

1. Story & Outline

Integrated geolocation & meterreading app.

Why this app? What will it accomplish?

This app will help a the person that needs to read out utility meters (such as gas or electricity) in unpopulated areas. For example, meters at an unmanned water pumping station in a polder, or unmanned science or meteorological equipment.

Those meters are sometimes at hard to find places.

In the backend system the GPS/location of these meters are accompanied with pictures of the exact location of the meters. These pictures will help the gasman that has to read out the meter with locating the meter in the field.

The app will have several tabs, one with a geomap (eg. Google Maps) locating the meter, one tab with pictures and explanation where to find the meter, and one tab where the reading can be entered in the system.

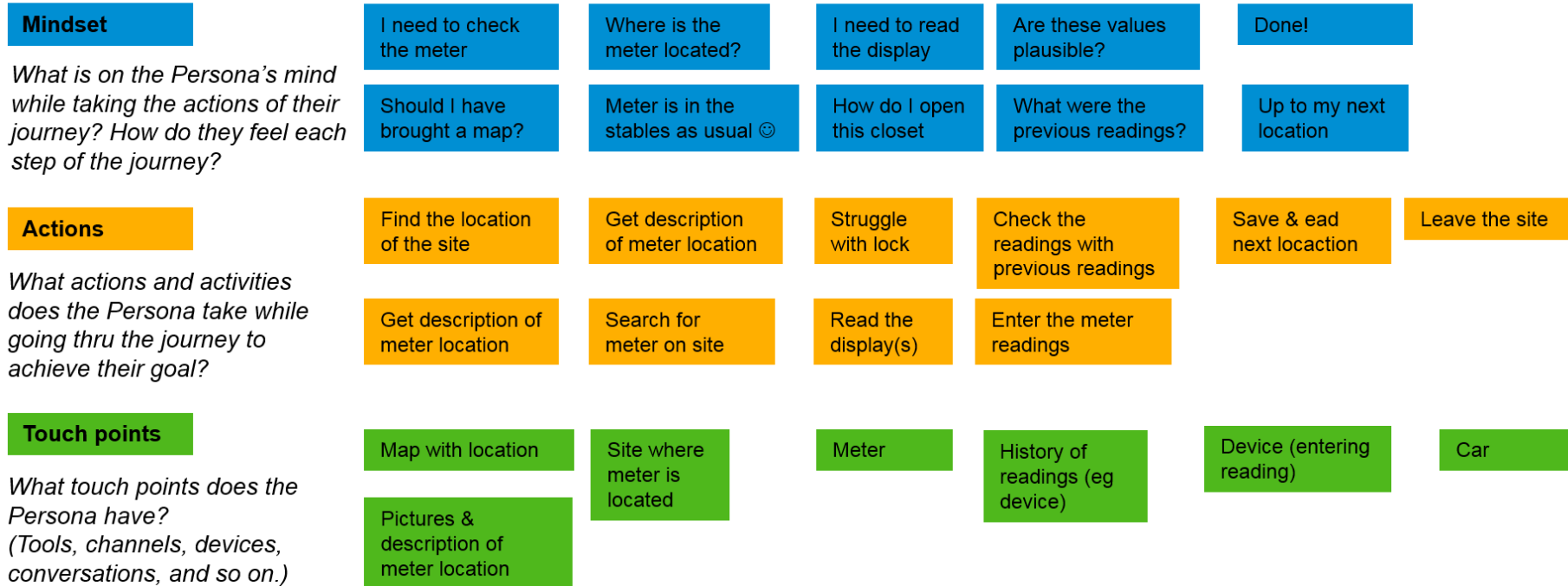
What is the context and need for this app?

This app will help the gasman in finding the meter in the field, without having to print out pictures and mas before he goes to work. The app is explicitly targeted at reading out unmanned meters in unpopulated areas.

3. User Experience Journey

Current User Experience Journey

Duration of the Journey: 30 min



4. Mock Up

a. Tab 1; Detail of installation with meters

Adressen(42) Request

Search

Street1
Pcode City
1 telwerk Today

Street 2
Pcode City
3 telwerken 1 day ago

Street 3
Pcode City
2 telwerken 6 days ago

Street4
Pcode City
1 telwerk Last week

Street5
Pcode City
2telwerken Last week

Name1 Street 2
Pcode City
1 day ago

Detail Foto GPS

Equipment: Description dolor sit
Equipmenttype: Eget dolor Aenean massa
Apparaat: Cum sociis natoque
Apparaat type: Penatibus et magnis dis parturient

Telwerken (3)

Description	Laatste opname	Laatste meterstand	Nieuwe meterstand
Gas 1	12-04-2014	123.555	_____
Elec Dag	12-04-2014	12554	_____
Elec Nacht	12-04-2014	23154	_____

Save

b. Tab 2; Detail of installation with picture of location

Adressen(42) Request

Search

Street1
Pcode City
1 Item Today

Street 2
Pcode City
3 Items 1 day ago


Street 3
Pcode City
10 Items 6 days ago

Street4
Pcode City
100 Items Last week

Street5
Pcode City
84 Items Last week

Name1 Street 2
Pcode City
1 day ago

Detail Foto GPS



Save

c. Tab 3; Detail of installation with GPS location display on map

Adressen(42) Request

Search

Street1
Pcode City
1 Item Today

Street 2
Pcode City
3 Items 1 day ago

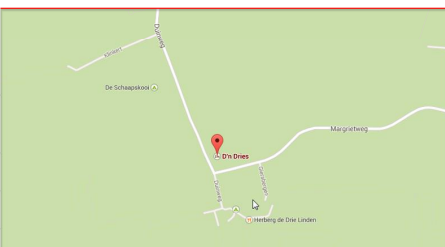
Street 3
Pcode City
10 Items 6 days ago

Street4
Pcode City
100 Items Last week

Street5
Pcode City
84 Items Last week

Name1 Street 2
Pcode City
1 day ago

Detail Foto GPS



Save

5. App Prototype, based on SAP Fiori Master-Detail template

Design components used:

- Tab~~s~~ (one with former meter-reads, one with location photo)
- Input fields (with date picker)
- Table (on tab with former meterreads)
- OData-model and -service created, including mockdata.

Screendump with tab one, former meter reads

The screenshot displays a Master-Detail application. The left pane (Master) lists meter installations, and the right pane (Detail) shows details for the selected 'Domtoren Utrecht' meter.

Meter Installation List (Left Pane):

Meter Installation
Domtoren Utrecht Domplein 9 3512 JC Utrecht
Westerkerk Amsterdam Prinsengracht 281 1016 GW Amsterdam
Sint Jans Kathedraal, 's-Hertogenbosch Torenstraat 16 5211 KK Den Bosch
St. Laurenskerk, Alkmaar Koorstraat 2 1811 GP Alkmaar
Church of Our Lady before Týn, Praha Staroměstské náměstí, 1100 00 Praha 1

Details View (Right Pane):


Domtoren Utrecht
Installation Date: 20-3-2007
Domplein 9
3512 JC Utrecht

Please enter the current meter value

Date of meter reading:

Counter 1:




Counter 2:

3 Former reads  Photo's

March 25, 2015	1125
February 18, 2015 Meter reading	783
January 12, 2015 Meter reading	210

Save

Screendump with tab two, picture of installation site.

Meter Installation	Details
<input type="text"/> 🔍 ↻	
Domtoren Utrecht Domplein 9 3512 JC Utrecht	Domtoren Utrecht Installation Date: 20-3-2007 Domplein 9 3512 JC Utrecht
Westerkerk Amsterdam Prinsengracht 281 1016 GW Amsterdam	Please enter the current meter value
Sint Jans Kathedraal, 's-Hertogenbosch Torenstraat 16 5211 KK Den Bosch	<input type="text" value="MMM d, y"/>  Date of meter reading
St. Laurenskerk, Alkmaar Koorstraat 2 1811 GP Alkmaar	<input type="text" value="00000000"/> Counter 1
Church of Our Lady before Týn, Praha Staroměstské náměstí, 1100 00 Praha 1	<input type="text" value="00000000"/> Counter 2
	3 Former reads  Photo's
	
	<p style="text-align: right;">Save</p>

Screeendump of the SAP Web IDE

The screenshot displays the SAP Web IDE interface. On the left, a file explorer shows a project named 'MeterRead04' with various files and folders including 'css', 'i18n', 'images', 'model', 'util', and 'view'. The 'Component.js' file is selected. On the right, the 'Detail.view.xml' file is open in an editor, showing XML code for an MVC view. The code includes namespace declarations, a page configuration, and an object header with several attributes and custom data elements. The XML code is as follows:

```
1 <mvc:View
2   xmlns:mvc="sap.ui.core.mvc"
3   xmlns:core="sap.ui.core"
4   xmlns:l="sap.ui.layout"
5   xmlns:f="sap.ui.layout.form"
6   xmlns="sap.m" controllerName="MeterRead02.view.Detail">
7 <Page showNavButton="{device&gt;/isPhone}" navButtonPress="onNavBack" class="sapUiFioriObjectPage" title="{i18n&gt;detailTitle}">
8   <content>
9     <ObjectHeader title="{InfoLocation}" number="" numberUnit="">
10      <customData>
11        <core:CustomData key="sapDtResourcePath" value="MeterInstallations"/>
12      </customData>
13      <!--<statuses id="statuses">-->
14      <!-- <ObjectStatus id="oStatusId" state="{ path: 'CustomerId', formatter: 'MeterRead02.util.Formatter.convertStatusState' }" text="{CustomerId}" -->
15      <!-- <customData-->
16      <!-- <core:CustomData key="sapDtResourcePath" value="MeterInstallations"/>-->
17      <!-- </customData-->
18      <!-- </ObjectStatus-->
19      <!--</statuses-->
20      <ObjectAttribute text="Installation Date: {path: 'InstallationDate', formatter: 'MeterRead02.util.Formatter.convertDate'}">
21      <customData>
22        <core:CustomData key="sapDtResourcePath" value="MeterInstallations"/>
23      </customData>
24      </ObjectAttribute>
25      <ObjectAttribute text="{Street} {Houseno}">
26      <customData>
27        <core:CustomData key="sapDtResourcePath" value="MeterInstallations"/>
28      </customData>
29      </ObjectAttribute>
30      <ObjectAttribute text="{PostCd} {City}">
31      <customData>
32        <core:CustomData key="sapDtResourcePath" value="MeterInstallations"/>
33      </customData>
34      </ObjectAttribute>
35    </ObjectHeader>
36    <l:VerticalLayout width="20%">
37      <Text xmlns="sap.m"
38        id="request"
39        text="Please enter the current meter value"
40        textDirection="Inherit"
41        visible="true"
42        wrapping="false"
43        textAlign="Center"
44        width="60%"
45      >
46    </Text>
47  </content>
48 </Page>
```