

Unit Test Report for POS System

- Test Cases Specification
- Test Summary Report

Project Team

1 Team

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1 Introduction

1.1 Objectives

본 문서는 2017년 건국대학교의 소프트웨어공학 개론 강의의 실습과제를 설명한다. 실습과제는 Point Of Sale (POS) System을 소프트웨어만을 이용한 가상의 시스템으로 구현하는 것이다

1.2 References

[2017SE_B][T1]SRA 2.0

[2017SE_B][T1]SDS 1.0

2 Unit test case specification

2.1 Test case specification identifier

Test case Identifier	Input Specification (input // 주어진 환경)	Output Specification
T1_POS_000_000	stockList, "001", &a, name (재고struct,바코드,제품가격,제품명) // stockList has Item("001") ,Item("010")	True
T1_POS_000_001	stockList, "010", &a, name // 위와 동일환경	True
T1_POS_000_002	stockList, "010", &a, name // 위와 동일환경	True
T1_POS_000_003	stockList, "011", &a, name // 위와 동일환경	False
T1_POS_001_000	saleList, price, "001" (현재판매목록, 상품가격, 바코드) //	3

	saleList has Item("001")*2 saleList has Item("010")*1	
T1_POS_001_001	saleList, price, "010" // 위와 동일환경	2
T1_POS_002_000	1,2, saleList,stockList (current fruit 1, increment current fruit by 2) // stockList has Item("fruit")*20 saleList has Item("fruit")*1	3
T1_POS_002_001	1,1000, saleList,stockList // 위와 동일환경	-1
T1_POS_002_002	1,-500, saleList,stockList // 위와 동일환경	0
T1_POS_003_000	saleList, stockList // saleList has Item("001")*1 saleList has Item("001")*1 StockList has Item("001")*100 StockList has Item("010")*100	99
T1_POS_003_001	stockList, "010" // 위와 동일환경	99
T1_POS_004_000	stockList, "001" (product current quantity, product barcode) // StockList has Item("fruit")*100 ReturnList has Item("fruit")*3	103
T1_POS_004_001	stockList, "010" // 위와 동일환경	102
T1_POS_005_000	saleList, "001" (현재판매목록struct, 바코드)	1

	SaleList has Item("001")*1 // saleList has Item("fruit")*1	
T1_POS_005_001	saleList, "002"	-1
T1_POS_006_000	"001" (추가한 상품 바코드"001") // productList has Item("001")*2	True"
T1_POS_006_001	"000" // 위와 동일환경	False

2.2

2.3 Test items

Identifier	Feature	Valid/Invalid value
T1_POS_000_000	2.1.5 check stock	valid
T1_POS_000_001	2.1.5 check stock	valid
T1_POS_000_002	2.1.5 check stock	valid
T1_POS_000_003	2.1.5 check stock	invalid
T1_POS_001_000	2.1.8 AddQuantity	valid
T1_POS_001_001	2.1.8 AddQuantity	valid
T1_POS_002_000	2.1.11 NOG	valid
T1_POS_002_001	2.1.11 NOG	invalid
T1_POS_002_002	2.1.11 NOG	invalid
T1_POS_003_000	2.1.9 Complete Sale	valid
T1_POS_003_001	2.1.9 Complete Sale	valid
T1_POS_004_000	2.1.10 Return	valid
T1_POS_004_001	2.1.10 Return	valid
T1_POS_005_000	2.1.6 CheckSaleList	valid
T1_POS_005_001	2.1.6 CheckSaleList	valid
T1_POS_006_000	2.1.7 AddList	valid
T1_POS_006_001	2.1.7 AddList	invalid

2.4 Input specifications

2.1 Table 참조

2.5 Output specifications

2.1 Table 참조

3 Environmental needs

Platform Environment : Cygwin

Text Editor : vi

Compiler : gcc

Testing Program : SimpleCTest

4 Unit test summary report

4.1 Test summary report identifier

Identifier	Output Specification	Result	Pass/Non Pass
T1_POS_000_000	True	True	Pass
T1_POS_000_001	True	True	Pass
T1_POS_000_002	True	True	Pass
T1_POS_000_003	False	False	Pass
T1_POS_001_000	3	3	Pass
T1_POS_001_001	2	2	Pass
T1_POS_002_000	3	3	Pass
T1_POS_002_001	-1	-1	Pass
T1_POS_002_002	0	0	Pass
T1_POS_003_000	99	99	Pass
T1_POS_003_001	99	99	Pass
T1_POS_004_000	103	103	Pass
T1_POS_004_001	102	102	Pass
T1_POS_005_000	1	1	Pass

T1_POS_005_001	-1	-1	Pass
T1_POS_006_000	True	True	Pass
T1_POS_006_001	False	False	Pass

4.2 Evaluation

Total test case : 17개

Passed : 17개

Failed : 0개