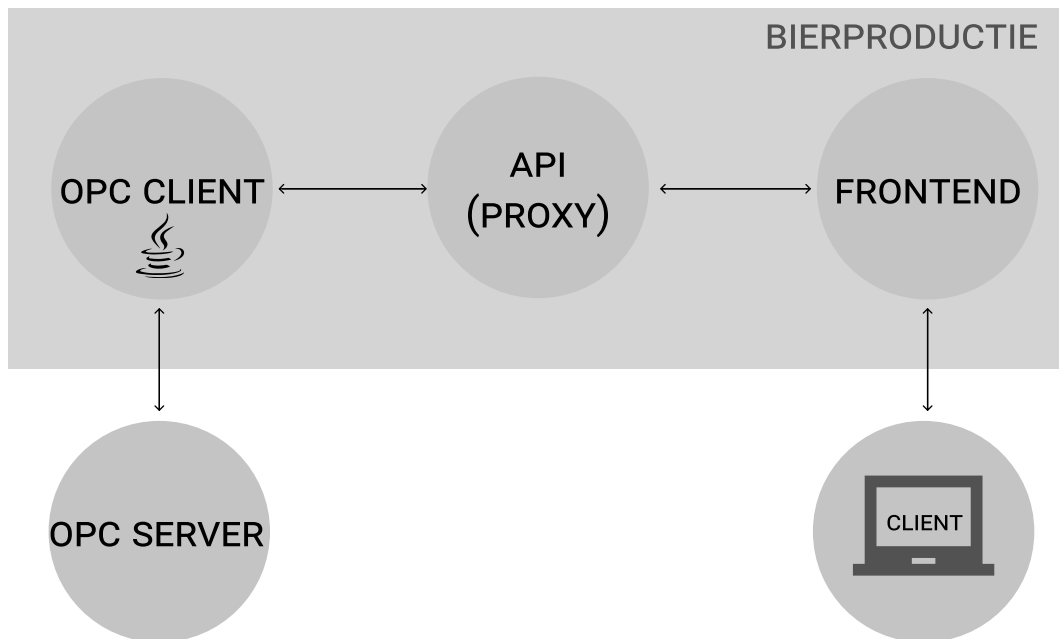


Bierproductie

A management system for brewing machines



Bachelor of Engineering, Software Technology

Semesterproject 3. semester, ST3-PRO

Project Period: 31.08.2020 - 19.12.2020

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Group 06:

Jakob Rasmussen, jakra19@student.sdu.dk

Kenneth M. Christiansen kechr19@student.sdu.dk

Kevin K. M. Petersen, kepet19@student.sdu.dk

Kristian N. Jakobsen, kjako19@student.sdu.dk

Simon Jørgensen, sijo819@student.sdu.dk

Supervisor: Parisa Niloofar, parni@mmmi.sdu.dk

University of Southern Denmark
The Faculty of Engineering
The Mærsk Mc-Kinney Møller Institute
Campusvej 55, 5230 Odense M

Title: Bierproductie

Institution: University of Southern Denmark
The Faculty of Engineering, The Mærsk Mc-Kinney Møller Institute
Campusvej 55, 5230 Odense M

Education: Bachelor of Engineering, Software Technology

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Course Title: Industrial 4.0 cyber-physical software systems


Internal Course Code: ST3-PRO

Project Period: 31.08.2020 - 19.12.2020

ECTS: 10 ECTS

Supervisor: Parisa Niloofar

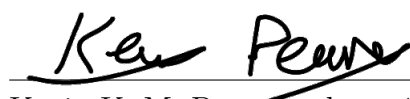
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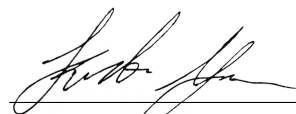
Jakob Rasmussen, jakra19@student.sdu.dk



Kenneth M. Christiansen, kechr19@student.sdu.dk



Kevin K. M. Petersen, kepet19@student.sdu.dk



Kristian N. Jakobsen, kjako19@student.sdu.dk



Simon Jørgensen, sijo819@student.sdu.dk

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By signing this document, each group member confirms that everyone have participated equally to this project, and everyone is thus collectively responsible for the content of the report.

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Operation contracts are used to specify what state the program has completed, before it can run the specific operation. Operation contracts also specify what happens after the operation is run.

start	
System operation	start
Cross References	Use case: Start machine see table ??
Responsibility	Starting the beer machine if the pre-conditions is met. If the pre-conditions is not met, the beer machine will not start
Output	The beer machine started the production
Pre-conditions	The beer production machine needs to be in ready mode, that is, not producing beer.
Post-conditions	The beer machine started brewing

Table 1: Operation Contracts start

stopProduction	
System operation	stopProduction
Cross References	Use case: Stop the beer Machine see table ??
Responsibility	Stop's the beer machine if the pre-conditions is met. If the pre-conditions is not met, the beer machine will not do anything
Output	The beer machine is stopped
Pre-conditions	The beer machine needs to be running
Post-conditions	The beer machine is stopped

Table 2: Operation Contracts stopProduction

reset	
System operation	reset
Cross References	Use case: reset see table ??
Responsibility	It is responsible for resetting the beer machine.
Output	reset the beer machine.
Pre-conditions	The beer production machine needs to be in ready mode, that is, not producing beer.
Post-conditions	The beer production machine has been reset.

Table 3: Operation Contracts reset

clear	
System operation	clear
Cross References	Use case: clear see table ??
Responsibility	It is responsible for clearing the beer machine.
Output	The beer machine has been cleared.
Pre-conditions	The beer production machine needs to be in ready mode, that is, not producing beer.
Post-conditions	The beer production machine has been cleared.

Table 4: Operation Contracts clear

display live data	
System operation	displayLiveData
Cross References	Use case: displayLiveData see table ??
Responsibility	It is responsible for posting data to the client.
Output	Post data to the client.
Pre-conditions	The beer production machine needs to be on and producing beer.
Post-conditions	Live data has been displayed for the user.

Table 5: Operation Contracts monitorAndDisplayData

batchReport	
System operation	batchReport
Cross References	Use case: batchReport see table ??
Responsibility	Make a report after the pre-conditions is met and adds the report to the database.
Output	Produces a batch report and display it for the user.
Pre-conditions	The beer Machine needs to have produced a batch.
Post-conditions	A batch report has been displayed for the user.

Table 6: Operation Contracts produceBatchReport

6.2.3 Updated UML Class Diagram

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