

Use Case Monitoring of food shelf life

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<i>Context</i>	As soon as a measured value is recorded that is unfavorable for the food, the system shall provide the kitchen staff with the ability to receive relevant information to take appropriate measures and check their success.				
<i>Domain</i>	Food & Nutrition	<i>Business Value</i>	Personalization	<input type="checkbox"/>	Acquisition <input checked="" type="checkbox"/>
			Communication	<input checked="" type="checkbox"/>	Optimization <input checked="" type="checkbox"/>
			Control	<input type="checkbox"/>	Analysis <input checked="" type="checkbox"/>

Description		
<i>Stakeholders & Interests</i>	<i>Stakeholder</i>	<i>Interests</i>
	Kitchen staff	Use of edible food; support in recognizing spoiled food
	Manager	Efficient food collection; waste reduction
<i>Required Data</i>	Humidity Temperature Methane content	
<i>Current Conditions</i>	Food and its shelf life are recorded manually in books by kitchen staff. Errors and inaccuracies in recording are unavoidable. In addition, the proportion of spoiled and discarded food is usually not noticed.	

Procedure		
<i>Trigger</i>		
<i>Use Case Procedure</i>	<i>Step</i>	<i>Activity</i>
	1. Detection of unfavorable methane amount	A methane content of well over 0.00017% is recorded.
	2. Information transmission	The kitchen staff are informed about the event and receive relevant information.
	3. Taking measures	The kitchen staff takes the necessary measures and restore normal conditions.
	4. Check measured values	The kitchen staff check whether the measures were successful.
<i>Use Case Anomalies</i>	<i>Step</i>	<i>Activity</i>
	1a. Detection of unfavorable temperature and humidity	A temperature between 40 and 150 °C and a humidity of over 55% is measured.
<i>Final State</i>	A measured value that is advantageous for the food is recorded.	

Overlaps						
<i>Domain 2</i>	Kitchen environment	<i>Business Value</i>	Personalization	<input type="checkbox"/>	Acquisition	<input checked="" type="checkbox"/>
			Communication	<input checked="" type="checkbox"/>	Optimization	<input checked="" type="checkbox"/>
			Control	<input type="checkbox"/>	Analysis	<input checked="" type="checkbox"/>
<i>Sum of Business Values total (incl. title domain, header)</i>			Personalization	0	Acquisition	2
			Communication	2	Optimization	2
			Control	0	Analysis	2