

SAP Fiori UX Design and Build Challenge

1. Application

Update information on equipment maintenance and closing maintenance orders in SAP.

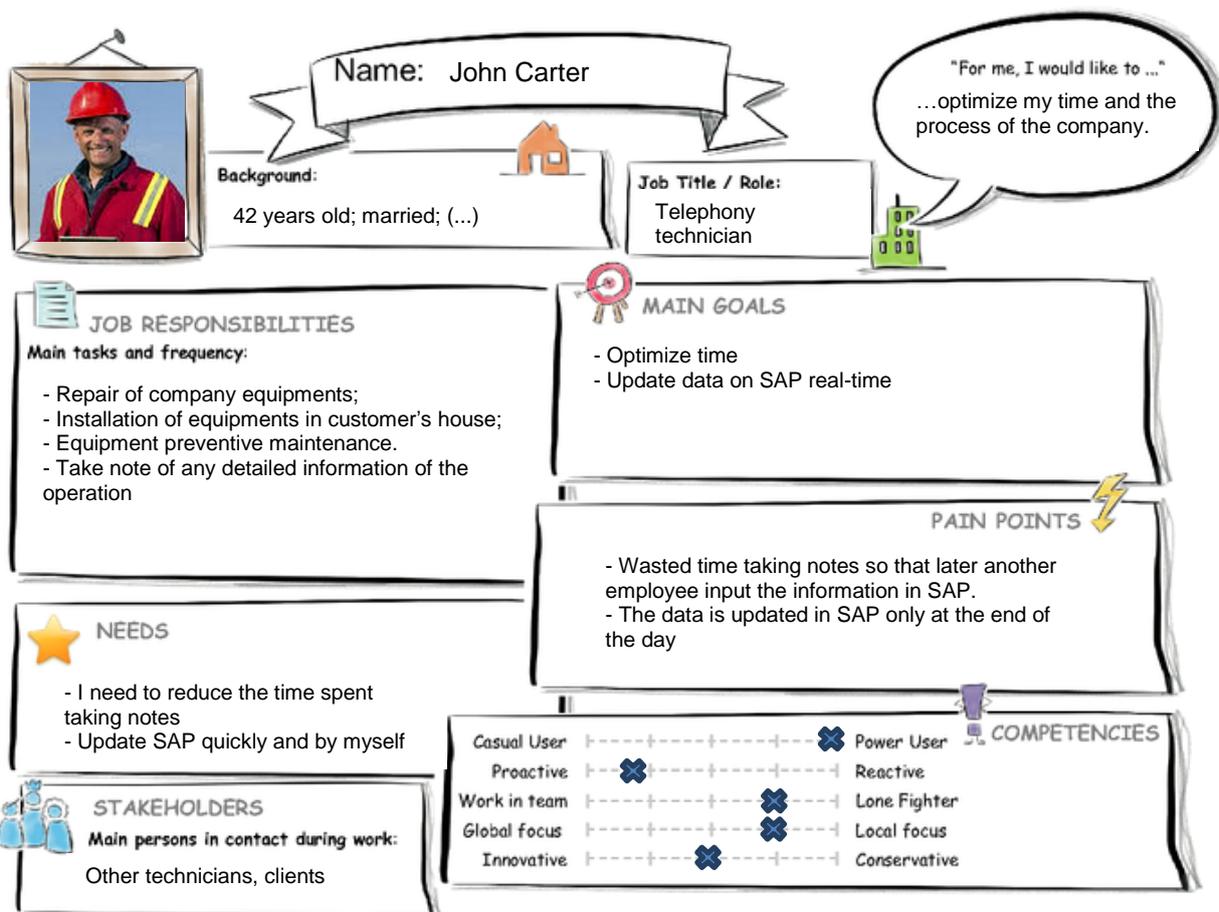
2. Story

In many companies there are field technicians performing preventive maintenance or repairing some equipment. For this process is linked to SAP you must create a maintenance order (IW31) and when the technical finish the job, it should be placed in SAP the final result and the time spent at work, confirming (IW41) and ending the order (IW32). As usually field technicians don't have access to SAP at the time of maintenance, with this application they can easily update the order and close it, including the possibility to attach photos of the process to prove that the service was done properly. When you end the order the data is updated directly in SAP system.

This application is intended for any type of industries, since they have field technicians providing maintenance on company or its customer's equipment.

Example: Telecom companies.

3. Persona



Background:

42 years old; married; 2 children, work with maintenance of telephony equipments for 18 years, little knowledge of SAP process.

4. User Experience Journey

User Experience Journey – Repair of equipment in customer’s house

Current User Experience Journey

Duration of the Journey: 1 hour



5. Mock Up

User Name ▾

←
Maintenance Orders

Maintenance Order	Short Description	Planned Start Date	Order Status
90000201	Short Description 1	May 06, 2015	Opened >
90000213	Short Description 1	May 06, 2015	Opened >
90000183	Short Description 1	May 05, 2015	Opened >
90000623	Short Description 1	May 05, 2015	Opened >
90000871	Short Description 1	May 05, 2015	Opened >
90007211	Short Description 1	May 04, 2015	Opened >
90002121	Short Description 1	May 03, 2015	Opened >
90000231	Short Description 1	May 03, 2015	Repairing >
90000231	Short Description 1	May 03, 2015	Repairing >
90381122	Short Description 1	May 02, 2015	Opened >
92192911	Short Description 1	May 02, 2015	Opened >
90000371	Short Description 1	May 01, 2015	Closed >
90000812	Short Description 1	May 01, 2015	Closed >
90007211	Short Description 1	May 01, 2015	Closed >



Order 90000201

Short Description: Description here
 Functional Location: SPO 02938-049 1010
 Equipment: NS-028274873

Opened



Dates



Operations



Attachments

Planned Start Date:

May 06, 2015

Planned End Date:

May 07, 2015

Real Start Date:

Real End Date:



Order 90000201

Short Description: Description here
 Functional Location: SPO 02938-049 1010
 Equipment: NS-028274873

Opened



Dates

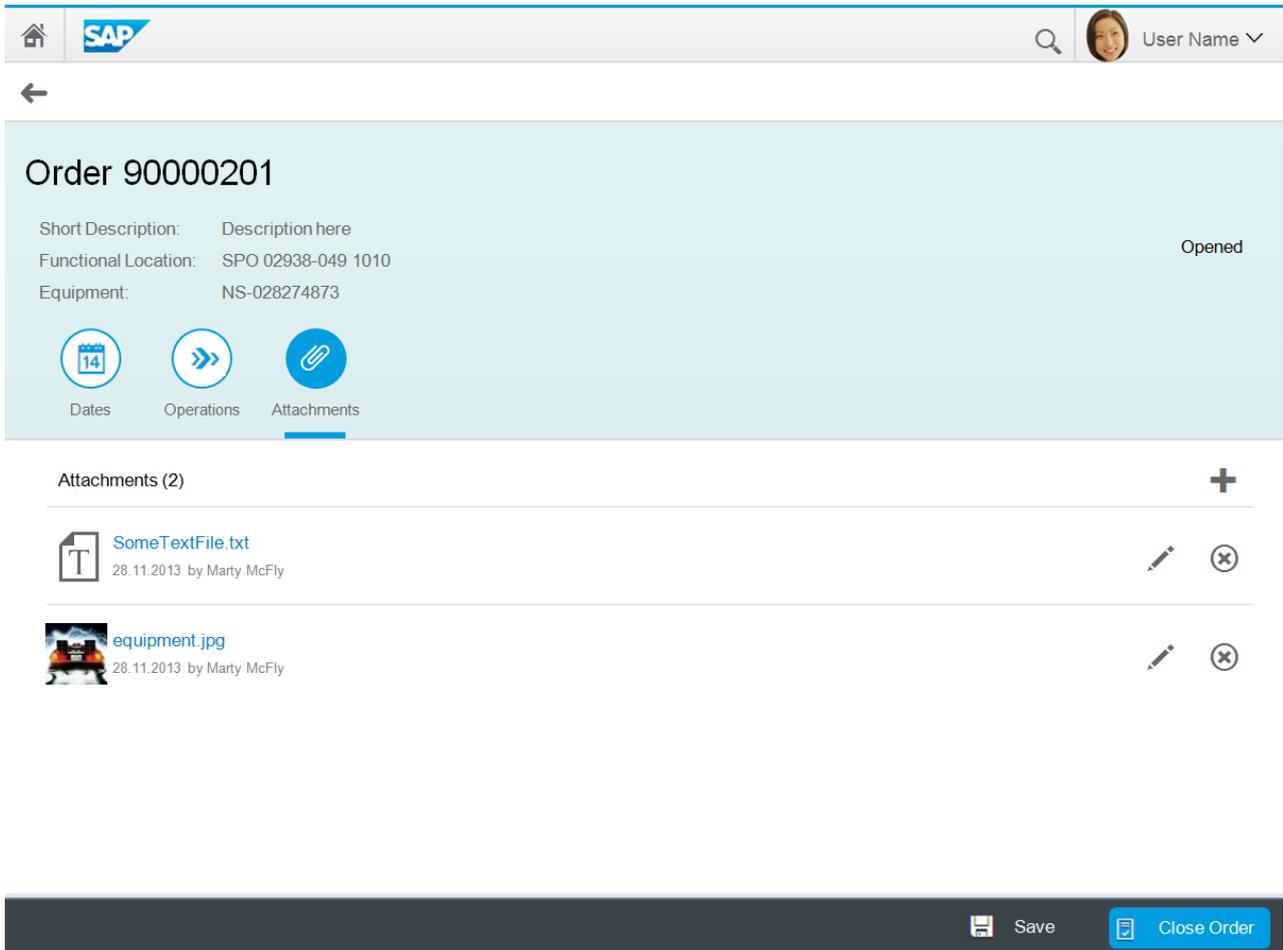


Operations



Attachments

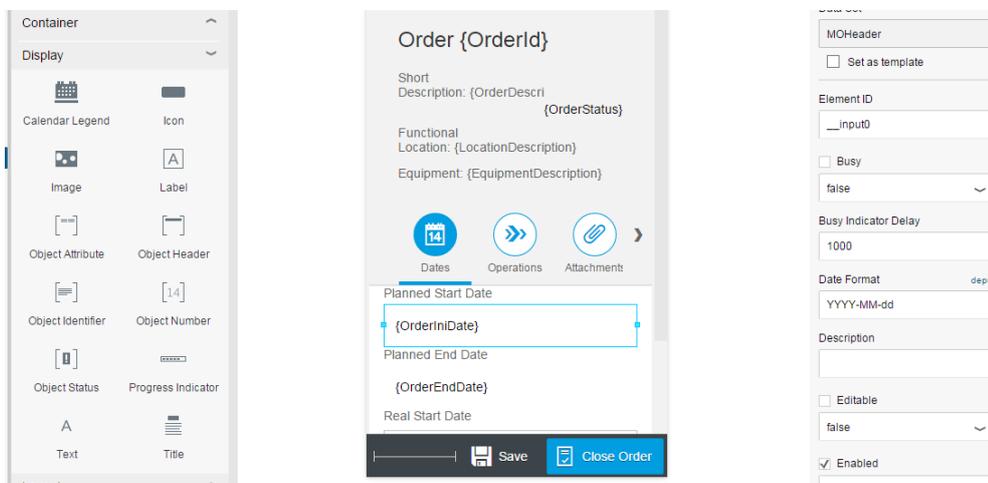
Operation	Description	Duration	Unit
0010	Description 1	<input type="text" value="1"/>	H
0020	Description 2	<input type="text" value="5"/>	H



6. App Prototype

I used as a base the template “SAP Fiori Full Screen Application”, and made adaptations in texts and controls.

With the Layout Editor, I’ve created an Icon Tab Bar with three tabs on Details view. In the first tab I’ve created labels and fields:



In the second tab, I've used the existing Navigation Table in the template and put it in Operations tab using the Code Editor, changing/adding the fields and values (binding):

```

Details.view.xml | Details.controller.js | Details.view.xml
53 | <content>
54 | <!--Navigation Table -->
55 | <Table id="navigationTable" class="navTableControlLayout" growing="true" growingScrollToLoad="true">
56 |   <columns id="navigationTable_columns">
57 |     <Column id="navigationTable_columns_co11" width="33%" minScreenWidth="Tablet" demandPopin="true" hAlign="Left" vAlign
58 |       <header id="navigationTable_columns_co11_header">
59 |         <Label id="navigationTable_columns_co11_header_label" text="Operation"/>
60 |       </header>
61 |     </Column>
62 |     <Column id="navigationTable_columns_co12" width="33%" minScreenWidth="Tablet" demandPopin="true" hAlign="Left" vAlign
63 |       <header id="navigationTable_columns_co12_header">
64 |         <Label id="navigationTable_columns_co12_header_label" text="Description"/>
65 |       </header>
66 |     </Column>
67 |     <Column id="navigationTable_columns_co15" width="33%" minScreenWidth="Tablet" demandPopin="true" hAlign="Left" vAlign
68 |       <header id="navigationTable_columns_co15_header">
69 |         <Label id="navigationTable_columns_co15_header_label" text="Duration"/>
70 |       </header>
71 |     </Column>
72 |     <Column id="navigationTable_columns_co16" width="33%" minScreenWidth="Tablet" demandPopin="true" hAlign="Left" vAlign
73 |       <header id="navigationTable_columns_co16_header">
74 |         <Label id="navigationTable_columns_co16_header_label" text="Unit"/>
75 |       </header>
76 |     </Column>
77 |   </columns>
78 |   <ColumnListItem id="navigationListItem">
79 |     <cells id="navigationListItem_cells">
80 |       <Text id="navigationListItem_cells_cell_1" text="{Operation}"/>
81 |       <Text id="navigationListItem_cells_cell_2" text="{OperationDescription}"/>
82 |       <Input id="navigationListItem_cells_cell_5" value="{Duration}" width="100px"/>
83 |       <Text id="navigationListItem_cells_cell_6" text="{UoM}"/>
84 |     </cells>
85 |   </ColumnListItem>
86 | </Table>

```

The third tab will contain a File Uploader component (under implementation). Using Code Editor, I've implemented two buttons at Details View (Save and Close Order) and added onSave and onClose functions on Details.controller.js:

```

<footer>
  <Toolbar>
    <ToolbarSpacer/>
    <Button type="Default" text="Save" press="onSave" icon="sap-icon://save"/>
    <Button type="Emphasized" text="Close Order" press="onClose" icon="sap-icon://approvals"/>
  </Toolbar>
</footer>

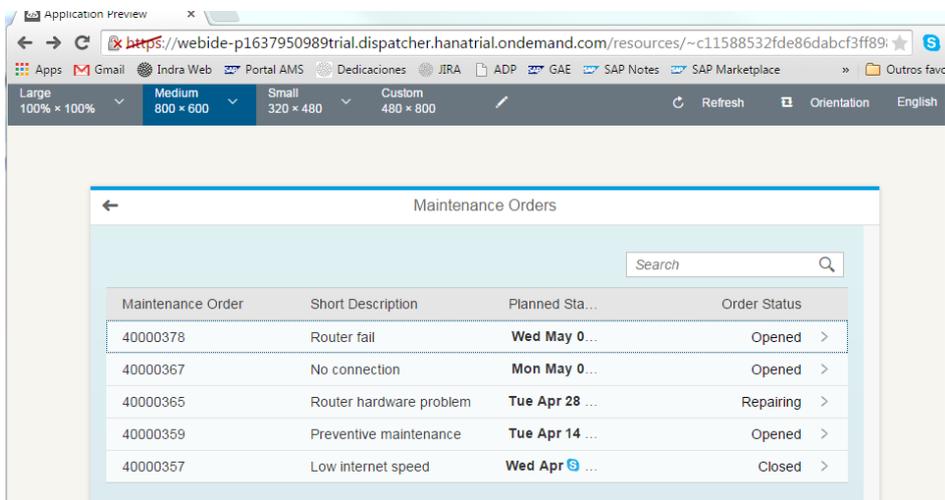
```

```

31 |   onClose: function ( ) {
32 |     sap.m.MessageToast.show("Close Order Button Pressed");
33 |   },
34 |
35 |   onSave: function ( ) {
36 |     sap.m.MessageToast.show("Save Button Pressed");
37 |   },
38 |

```

App running with mock data:



Application Preview x

https://webide-p1637950989trial.dispatcher.hanatrial.ondemand.com/resources/~c11588532fde86dabcf3ff89:*

Apps Gmail Indra Web Portal AMS Dedicaciones JIRA ADP GAE SAP Notes SAP Marketplace

Large 100% x 100% Medium 800 x 600 Small 320 x 480 Custom 480 x 800 Refresh Orientation

Order 40000378

Short Description: Router fail Opened

Functional Location: SPO 07585-000 2344

Equipment: Router NSFK029844

 Dates
  Operations
  Attachments

Planned Start Date

Wed May 06 2015 00:00:00 GMT-0300 (Hora oficial do Brasil)

Planned End Date

Wed May 06 2015 00:00:00 GMT-0300 (Hora oficial do Brasil)

Real Start Date

Wed May 06 2015 00:00:00 GMT-0300 (Hora oficial do Brasil)

Real End Date

Wed May 06 2015 00:00:00 GMT-0300 (Hora oficial do Brasil)

Save Close Order

Application Preview x

https://webide-p1637950989trial.dispatcher.hanatrial.ondemand.com/resources/~c11588532fde86dabcf3ff89:*

Apps Gmail Indra Web Portal AMS Dedicaciones JIRA ADP GAE SAP Notes SAP Marketplace

Large 100% x 100% Medium 800 x 600 Small 320 x 480 Custom 480 x 800 Refresh Orientation End

Order 40000378

Short Description: Router fail Opened

Functional Location: SPO 07585-000 2344

Equipment: Router NSFK029844

 Dates
  Operations
  Attachments

Operation	Description	Duration	Unit
0010	Check and maintain wiring	3	H
0020	Repair equipment	2	H

Save Close Order

