

“Priority” Category Partitioning Testing Tool

Team. 4

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01 Project Introduction

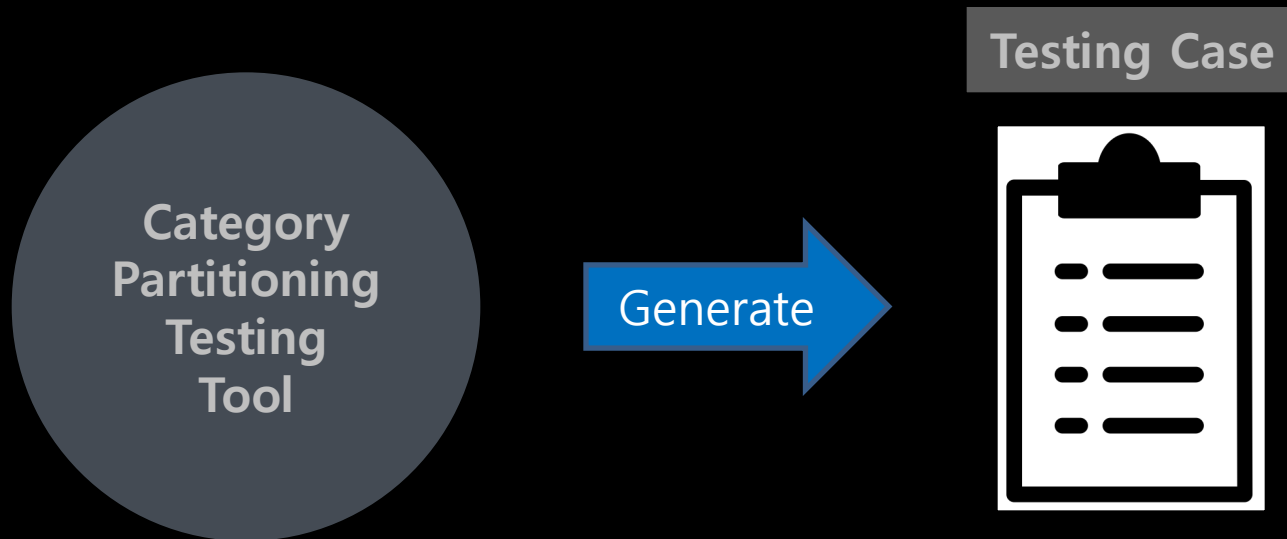
Motivation

Project Objectives

Implement Prototype

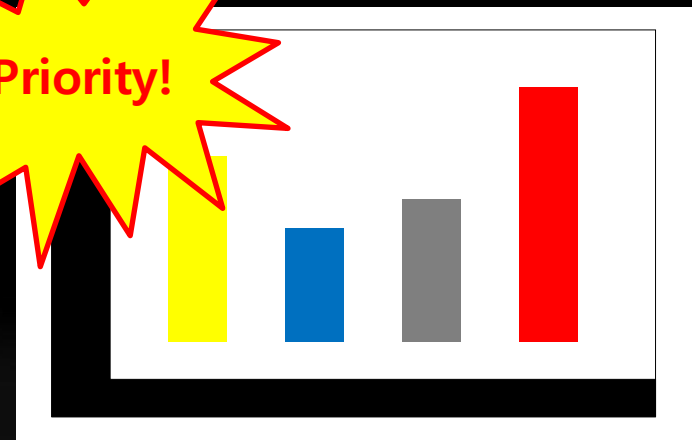
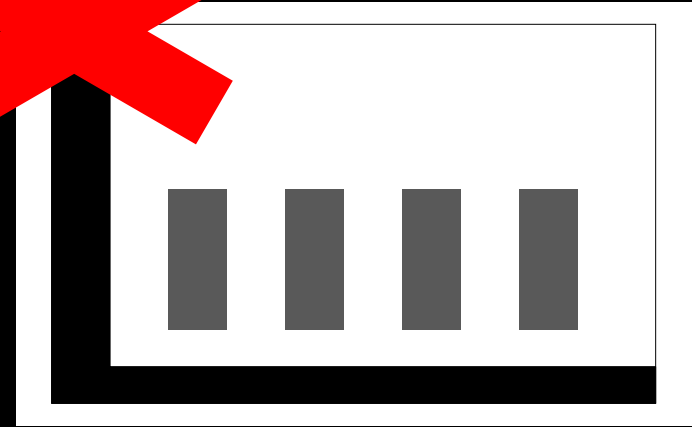
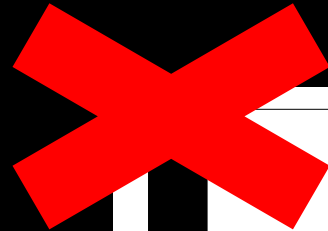
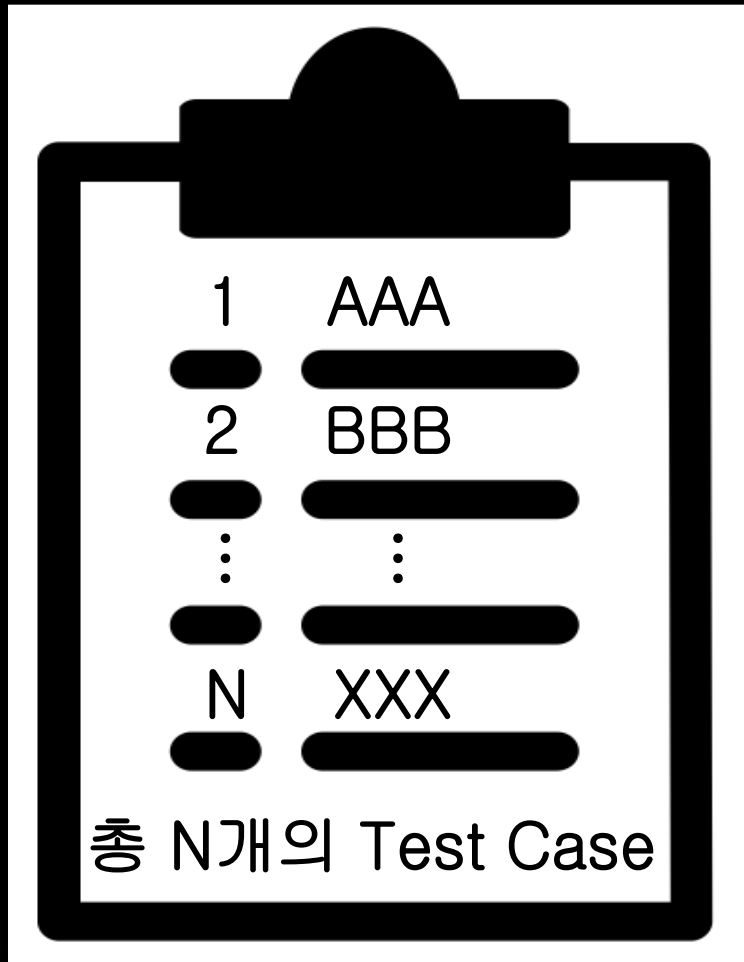
01 Project Introduction

Motivation



01 Project Introduction

Motivation



01 Project Introduction

Project Objectives



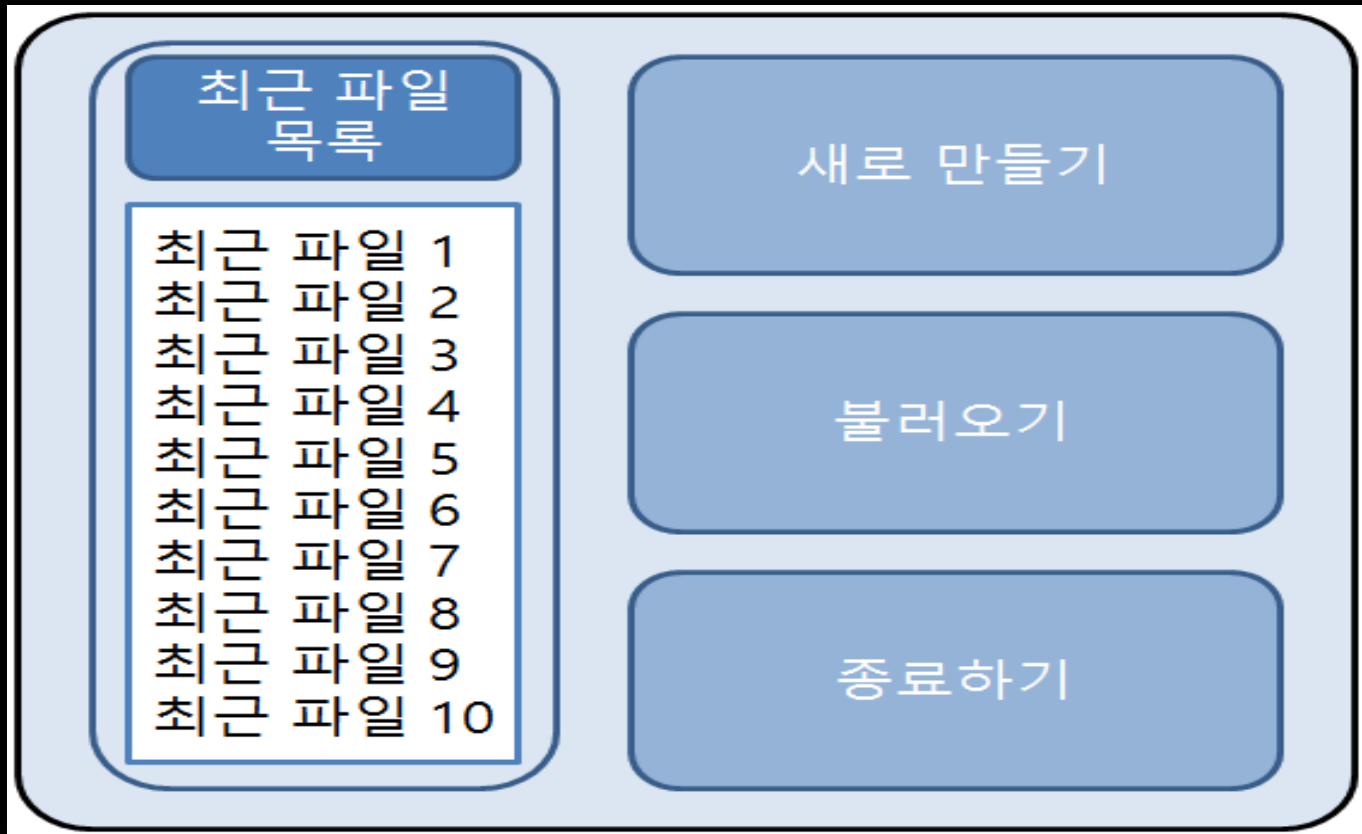
Category Partitioning Test Case Generating Tool

- category, choice, constraint, priority를 입력 받아 테스트 케이스를 생성
- 테스트 케이스들을 우선순위 [Priority]대로 정렬
- 생성된 테스트 케이스들을 엑셀 파일 형태로 출력
- 현재까지 진행한 파일을 언제든지 저장/불러오기



01 Project Introduction

Implement Prototype



01 Project Introduction

Implement Prototype

새 파일 이름:

1단계 > 2단계 > 3단계 > 4단계 > 5단계 > 6단계 > 7단계

Category 목록

Open File 확장자	-
파일 이름 중복	-
⋮	+

01 Project Introduction

Implement Prototype

1단계 > 2단계 > 3단계 > 4단계 > 5단계 > 6단계 > 7단계

Category 목록

Open File 확장자

File.c	-
File.ect	-
	+

파일 이름 중복

.....

이전 단계 다음 단계

1단계 > 2단계 > 3단계 > 4단계 > 5단계 > 6단계 > 7단계

...

Property, IF_Property, Error, Single, Priority 의 값 입력받기

이전 단계 다음 단계

01 Project Introduction

Implement Prototype

1단계 > 2단계 > 3단계 > 4단계 > 5단계 > 6단계 > 7단계

모든 Specification 정보
최종 확인

이전 단계 완료 하기

Category Partitioning Test Case가
총 xxx개 생성되었습니다.

엑셀로 저장 처음 화면

01 Project Introduction

Implement Prototype

H16		f_x				
	A	B	C	D	E	F
1	Number	Category1	Category2	.....	CategoryN	Priority Score
2	1	value1	value2	.....	valueN	10
3	2	.....				10
4	3	.....				8
5	4	.....				6
6	5	.....				4
7	6	.....		...		2
8	...	...		...		...
9						



02 Requirement

Functional Requirements
Non-Functional Requirements

02 Requirement

Functional Requirements

Function	Description
NewSpecification	Make new specification file.
LoadSpecification	Load specification file.
RecentSpecification	Load specification file in a recent list by double clicking.
Quit	Shut down program.
SetFileName	Set specification file name.
AddCategory	Add category.
DeleteCategory	Delete category.
AddInputValue	Add input value.
DeleteInputValue	Delete input value.
AddProperty	Add property.
DeleteProperty	Delete property.
AddIfProperty	Add if property.
DeleteIfProperty	Delete if property.
AddErrorSingle	Add single and error constraints.
DeleteErrorSingle	Delete single and error constraints.
SetPriority	Set priority rank.
ShowAllSpecification	Show all specification information.

02 Requirement

Functional Requirements

GoPrevStep↵	Go previous step page.↵
GoNextStep↵	Go next step page.↵
GoFinishStep↵	Go to complete step page.↵
ExtractTestCase↵	Extract a Category Partitioning Test Case from a given Specification.↵
Priority Sorting↵	Sort test cases via priority factors↵
SaveTestCase↵	Save the extracted Category Partitioning Test Case.↵
MakeTestCaseFile↵	Generate the extracted Category Partitioning Test Case as an Excel file.↵
GoInitialPage↵	Go back to first page.↵
SaveOngoing↵	Save ongoing specification file↵
FileIO↵	Load/Save specification file.↵
CheckSameName↵	Check existence of the same name at each step.↵

02 Requirement

Non Functional Requirements

- 빠른 Test Case 생성
- 직관적인 인터페이스

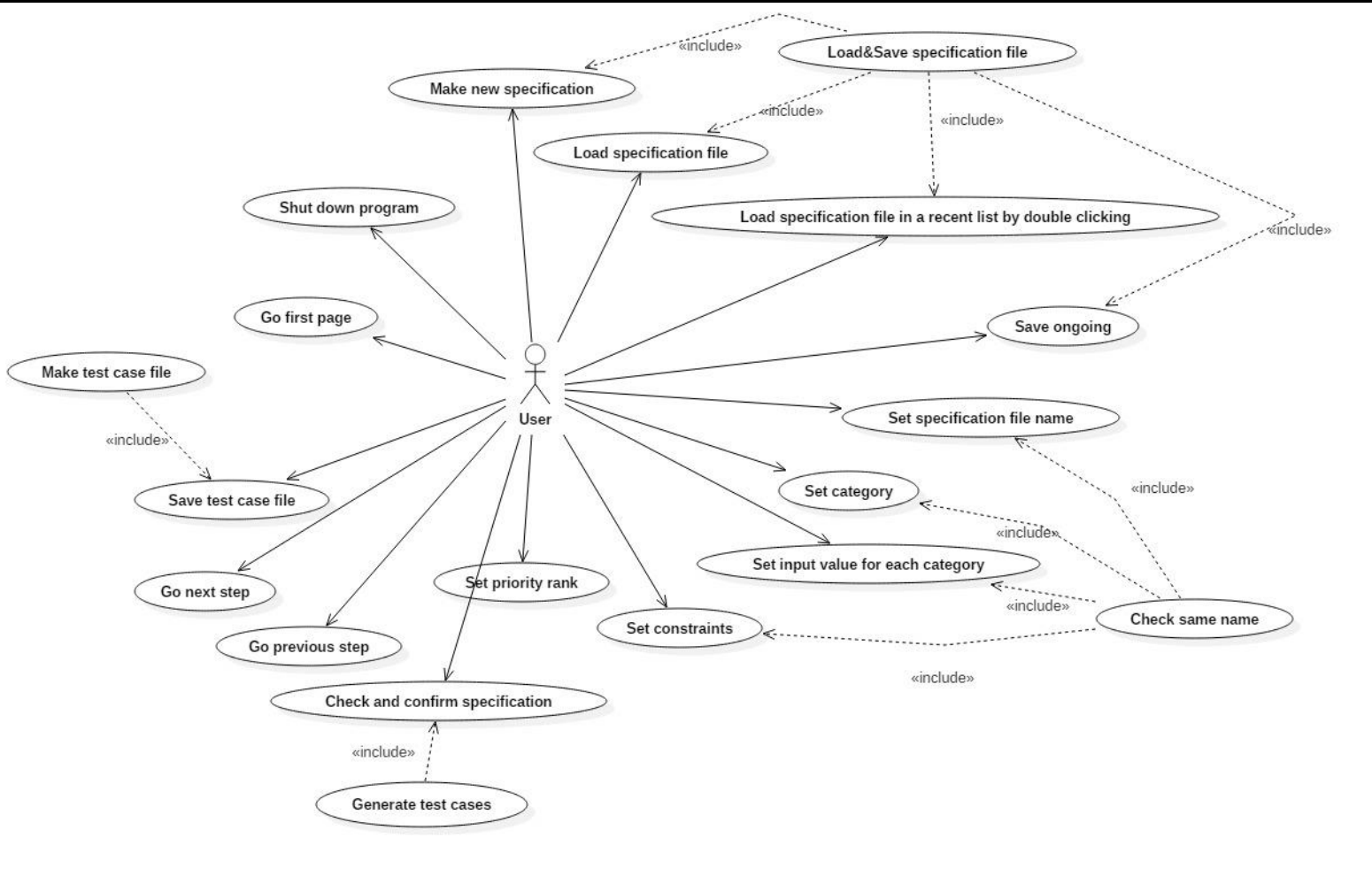


03 Use Case Diagram

Draw a Use Case Diagram

03 Use Case Diagram

Draw a Use Case Diagram





04 Plans & Environments

Resource Estimation
Risk Reduction Plan
Environments

04 Plans & Environments

Resource Estimation

- Human Resource : 4명
- Project Duration : 3개월(12주)
- Human Efforts(Man-Month) : 4M/3M
- Cost : 식대 1,200,000원
(5,000원/日,人x 4人x 5日/주x 12주)

04 Plans & Environments

Risk Reduction Plan

Risk [Ⓢ]	Reduction Plan [Ⓢ]
OOPT 경험 부족 [Ⓢ]	교수님, 조교님께 자문을 구한다 [Ⓢ]
JAVA 사용 경험 부족 [Ⓢ]	JAVA 및 GUI 공부 [Ⓢ]
Category Partition Method에 대한 이해 부족 [Ⓢ]	Category Partition Method 공부 [Ⓢ]
작업 공간 부족 [Ⓢ]	실습실 적극 이용 [Ⓢ]

04 Plans & Environments

Environments

- Operating Environments: Microsoft Windows 7 이상
- Developing Environments
 - ① 운영체제: windows 7, 10
 - ② CPU : Intel
 - ③ IDE : Eclipse
 - ④ 개발언어: JAVA
 - ⑤ UML 툴: StarUML



Thank You!

