

# Final Assignment

Paul Heaney

## 1. “Design Thinking”

### Station Complement Check

A Train Station Manager needs to know if they have enough staff, of the required mix, at the start of a particular shift. They need to decide quickly as they cannot open a station that is understaffed as it may present a safety risk. Further, Station Managers may need to request additional staff ASAP from a pool of employees who are available to provide cover, across a group of stations, for a shift that is short staffed.

This requirement probably applies to most shift-based industries or where you need to balance resources between locations.

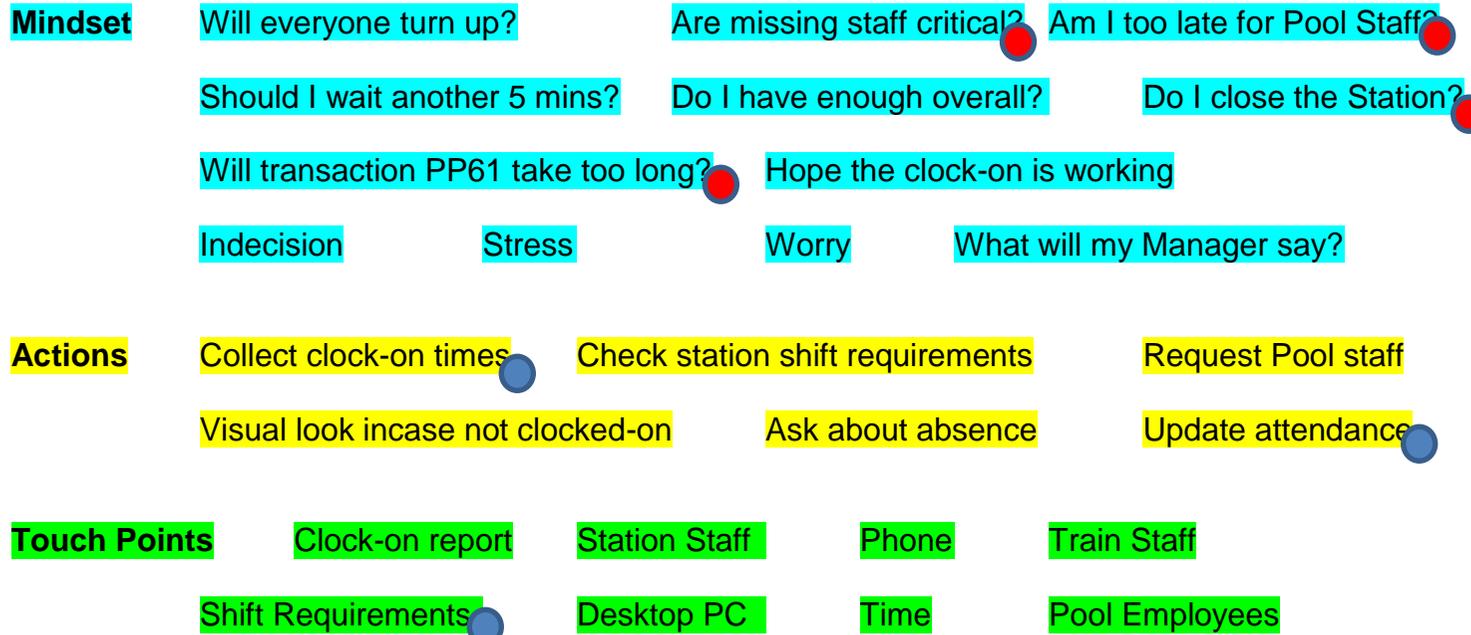
For each station and type of duty there is a minimum number of staff specified as well as a minimum with certain qualifications or skills. This can be different for each station depending on its size and, for example, if lifts are available.

Station Managers currently have to look at sign-on sheets/electronic clock-in to see who is present and SAP transaction PP61 to determine the mix of duties required (a bit like a ship's complement). I'll assume for this exercise that they have electronic clock-in details available. I'd like to present the station's shift requirements details and current attendance for a Station Manager at a glance.



### 3. Current User Experience Journey

Duration: 30 mins.



## 4. Mockup Design

Mockup of **Station Complement Check** (using SAP Fiori PowerPoint Prototyping Kit)

The screenshot displays the SAP Fiori 'Station Complement Check' interface. The top navigation bar includes the SAP logo and a user profile icon labeled 'User Name'. The main content area is divided into a left sidebar and a main panel.

**Shift Requirements (21)**

Shift	Start Time	Duties Required
Monday Early	06:00	13 Duties required
<b>Monday Normal</b>	<b>12:00</b>	14 Duties required
Monday Late	18:00	12 Duties required
Tuesday Early	06:00	13 Duties required
Tuesday Normal	12:00	15 Duties required

**Station Complement Check**

**Monday Normal 12:00**

Duties:		Reqd.	Min.
Control Room		3	2
Ticket Office		4	2
Gates		4	3
Platform		3	2
<b>Qualifications:</b>	First Aid	4	3
	Lift Maintenance	0	0

**Duties Required (14)**

Duties	Employee Name	Qualifications	Signed-On
Control Room 1	Employee Name 1	First Aid	<input checked="" type="checkbox"/> Yes
Control Room 2	Employee Name 2		<input type="checkbox"/>
Control Room 3	Employee Name 3		<input checked="" type="checkbox"/> Yes
Ticket Office 1	Employee Name 4	First Aid	<input checked="" type="checkbox"/> Yes
Ticket Office 2	Employee Name 5		<input type="checkbox"/>
Ticket Office 3	Employee Name 6		<input checked="" type="checkbox"/> Yes

### Notes:

Data Source – Header: The backend data OData retrieval function would derive the Station Manager's Organizational Unit (via their position in the Org. Structure). The Org. Unit, in this case, would be would be a Station. It would also retrieve the duty requirements for that Shift/Station.

Data Source – Detail: The employees previously assigned to the duties (in transaction PP61) and the sign-on attendance for the current shift week (Sunday to Saturday) would be retrieved as the detail data.

Request for Pool Staff: The task to request additional pool staff would be a separate better suited for the pool staff manager who would have visibility of all duty requirements for all stations in the group.

## **5. Final Assignment**

My solution was based on MyFirstFioriApp\_w4u2 from the course.

### Change Elements for the Header View

- Change texts for headings in i18n
- Change texts for individual fields using the Layout Editor
- Change the Mock data to suit the application

### Change and Add Elements to the Detail View

- Remove the Existing Tabs
- Modify the metadata.xml to include new fields for the Duty and Staff tables
- Create a new tab for Duty Requirements with a table element (use default Mock data)
- Create a new tab for Employees Signed-on with a table element (use default Mock data)
- Use the Icon Explorer to find suitable icons for the new tabs

### Changes from Prototype:

- I moved the shift requirement to a Tab as it could be a variable length list depending on the Station. There could be an extra column with a count of actual employees signed on.
- A total available staff count was included on the Staff Icon as well as there is also a minimum total staff required.
- As the Station Managers is mainly interested in absent employees, these are sorted to the top of the Staff Attendance tab.



Fiori showing the duty Requirements listed (including actual number at work):

Station Complement Check		Shift Requirements																																	
Search <span>🔍</span> <span>↻</span>		18 May 2015		12:00																															
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Fiori showing the Staff currently signed-on (vacant duties listed first):

Station Complement Check		Shift Requirements																					
<i>Search</i>  		<b>18 May 2015</b> <span style="float: right;"><b>12:00</b></span>																					
Monday Early	06:00	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <sup>14</sup>            Requirements         </div> <div style="text-align: center;">  <sup>12</sup>            Staff         </div> </div>																					
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