

# System Test Report for Coffee Machine System

- Test Cases Specification
- Test Summary Report

## Project Team

T5

Latest update on:

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## Team Information

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## Table of Contents

1	Introduction .....	3
1.1	Objectives.....	3
1.2	References.....	3
2	System test case specification.....	3
2.1	Test case specification identifier.....	3
2.2	Test items .....	3
2.3	Input specifications.....	9
2.4	Output specifications.....	9
3	Environmental needs.....	10
4	System test summary report .....	10
4.1	Test summary report identifier.....오류! 책갈피가 정의되어 있지 않습니다.	
4.2	Evaluation.....	10

1 Introduction

1.1 Objectives

본 문서는 2016년 2학기 건국대학교 Software Engineering 수업에서 T5이 개발한 Coffee Machine System(이하 CMS)의 System testing Plan(STP)을 위한 문서이다. System Test(ST)를 위해 필요한 활동과 기준에 대한 정의, 최종적인 환경적인 요구사항, test 도구들에 대해 세부적으로 명시한다.

1.2 References

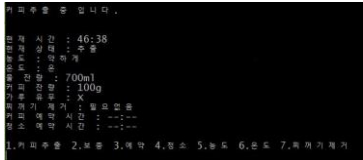
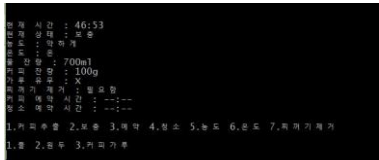
- 2016SE\_CMS\_SRS
- [T5]CoffeeMachine SRA 3.0ver
- [T5]CoffeeMachine SD 2.0ver
- System\_Testing\_Plan


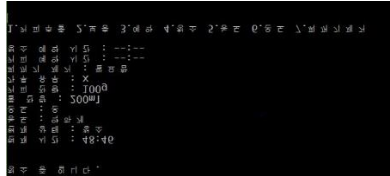
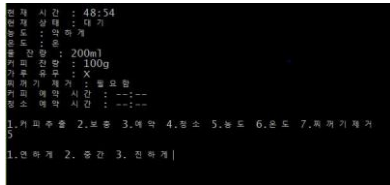
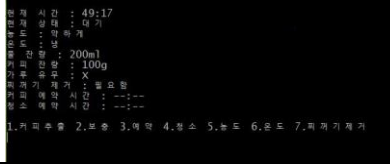


2 System test case specification

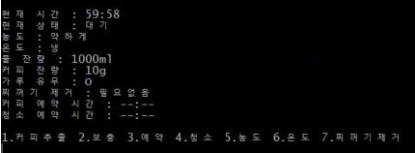
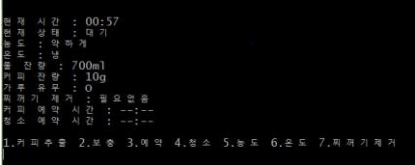

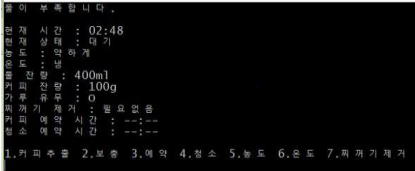
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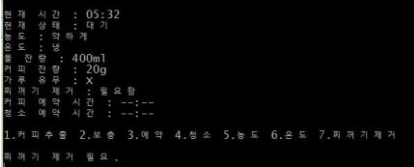
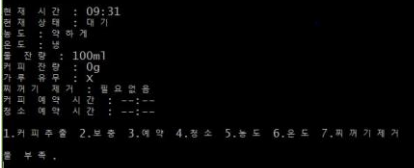
T5\_CMS.STC.Number.Number

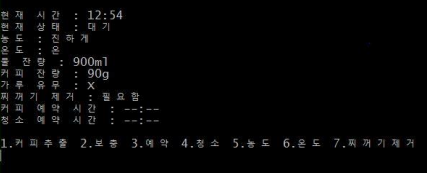
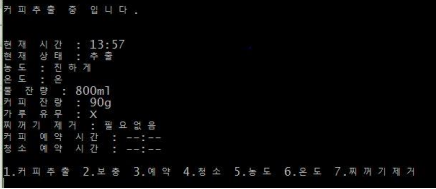
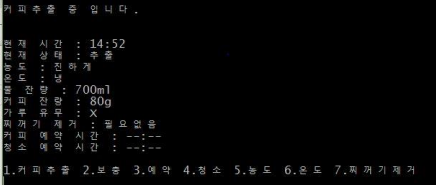
2.2 Test items

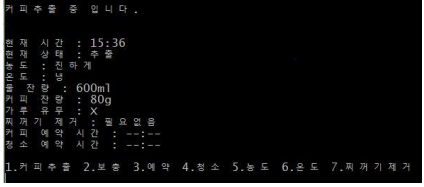


Test Case Identifier	Input Specification	Output Specification
T5_CMS.STC.000_000	("Button=보충, 1->1000/ 2->100 / 3" *current : water =1000, coffee=100, powder=1, remove=0) "Button=커피추출"	"현재상태 : 커피추출 추출 중입니다." 
T5_CMS.STC.000_001	"Button=보충"	"현재상태 : 보충 1.물 2.원두 3.가루" 
T5_CMS.STC.000_002	"Button=예약"	"현재상태 : 예약"

		<p>0.커피 1.청소"</p> 
T5_CMS.STC.000_003	<p>(*current : water =700, coffee=100, powder=1, remove=1)</p> <p>"Button=청소"</p>	<p>"현재상태 : 청소중 청소 중입니다"</p> 
T5_CMS.STC.000_004	<p>"Button=농도설정"</p>	<p>"1.연하게 2.중간 3.진하게"</p> 
T5_CMS.STC.000_005	<p>(default=온)</p> <p>"Button=온도"</p>	<p>"온도 : 냉"</p> 
T5_CMS.STC.000_006	<p>(*current : water =200, coffee=100, powder=1, remove=1)</p> <p>"Button=찌꺼기 제거"</p>	<p>"찌꺼기 제거 : 필요함"</p> 
T5_CMS.STC.001_000	<p>(*current : water =200, coffee=100, powder=1, remove=0)</p> <p>"Button=보충, 1-&gt;800"</p>	<p>"물 잔량 : 1000ml"</p> 
T5_CMS.STC.001_001	<p>("Button=보충, 1-&gt;800"</p>	<p>"커피 잔량 : 10g"</p>

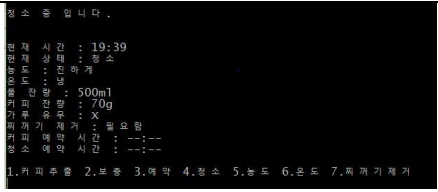
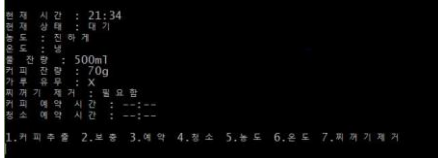
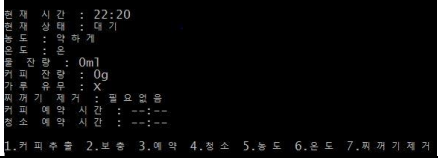
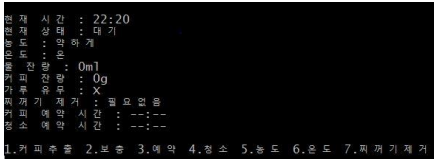
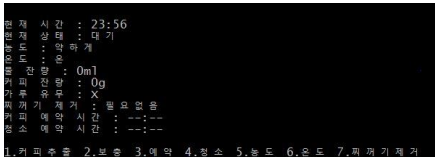
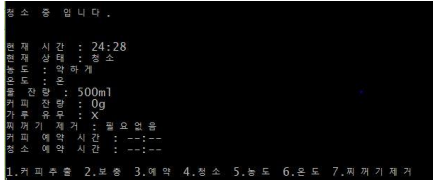
	<p>2-&gt; -100"</p> <p>*current : water =1000, coffee=0, powder=1, remove=0)</p> <p>"Button=보충, 2-&gt; &gt;10"</p>	
<p>T5_CMS.STC.001_002</p>	<p>("Button=커피추출, 찌꺼기제거"</p> <p>*current : water =700, coffee=10, powder=0, remove=0)</p> <p>"Button=보충, 3"</p>	<p>"가루 유뮤 : 0"</p> 
<p>T5_CMS.STC.001_003</p>	<p>(*current : water =700, coffee=10, powder=0, remove=0)</p> <p>"Button=보충, 2-&gt; &gt;150"</p>	<p>"커피 잔량 : 100g"</p> 
<p>T5_CMS.STC.002_000</p>	<p>("Button=보충,1-&gt; &gt;-300</p> <p>*current : water =400, coffee=100, powder=0, remove=0)</p> <p>"Button=청소"</p>	<p>"물 부족"</p> 

<p>T5_CMS.STC.002_001</p>	<p>("Button=보충,2-&gt;-100</p> <p>*current : water=400, coffee=0, powder=0, remove=0)</p> <p>"Button=커피추출"</p>	<p>"원두 부족"</p> 
<p>T5_CMS.STC.002_002</p>	<p>("Button=보충,2-&gt;20</p> <p>Button=커피추출</p> <p>Button=보충,1-&gt;300</p> <p>*current : water=400, coffee=10, powder=0, remove=1)</p> <p>"Button=커피추출"</p>	<p>"찌꺼기제거 필요"</p> 
<p>T5_CMS.STC.002_003</p>	<p>("Button=찌꺼기 제거,</p> <p>커피추출, 찌꺼기 제거"</p> <p>*current : water=100, coffee=0, powder=0, remove=0)</p> <p>"Button=커피추출"</p>	<p>"물 부족"</p> 
<p>T5_CMS.STC.002_004</p>	<p>"Button=커피추출"</p>	<p>"소리가 짧게 1번 출력"</p>

	출"	
T5_CMS.STC.003_000	<p>("Button=농도,3" "Button=온도 (온)" "Button=보충/1- &gt;1000,2-&gt;100"  *current : water =1000, coffee=100, powder=0, remove=0)  "Button=커피추 출"</p>	<p>"커피 추출 중입니다" (분쇄-&gt;가열-&gt;추출)</p> 
T5_CMS.STC.003_001	<p>("Button=찌꺼기 제거" "Button=보충, 3"  *current : water =900, coffee=90, powder=1, remove=0)  "Button = 커피추 출"</p>	<p>"커피 추출 중입니다" (가열-&gt;추출)</p> 
T5_CMS.STC.003_002	<p>("Button=찌꺼기 제거" "Button=온도"  *current : water =800, coffee=90, powder=0, remove=0)</p>	<p>"커피 추출 중입니다" (분쇄-&gt;추출)</p> 

	<p>"Button = 커피추출"</p>	
T5_CMS.STC.003_003	<p>("Button=찌꺼기 제거" "Button=보충,3"  *current : water =700, coffee=80, powder=1, remove=0)  "Button = 커피추출"</p>	<p>"커피 추출 중입니다" (추출)</p> 
T5_CMS.STC.004_000	<p>("Button=찌꺼기 제거"  *current : water =600, coffee=80, powder=0, remove=0)  "Button=예약, 0" "현재시간+20초 입력"</p>	<p>(20초 후) "커피 추출 중입니다"</p> 
T5_CMS.STC.004_001	<p>(*current : water = 500, coffee=70, powder=0, remove=1)  "Button=예약, 1" "현재시간+30초 입력"</p>	<p>(30초 후) "청소 중입니다"</p> 
T5_CMS.STC.005_000	<p>("Button=보충,1,1000"  *current : water =</p>	<p>"청소 중입니다"</p>



	1000, coffee=70, powder=0, remove=1)  "Button=청소"	
T5_CMS.STC.006_000	"ctl + z" "재실행"	같은 화면 출력 
T5_CMS.STC.006_001	"pData 삭제" "재실행"	초기 화면 출력 
T5_CMS.STC.007_000/001	Null	초기 화면 
T5_CMS.STC.007_002	"Button=커피추출" "출"	물 부족 
T5_CMS.STC.007_003	"Button=보충/2-> >1000" "Button=청소"	"청소 중입니다" 출력 

<Table System Test Design Identification> \*문서 마지막 참조

2.3 Input specifications

<Table System Test Design Identification> 참조

2.4 Output specifications

<Table System Test Design Identification> 참조

3 Environmental needs

CMS의 System test를 위한 환경적 요구사항으로 모든 명령어 입력은 Cygwin에서 실행한다

4 System test summary report

4.1 Evaluation

총 28개의 Test중 0번의 실패, 28개의 성공 결과를 얻었다.