openSAP

TOUCH IOT WITH SAP LEONARDO PROTOTYPE CHALLENGE

SMART PLANT ASSISTANT
Every year millions of house plants die because of too much or too little water, unsuitable temperature, overly dry air, bad lighting or simple lack of love. Growing plants is a pleasant activity and watching them grow, cheers me up. And their blossoms are to me a reward for my care. However, my job makes such activities hard to follow.

The inability to take care of my flowers due to other important occupations can have a long-lasting effect on their growth. Watering the plants excessively, mold and marsh will start to appear. On the other hand, if the soil remains to dry it will damage or suppress the growth of the plants.

It would be great to have a system which could help me with the watering cycle, even if I am away for a long time. A smart system which could water my plants when necessary and controls that the plants receive just as much water as they need. I would be able to monitor my plants even when I am away and track their health in real-time. I would be able to know anytime what my plants need, what is wrong with them and what can be done about it.
Persona

**Julia**

Business Consultant

“Gardening is my second passion, but my job requires a lot of traveling and keeping my plants alive is a real challenge.”

**About**
- 27, single
- As a Business Consultant, I get to travel a lot and this makes it difficult to pursue my passion for gardening, as plants need to be watered regularly
- My working-hours vary and there are days when I reach home very late. Having the possibility to “keep an eye” on my plants while I am away, would be very helpful
- Understanding the best conditions for a plant is not always easy

**Responsibilities**
- Giving my plants the right amount of water
- Watering my plants only when necessary
- Ensuring the right temperature for my plants
- Ensuring that my plants have enough sunlight

**Needs**
- I need to water the plants whenever necessary, even if I am away
- I need to ensure that I don’t give my plants more water than necessary
- I need to ensure that my greenhouse has the right temperature for my plants
- I need to make sure that my plants get enough light

**Main Goals**
- Being able to drive my passion, without having to sacrifice my job or require help from others
- Having the possibility to monitor different factors which influence the growth of my plants, while being away

**Pain Points**
- Unable to water my plants while being away
- Difficulties on deciding the right amount of water
- Need to decide the right temperature for my plants
- Need to set up the correct humidity for my plants
- Need to determine the right intensity for my plants
Point of View

As a passionate gardener

I need a way to water my plants on time, provide them the right amount of water, provide the suitable temperature, ensure they have enough sunlighting

so that they stay healthy and happy.
## UX Journey

<table>
<thead>
<tr>
<th>ACTIONS</th>
<th>Going to the greenhouse to check on the plants</th>
<th>Enter the greenhouse</th>
<th>Check the plants Check the soil moisture</th>
<th>Fill the watering can with water Start watering the plants</th>
<th>Check room temperature Check sunlight</th>
<th>Watching the plants in the greenhouse</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINDSET</td>
<td>“I wonder if my plants are still alive?!”</td>
<td>“Oh, my beautiful flowers, I’ve missed you so much!”</td>
<td>“Oh no, my Yucca’s leaves started turning yellow” “And my Orchid lost almost all its flowers 😞”</td>
<td>“Ah, I must pay attention not to give my Yucca too much water, that could also have other negative effect”</td>
<td>“Oh, it’s 28 Celsius, I need to think about installing a cooling system”</td>
<td>“Oh, they are simply beautiful, I adore taking care of them!”</td>
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<tr>
<td>FEELING</td>
<td>😊</td>
<td></td>
<td></td>
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<tr>
<td>TOUCH POINTS</td>
<td>-</td>
<td>Greenhouse door.</td>
<td>Yucca Orchid Soil</td>
<td>Watering can Water tap Plants</td>
<td>Thermometer</td>
<td>Plants</td>
</tr>
</tbody>
</table>
Prototype

Yucca

Current Date: July 19, 2017
Warning: The room temperature is too high. I need water!

Current Temperature: 27°C
Moisture: 30%
Light intensity: 60%

Average Daily Moisture (%)

Average Hourly Temperature (°Celsius)

Average Hourly Sunlight