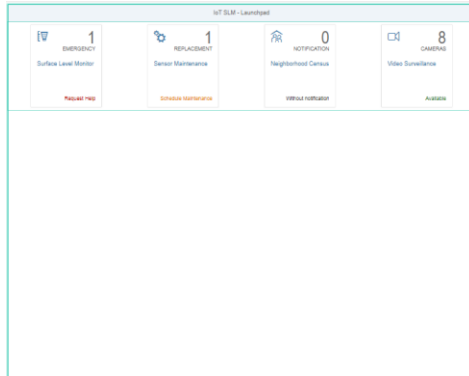
# User Experience Journey

ACTIONS	MINDSET	FEELING	TOUCH POINTS
<ul style="list-style-type: none"> <li>▶ Walking the dog</li> <li>▶ Go to the gym</li> </ul> 	<ul style="list-style-type: none"> <li>▶ "Good morning my good friend Chato!"</li> <li>▶ "I'll invite Elena to go dancing tonight ☺"</li> </ul>		<ul style="list-style-type: none"> <li>▶ "Chato" the dog</li> <li>▶ Elena "the beautiful gym girl"</li> </ul>
<ul style="list-style-type: none"> <li>▶ Go to the work</li> <li>▶ Read email</li> </ul> 	<ul style="list-style-type: none"> <li>▶ "Here comes the bus"</li> <li>▶ "Now I go on time to work"</li> <li>▶ "I have a lot of spam in my mail"</li> </ul>		<ul style="list-style-type: none"> <li>▶ Bus Driver</li> <li>▶ Laptop</li> <li>▶ Email</li> </ul>
<ul style="list-style-type: none"> <li>▶ Logon to SLM.</li> <li>▶ Review SLM status</li> </ul> 	<ul style="list-style-type: none"> <li>▶ "Working time ☹"</li> <li>▶ "Let's check how my sensors are"</li> </ul>		<ul style="list-style-type: none"> <li>▶ Laptop</li> <li>▶ SLM Page Admin</li> </ul>
<ul style="list-style-type: none"> <li>▶ The alarm is active</li> <li>▶ Send emergency alerts</li> </ul> 	<ul style="list-style-type: none"> <li>▶ "OMG! An alarm has been activated!"</li> <li>▶ "I hope it is far from my family"</li> <li>▶ "I need to get help from the rescue teams."</li> </ul>		<ul style="list-style-type: none"> <li>▶ SLM Sensors</li> <li>▶ SMS Alerts</li> <li>▶ Emergency teams</li> <li>▶ Chief</li> <li>▶ Teammates</li> </ul>
<ul style="list-style-type: none"> <li>▶ Check security cameras</li> <li>▶ Emergency teams arrives at the site</li> </ul> 	<ul style="list-style-type: none"> <li>▶ "From the camera people look calm ☺"</li> <li>▶ "Finally, the experts arrived!"</li> </ul>		<ul style="list-style-type: none"> <li>▶ Cameras</li> <li>▶ Emergency teams</li> </ul>
<ul style="list-style-type: none"> <li>▶ No victims</li> <li>▶ Close red code</li> <li>▶ Store lessons learned</li> </ul> 	<ul style="list-style-type: none"> <li>▶ "It has been a heavy day"</li> <li>▶ "I like my job"</li> <li>▶ "I need to send alerts faster in the next event"</li> </ul>		<ul style="list-style-type: none"> <li>▶ Laptop</li> <li>▶ Emergency Teams</li> <li>▶ Chief</li> </ul>
<ul style="list-style-type: none"> <li>▶ Send report of the day to the team.</li> <li>▶ Go home</li> </ul> 	<ul style="list-style-type: none"> <li>▶ "I'll send the summary of the day to the team"</li> <li>▶ "I'll take a bath and I'll take Elena to dance"</li> <li>▶ "Goodnight "</li> </ul>		<ul style="list-style-type: none"> <li>▶ Chief</li> <li>▶ Teammates</li> <li>▶ Bus Driver</li> <li>▶ "Chato" the dog</li> </ul>

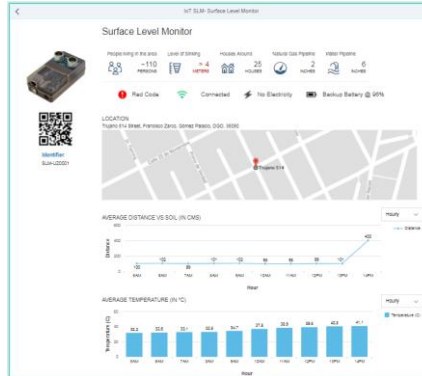
# Prototype

Visit the next link for view the prototype on BUILD: <https://goo.gl/RUpZad>

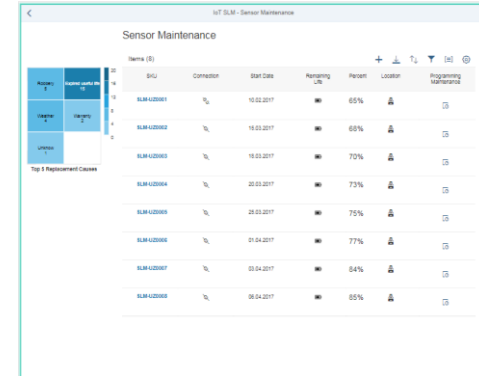
Launchpad



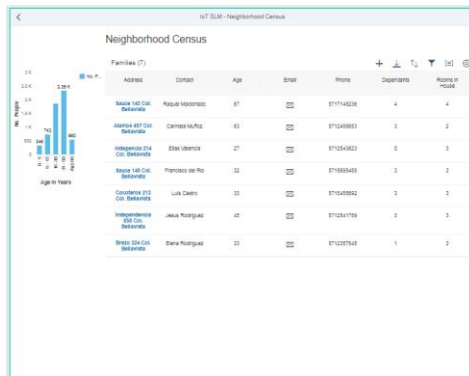
Surface Level Monitor



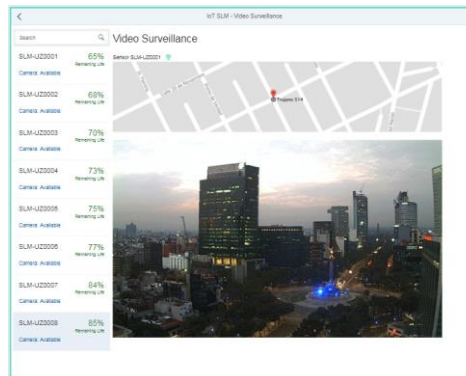
Sensor Maintenance



Neighborhood Census



Video Surveillance



Help Request

