Vending Machine

Group 29

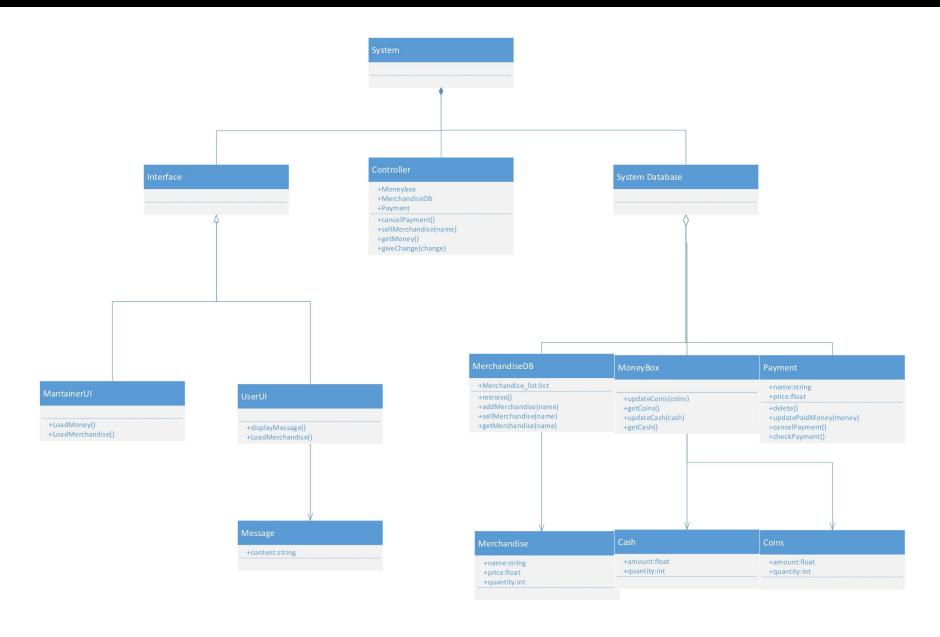
What we have done

Requirement

System Objective

• In this project, we are developing a software that simulates a normal and classical vending machine. The software will take care of the User Interface, ensure every merchandise can be sold correctly and the user can get correct change. Also, a manager will check all merchandise for its stock and the money box to ensure the machine's normal operation. A UPPAAL model will be provided to check whether the machine works correctly.

Domain Analysis



Domain Analysis

vending Machine merchandise coin cash sellmerchandise() givechange() receivemoney() showmerchandise()

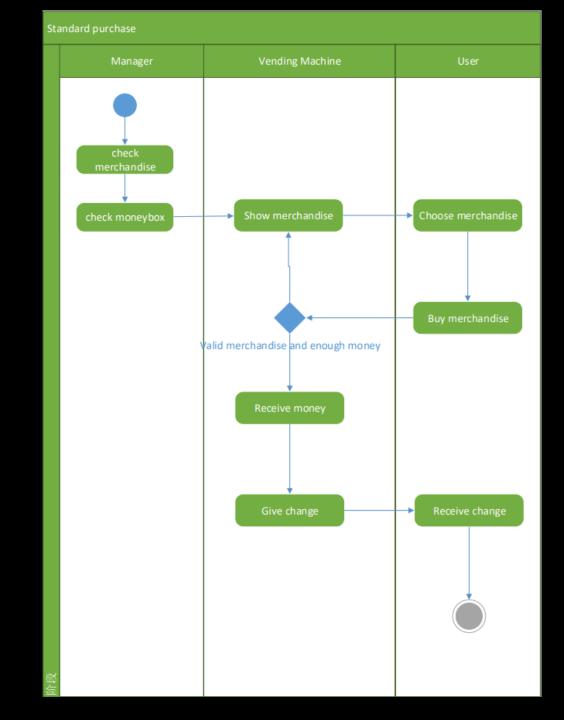




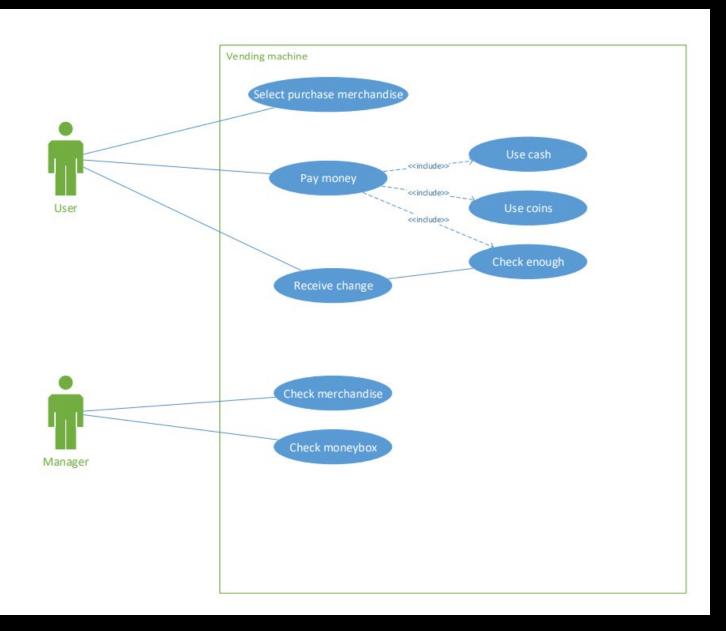
Domain Analysis

User			Vending Machine			Manager
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Domain Analysis



Use Case



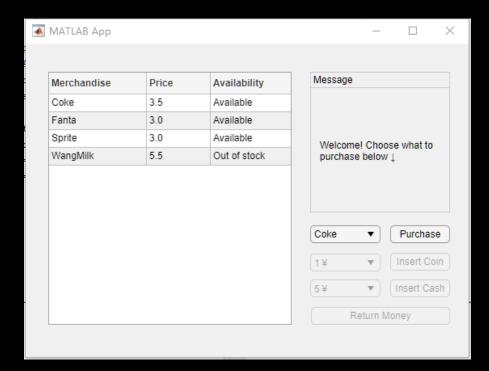
Software Requirements

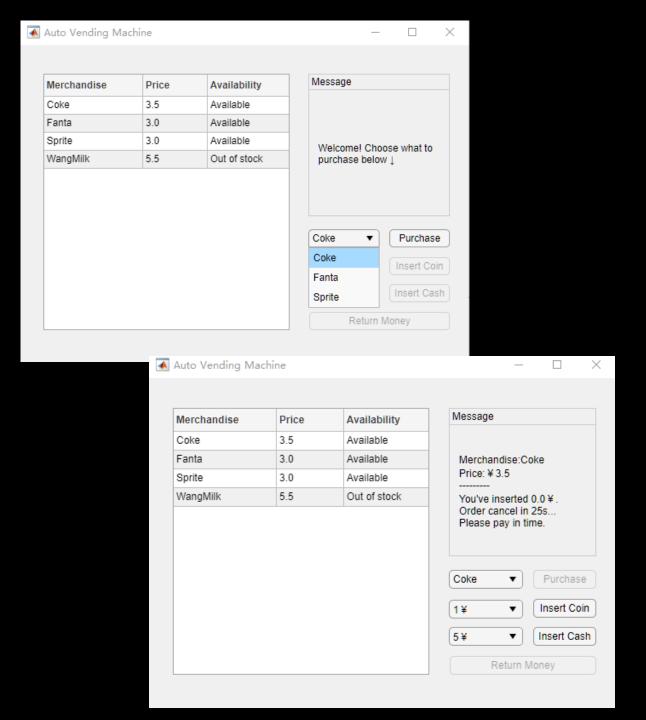
R1: User UI

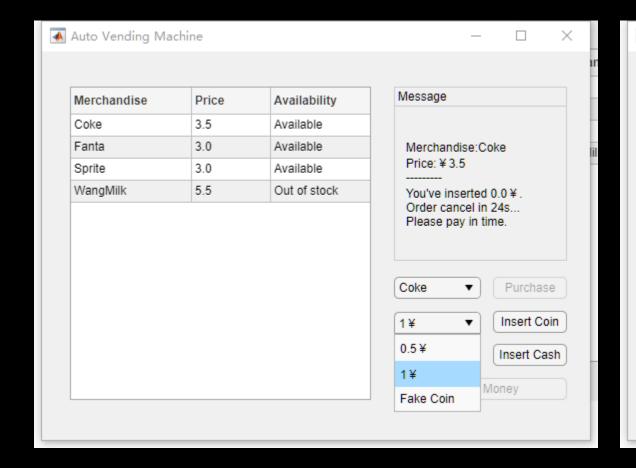
R2: Maintainer UI

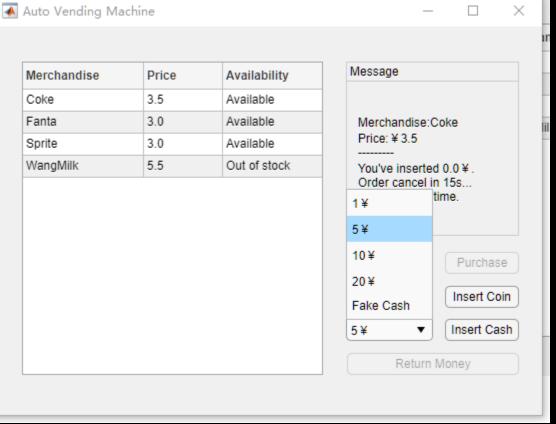
R3: Controller

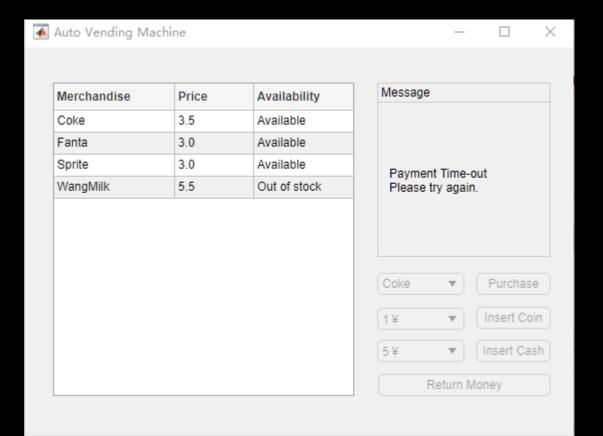
Development

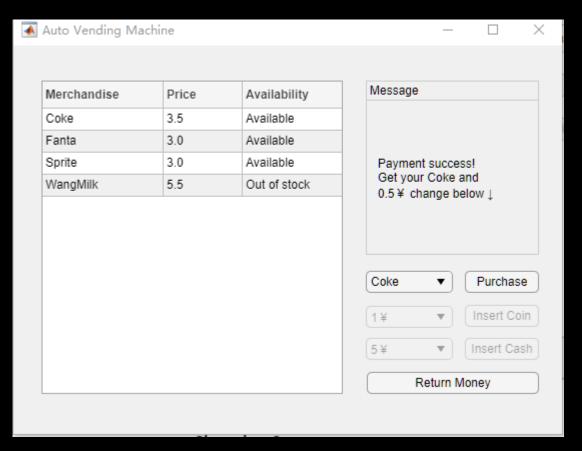


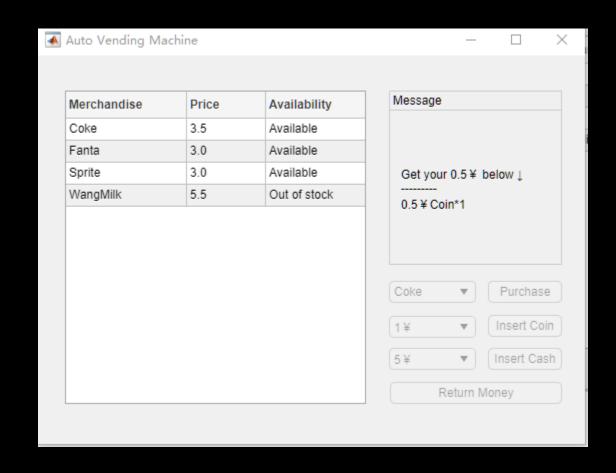






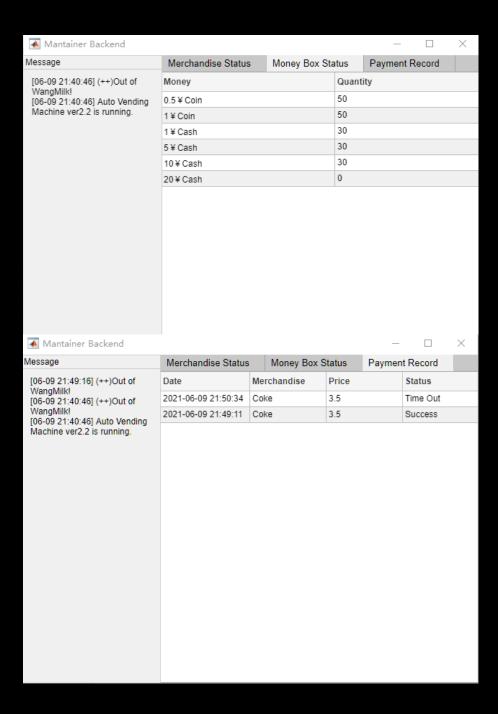




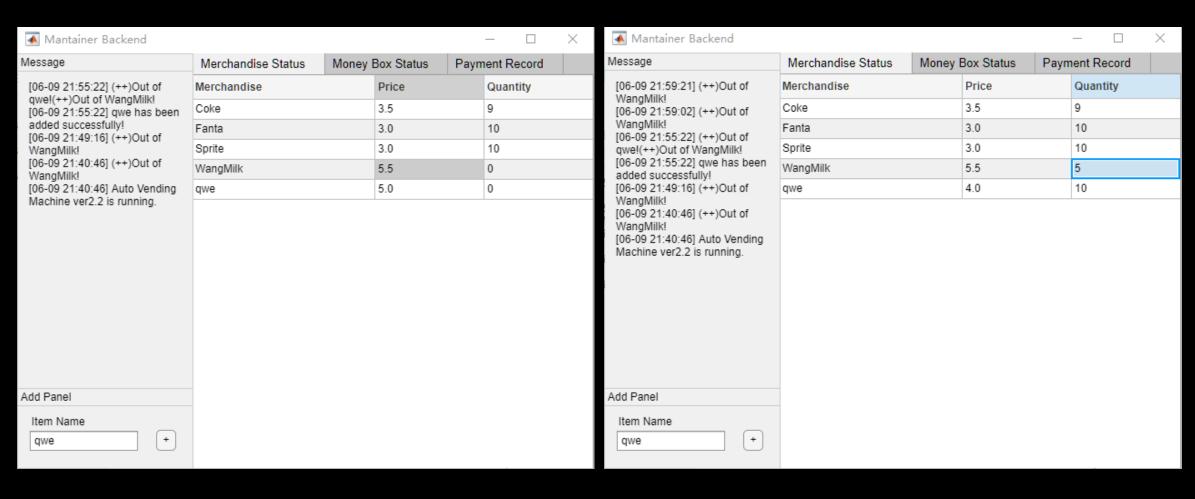


Maintainer UI

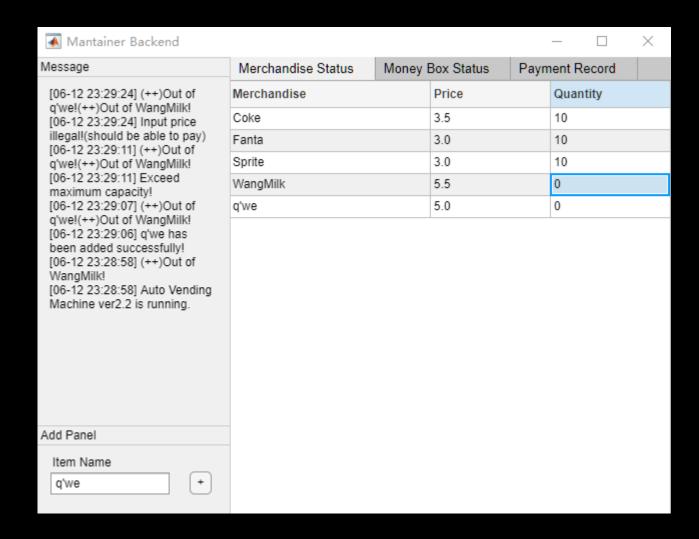
■ Mantainer Backend					_		\times
Message	Merchandise Status Money		Box Status	Paym	ent Re	cord	
[06-09 21:40:46] (++)Out of WangMilk! [06-09 21:40:46] Auto Vending Machine ver2.2 is running.	Merchandise	Price	Quantity				
	Coke	3.5	10				
	Fanta	3.0	10				
	Sprite	3.0	10				
	WangMilk	5.5	0				
Add Panel							
Item Name							



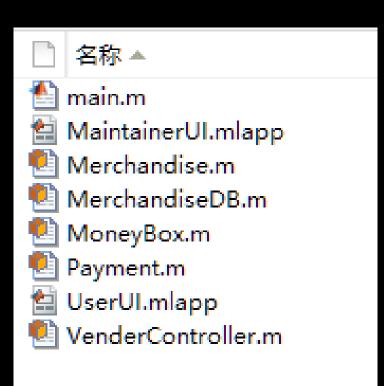
Maintainer UI



Maintainer UI



OOP



Vending Display

What we're going to do next