Use Case: Simulation Platform for Smart Fridge and Sudoku Solver

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1 Purpose

This document provides use cases for the simulation platform for rottening fruits and Sudokus. The use cases are described either by words and a UML diagram.

2 Use Case

2.1 Specifications

Number	1		
Name	Creating SmartFridge image		
Description	A User goes through the dialogues to create an image		
	containing fruits of any rottening state.		
Priority	5		
Preconditions	Program was started		
Postconditions	None		
Primary Actor(s)	User		
Secondary Actor(s)	None		
Trigger	User chooses SmartFridge after program start.		
Main Scenario	Step	Action	
	1	Program shows start dialogue containing buttons for	
		choice between SmartFridge and Sudoku	
	2	User chooses SmartFridge	
	3	Program displays parameter selection with default val-	
		ues	
	4	User changes parameters at will	
	5	Program displays rendered image for given input pa-	
		rameters	
	6	User chooses whether to sort out or save image	
Extensions	Step	Branching Action	
	4.1	User insert number and sort of fruit.	
	4.2	Program shows preview of the scene to render	
Issues	How does the selection look like? Does the user click through multiple images or does he get only one image per generation?		

Number	2		
Name	Creating Sudoku image		
Description	A User goes through the dialogues to create an image		
	containing one Sudoku.		
Priority	4		
Preconditions	Program was started		
Postconditions	None		
Primary Actor(s)	User		
Secondary Actor(s)	None		
Trigger	User chooses Sudoku after program start.		
Main Scenario	Step	Action	
	1	Program shows start dialogue containing buttons for	
		choice between SmartFridge and Sudoku	
	2	User chooses Sudoku	
	3	Program displays parameter selection with default val-	
		ues	
	4	User changes parameters at will	
	5	Program displays rendered image for given input pa-	
		rameters	
	6	User chooses whether to sort out or save image	
Extensions	Step	Branching Action	
	4.1	Program shows preview of the scene to render.	
Issues	How does the selection look like? Does the user click		
	through multiple images or does he get only one image		
	per generation?		

Number	3		
Name	Add a fruit to the SmartFridge		
Description	A Developer goes through the dialogues to create an		
	image containing one Sudoku.		
Priority	2		
Preconditions	Developer has information and access to plugin interface		
Postconditions	Program is still executable		
Primary Actor(s)	Developer		
Secondary Actor(s)	None		
Trigger	None		
Main Scenario	Step	Action	
	1	Developer adds a blender compatible mesh for the new	
		fruit	
	2	Developer adds a colormap for the new fruit	
Extensions	Step	Branching Action	
	1.1	The developer has to apply the parameter types and	
		names for his mesh generating routine	
Issues	How does the selection look like? Does the user click		
	through multiple images or does he get only one image		
	per generation?		

2.2 UML diagram

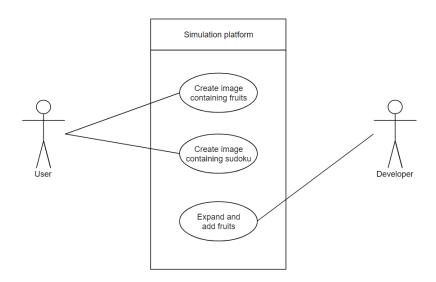


Figure 1: Use Case UML diagram