Order Procesing

Work in progress

Target release	Release 1 or later
Epic	Student will be able to run a full order execution process supported by a GUI on site level and other appropriate command tools (or GUI) at the the other layers.
Document status	DRAFT
Document owner	Ralf Banning
Designer	Ralf Banning
Developers	
QA	

Goals

• Offer interesting logistical experiments to students, here: plan, release and execute the order processing.

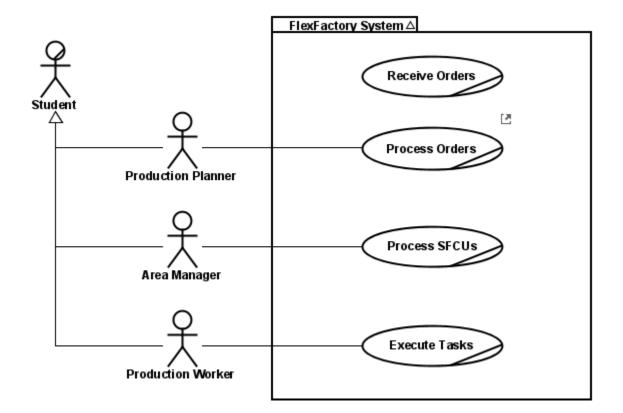
Background and strategic fit

See Why flecsimo?

Assumptions

• Orders will be provided from external systems or the order data is provided by the simulation manager (e. g. lecturer or lab-engineer)

Requirements (Use Cases)



#	Title	Use Case	Importance	Notes
OP- 1	Receive Orders		Optional	
OP- 2	Process Orders	A Production Planner accepts or creates a new production order checks its feasibility and plans the location and schedule to process it.		
OP- 3	Process SFCUs	An Area Manager controls the processing of assigned Shop floor Control Units (SFCU's)		
OP- 4	Execute Production Tasks	One or more Production Worker execute or support assigned Production Tasks within a manufacturing cell	Must have	

User interaction and design

UC: OP-2 Process orders							
A Produ	uction Planner accepts or creates a new production order	checks its feasibility and plans the location and schedule to process it.					
Pre	A new Production Order has been received.						
Post	The Production Order has been released, and the corresponding information on the to-process Shop floor Control Units (SFCUs) has been distributed to the planned production areas (shops).						
Step	Actor intention	System responsibility					
1	The Production Planner selects the "Process Order" view and selects the "check" function.	The System shows a list of all new / unchecked Production Orders.					
2	The Production Planner selects one or more Production Order for "Check".	The Systems checks if the data is feasible to process, i.e. if the required Production Data Specification is known to the system.					
3	The Production Planner starts planing of the location (area /shop) and the time schedule for the execution of the Production Order in the system.	The system computes and offers the feasible planning alternatives.					

4	and releases one or more Production Orders. c				The System changes the Production Order status to "Released" and generates the corresponding Shop floor Control Data (including the required Production Data Specification) and transfers the data to the selected location							
Alternat	ives and notes											
4A	[Data not feasible] tbd											
5A	[No feasible pla	anning alter	native four	nd] tbd								
7A	[Planning alter	natives not a	acceptable] tbd								
🔔 Note	Note: both, success as problems have to be logged, any state change of the process has to be logged.											
Licor Int	eraction											
				tep 7. The user inte								
SeleSeleSele	 Select the "Process Order" View Select the Menu entry on the side bar Select one or more Production Orders. You may step through the use case by stepping through the pages of following wire frame specification: site::FUAS site::FUAS https://***/fuas/*** 											
		Inbox Process Order Monitoring										
Che		Releasable Orders										
Rele		Release	Order	Product		Qty	SCHD	Area				
here			1000021 1000034	Hobgoblin Blue Hobgoblin Green		2	2020-10-01	???? FA01				
			1000035	Bycicle MTB Type FR56		1	2020-10-02					
							(Releas	e			

Questions

Below is a list of questions to be addressed as a result of this requirements document:

Question	Outcome				
No question yet					

Not Doing

- For first release no order editing or re-start will be possible
 No "Housekeeping" is planned for the first release, i. e. orders may not deleted via the GUI.