Object-Oriented Analysis and Design Project

Coffee shop

Submitted by

Mr.Chawit	Sommana	582115014
Mr.Thanarit	Lopetcharat	582115026
Mr.Phornthep	Chooleat	582115037
Mr.Pattaratorn	Sawaisorn	582115039

Present

Prof. Prompong Sugunnasil

953232 Object-Oriented Analysis and Design
College of Art Media and Technology
April 27, 2017

Introduction

Nowadays, Coffee Shop business is increasing popular in Thailand. Because the product in the Coffee Shop is suitable for any kind of the customer. And the Coffee Shop is the multi purposes place for the customer; for example the meeting, reading place, surfing the internet and etc.

So, all of this is the reason that we chose to do this project. For according to this course, so we want to create and design the management system by using the diagram for explain the step of management the Coffee Shop to convenience of the managing in Coffee Shop. Moreover, to practice the planning and design the management system to performance and can lead to utilization in real life in the future.

Target

Coffee Shop Owner of Coffee Shop Employee who would like to be an own Coffee Shop and need planning and design to manage the production of Coffee Shop. And for the convenience to production for sale in the Coffee Shop.

Benefits

- 1. For the convenience to production for sale in the Coffee Shop.
- 2. For performance to planning and design of management system store.
- 3. For analyzing the step of management system in Coffee Shop to efficiency.
- 4. To practice the planning and design the management system according to the course.
- 5. To understand how to use and design the diagram to explain the plan of management in the Coffee Shop.

Table Content

	Page
Introduction	I
Table Content	II
Overall Description	1
Specific Requirement	3
- Use Case Diagram	3
- Use case description	4
- Activity diagram	23
- Class diagram	39
- Class description	40
- Sequence diagram	54

Overall Description

In our management system of Coffee Shop. We have 3 main actors are Owner, Cashier and Barista. And everyone need to login to the system before use the system.

Owner part:

- 1. Can view summary to see the overall product that have been sold.
- 2. Can add new cashier to the system.
- 3. Can add new barista to the system.
- 4. Can delete cashier from system.
- 5. Can delete barista from system.
- 6. Add new product to the system.
- 7. Can delete product from system.

Cashier part:

- 1. Take order from customer and request to barista when customer want to order the goods.
- 2. Manage in the payment part when customer request cashier to pay a bill.
- 3. Manage in the print invoice part when customer request the invoice from cashier.
- 4. Can view the ordered list and status in the system.
- 5. Print the ordered id from the system to customer when barista has confirmed requesting order from user.
- 6. Can delete order from requesting order.

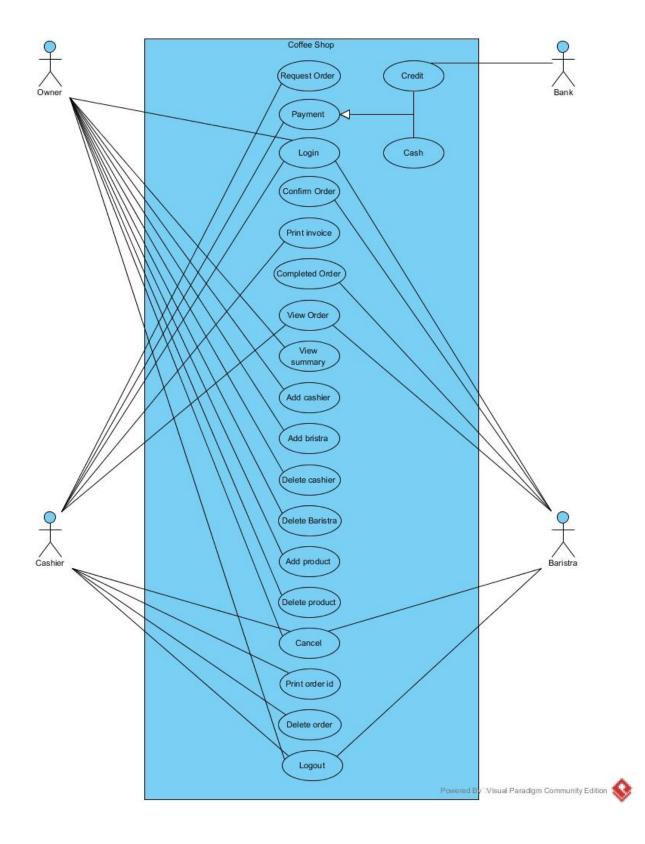
Barista part:

- 1. Manage in the confirm order part when customer requesting menu and then barista will confirm that can do or not.
- 2. Confirm that order is already finish.
- 3. Can view the ordered list and status in the system.

All the tasks, everyone can cancel the tasks that they are doing and back to main menu or finish the program.

Specific Requirement

Use Case Diagram



Use case description

US-001 Request Order

Use Case ID	US-001			
Use Case Name	Request order.			
Created By	Phornthep	Chooleat	Last Update By	Phornthep Chooleat
Date Created	22/04/201	7	Last Revision Date	24/04/2017
Actors	Cashier.			
Description	Cashier tal	ke order from custom	er and request to barista	•
Trigger		want to order the god		
Preconditions	User mush	to logged in the syste		
		Use Case Input	Specification	
Input	type		nstraint	Example
productId	String	-	f alphabetic and 2 digit	Sm01, Co04.
		of numerical.		
Post conditions	Send orde	r information to baris		
Normal Flows		User	Sy	rstem
	the user. 3. User click add order. 4. User input the order from customer to the system. 5. System check the 6. Change order sta			atus to requesting order. data to barista.
Alternative Flow	1. In activity 5 of Normal flow, if user input incorrect pattern of input system will provide "Wrong input please input it again." And back to activity 2 of Normal flow.			
Exception Flow	User press the cancel button.			
Assumption	1. User understand English.			
	2. User understand the customer order.			

US-002 Payment

Use Case ID	US-002				
Use Case Name	Payment				
Created By	Phornthe	p Chooleat	Last U	pdate By	Phornthep Chooleat
Date Created	22/04/20	17	Last Re	evision Date	25/04/2017
Actors	Cashier.		•		
Description	Customer	request cashier to pay	a bill.		
Trigger	User seled	ct Payment button.			
Preconditions	1. Us	ser mush logged in into t	the syste	em.	
	2. Cı	ustomer want to pay a b	ill.		
Use Case Input Specifi	cation				
Input	type	Constraint			Example
orderId	Int	Numerical of 3 digit.			001
amountOfMoney	double	Numerical more than digit. (Including faction	_		200.00
Post conditions	in	stem record the transacthe requesting order.	ction into	the database and	d delete order id
Normal Flows	User	<u> </u>	System		
	7. Us pa	ser select payment atton in the menu. ser in put order id to e system. ser select confirm ayment.	4. 5. 6.	System request of System check the received from use System show among the user. Provide confirm puser. System request to (credit, cash) from	e order id that er. ount of value to payment page to ype of payment
	11. Us m	ethod as cash. ser input amount of oney received from istomer.	12 13 14	. System request a from user. . System check the . System calculate . System show amo user. . System open the	e input. the change. ount of change to

	16. System provide receive money		
	page to user.		
	17. System ask the user to close the		
	money tray.		
	18.User select confirm.		
	19.System close the money tray.		
	20.System record the transaction to		
	the data base.		
	21.System provide print invoice		
	page to user.		
Alternative Flow	1. In the activity 4 of Normal flow, if user input wrong order id system		
	will provide "Wrong id or not have this id in the system" Message to		
	user and system back to the activity 2 in Normal flow.		
	2. In the activity 7 of Normal flow, if user do not confirm system will		
	provide the main menu page to user.		
	3. In the activity 12 of Normal flow, if user input incorrect input system		
	will provide "Wrong input please input it again." Message to user and		
	system back to the activity 10 in Normal flow.		
	4. In the activity 18 of Normal flow, if user do not confirm after 3-		
	minute system will provide "Automatically close money tray because		
	money tray had opened more than 3-minute." Message to user and		
	system ask user to login to open the money again.		
	5. In the activity 9 of Normal flow, if user select payment method as		
	credit system will provide credit payment to user.		
	5.1. System request credit card from user.		
	5.2. User input the credit card to credit card machine.		
	5.3. System Check the permission from the bank.		
	5.4. System subtract amount of bill in the credit card.		
	5.5. System print receipt to the user.		
	5.6. System do the activity 20 in the Normal flow.		
	6. In the activity 6.3. of Alternative flow, if the bank does not allow		
	system to do the payment system provide "Can't pay by credit card		
	please use another payment method." Message to user and back to		
	the activity 7 in the Normal flow.		
Exception Flow	User press the cancel button.		
Assumption	1. User understand English.		
	2. Cashier machine have change for user.		

US-003 Login

Use Case ID	US-003			
Use Case Name	Login			
Created By	Phornthep Chooleat Last Update By			Phornthep Chooleat
Date Created	23/04/201	.7	Last Revision Date	25/04/2017
Actors	Owner, Ca	shier and Barista.		
Description	Login to th	ne system to use the syste	em.	
Trigger	User click	login button.		
Preconditions		er want to use the system	۱.	
	2. Us	er have user id and passw	vord.	
		Use Case Input Spe	ecification	
Input	Туре	Constr	aint	Example
userId	String	Using of 3 character and	d 2 of numerical	Bar01, Cas01.
		without any symbols.		
userPass	String	Using both of alphabetic	c and numerical of 5	ase34, b23ed.
		character.		
Post conditions	1. Us	er logged in to the system	١.	
	2. Sys	stem provide main menu	page to user.	
Normal Flows		User	Sy	/stem
	 User select login button. System provide login page to user. User in put user id and password. System check the input. System check the data in the database. System provide main menu page t user. 			k the input. K the data in the
Alternative Flow	sys act 2. In the inp 3. In the date	 In the activity 4 of Normal flow, if the input is incorrect pattern of input system provide "Wrong input, please input it again." And back to the activity 2 of Normal flow. In the activity 5 of Normal flow, if the user id is not the same the data in the database system provide "Not have this user id in the database please input it again." And back to the activity 2 of Normal flow. In the activity 5 of Normal flow, if the user id is the same the data in the database but the password is not the same system provide "Incorrect password please input it again." And back to the activity 2 of Normal flow. 		
Exception Flow				
Assumption	1. User understand English.			
		er have user is and passw		
	3. Us	er want to use the system	1.	

US-004 Confirm order

Use Case ID	US-004			
Use Case Name	Confirm Order			
Created By	Phornthep Chooleat	Last Update By Phornthep Choole		
Date Created	23/04/2017	Last Revision Date	25/04/2017	
Actors	Barista.			
Description	Barista confirm that they can do the	requesting order.		
Trigger	System show the requesting order t system)	o user. (At least one r	equesting order in the	
Preconditions	System have requesting or	der from the cashier.		
	Barista select view reques	ting order.		
	3. User mush logged in into t	he system.		
	Use Case Input Spe	cification		
Post conditions	System send the confirmation to case	shier.		
Normal Flows	User	Sy	vstem .	
	 Select confirm order in requesting order. 			
	2. System change order status to doing order.			
	3. System send the confirmation data to cashier.			
Alternative Flow	1. In the activity 1 of Normal flow, if user select cancel order.			
	<u> </u>	to confirm cancel requ		
	1.2. User select confirm o	ancel request.		
	1.3. System delete that requesting order in requesting order list.			
	1.4. System send the data to cashier.			
	1.5. System provide requesting order page to user.			
	2. In the activity 1.2. of alternative flow, if user select cancel to cancel			
	request.			
	2.1. System provide requesting order to the user.			
Exception Flow	User press the cancel button.			
Assumption	1. There is at least one requesting order in the system.			
	2. User understand English.			

US-005 Print invoice

Use Case ID	US-005			
Use Case Name	Print invoice			
Created By	Phornthep (Chooleat	Last Update By	Phornthep Chooleat
Date Created	25/04/2017		Last Revision Date	25/04/2017
Actors	Cashier.			
Description	User print th	ne invoice from the syste	em to customer.	
Trigger	1. Cust	omer request the invoic	ce from user.	
	2. User	select print invoice.		
Preconditions		need to do the paymen		
	2. User	mush logged in into the	e system.	
	3. Payn	nent method have succe	essful.	
	1	Use Case Input Spe		
Input	type	Const	traint	Example
orderId	int	Numerical of 3 digit.		003
Post conditions	System prin	t the invoice for user.	T	
Normal Flows		User	Sy	stem
	 User select print invoice. System provide print invoice pages user. 			de print invoice page to
	 User input order id. System check input from user. System ask to confirm print invoice. User select confirm. System print invoice to user. System provide main menu page to user. 			
Alternative Flow	 In activity 4 of Normal flow, if user input incorrect input system will provide "Wrong input please input again." And back to the activity 2 of Normal flow. In activity 6 of Normal flow, if user do not select confirm print invoice system will provide main menu page to user. 			
Exception Flow	User press the cancel button.			
Assumption	1. User	understand English.		
	2. Customer want the invoice.			
	3. There is the invoice paper in the cashier machine.			

US-006 Complete Order

Use Case ID	US-006				
Use Case Name	Complete order				
Created By	Phornthep Chooleat	Last Update By	Phornthep Chooleat		
Date Created	25/04/2017	Last Revision Date	27/04/2017		
Actors	Barista.				
Description	Barista confirm that order is already	r finish.			
Trigger	User want to confirm the preparing	order have finish.			
Preconditions	1. User click view order.				
	2. User click complete product				
	3. User mush logged in into th				
	Use Case Input Spe	cification			
Post conditions	System send to data to cashier.	<u> </u>			
Normal Flows	User	System			
	User select complete				
	order.				
		2. System ask the confirmation from			
	_	user.			
	3. User select confirm.				
		System change order status to completed.			
		· ·	nd data to cashier		
		6. System provide main menu page			
	to user.				
Alternative Flow	In activity 3 of Normal flow, if user do not select confirm system will				
	provide view order page to user.				
Exception Flow	User press the cancel button.				
Assumption	1. User understand English.				
	2. Order have finished.				
	3. There is one of finish order.				

US-007 View Order

Use Case ID	US-007			
Use Case Name	View order			
Created By	Phornthep Chooleat	Last Update By	Phornthep Chooleat	
Date Created	25/04/2017	Last Revision Date	27/04/2017	
Actors	Barista, Cashier.			
Description	To see the ordered list and status in	the system.		
Trigger	User click on view order button.			
Preconditions	 User click view order. 			
	2. User mush logged in into the	e system.		
	Use Case Input Spe	cification		
Post conditions	System show the ordered list in the	system.		
Normal Flows	User	Sy	vstem vstem	
	1. User select view order			
		2. System provi	de view order page to	
	user.			
Alternative Flow	-			
Exception Flow	User press the cancel button.			
Assumption	1. User understand English.			
	2. User want to see ordered list in the system.			

US-008 View Summary

Use Case ID	US-008				
Use Case Name	View Summary				
Created By	Phornthep Chooleat	Last Update By	Phornthep Chooleat		
Date Created	25/04/2017	Last Revision Date	27/04/2017		
Actors	Owner.				
Description	To see the overall product that have	e been sold.			
Trigger	User click on view summary button.				
Preconditions	 User click view summary. 				
	2. User mush logged in into the	e system.			
	Use Case Input Spe	cification			
Post conditions	System show the overall sold produ	System show the overall sold product in the system.			
Normal Flows	User	Sy	/stem		
	 User select view summary. 				
		2. System provi	de view summary page		
	to user.				
Alternative Flow	-				
Exception Flow	User press the cancel button.				
Assumption	1. User understand English.				
	2. User want to see overall solo	l product in the syster	n.		

US-009 Add Cashier

Use Case ID	US-009				
Use Case Name	Add cashier		,		
Created By	Phornthep Chooleat		Last Update By	Phornthep Chooleat	
Date Created	25/04/2017		Last Revision Date	27/04/2017	
Actors	Owner.				
Description	Add new cash	ier to the system.			
Trigger	User click on a	Add cashier button.			
Preconditions	User mush log	gin to the system.			
		Use Case Input Spe	cification		
Input	type	Cons	traint	Example	
userName	String	Using alphabetic more t	han 1 character but less	Phornthep	
		than 255 character with	out symbols.		
userTel	String	Using of numerical of 10) digit.	0954511818	
Post conditions	1. Syste	m add new user into the s	system.		
	2. Syste	m provide user id and use	er password to user.		
Normal Flows		User	Sys	stem	
	1. User	select add cashier.			
			2. System provide	add cashier page to user	
	3. User	input user name			
	4. User	input user telephone			
	numb	er.			
			5. System check in		
			6. System ask to c	confirm add cashier.	
	7. User s	elect confirm.			
				te user id and user	
			password.	1	
			9. System keep	user data in the	
			database.	da waan id and waan	
			password to	de user id and user	
				ser to print the user id	
	12 Usor	select print user id and	•	•	
	passw	•	d and password.		
	passw	voru.			
			13 System provide	main menu page to	
			user.	man mena page to	
Alternative Flow	1. In act	:ivity 4 of Normal flow, if u		system will provide	
		· · · · · · · · · · · · · · · · · · ·		· · ·	
		"Wrong input please input again." And back to the activity 2 of Normal flow. In activity 6 of Normal flow, if user do not select confirm system will provide			
		main menu page to user.			
		3. In activity 11 of Normal flow, if user do not select confirm print user id and			
	password system will provide main menu page to user.				
Exception Flow	User press the cancel button.				
Assumption	1. User understand English.				
•		want to add new cashier t	to the system.		
	1		·		

US-010 Add Barista

Use Case ID	US-010				
Use Case Name	Add Barista				
Created By	Phornthep Chooleat		Last Update By	Phornthep Chooleat	
Date Created	25/04/2017		Last Revision Date	27/04/2017	
Actors	Owner.				
Description	Add new barista to	the system.			
Trigger	3. User click o	n Add barista butto	n.		
Preconditions	7. User mus	sh login to the syste	m.		
		Use Case Input Spe	cification		
Input	type	Const	traint	Example	
userName		g alphabetic more t 255 character with	han 1 character but less out symbols.	Paisan	
userTel		g of numerical of 10	•	0899993757	
Post conditions		new user into the s			
			er password to user.		
Normal Flows				stem	
	3. User input4. User inputnumber.7. User select	5. System check input from us 6. System ask to confirm add ker select confirm. 8. System generate user id and password. 9. System keep user data in the 10. System provide user id and password to user. 11. System ask user to print the password. 12. System ask user to print the password.		nput from user. confirm add barista. te user id and user ser data in the database. e user id and user	
Alternative Flow	"Wrong inp 2. In activity 6	user. ctivity 4 of Normal flow, if user input incorrect input system will provide ong input please input again." And back to the activity 2 of Normal flow. ctivity 6 of Normal flow, if user do not select confirm system will provide in menu page to user. ctivity 11 of Normal flow, if user do not select print user id and password em will provide main menu page to user.			
	3. In activity 1	1 of Normal flow, if		user id and password	
Exception Flow	3. In activity 1	1 of Normal flow, if provide main menu		user id and password	

US-011 Add Product

Use Case ID	US-010			
Use Case Name	Add Product			
Created By	Phornthep Chooleat		Last Update By	Phornthep Chooleat
Date Created	25/04/2017		Last Revision Date	27/04/2017
Actors	Owner.			
Description		duct to the system.		
Trigger	User click on	Add barista button.		
Preconditions	User mush lo	gin to the system.		
		Use Case Input Spe		
Input	type	Const		Example
productName	String	Using alphabetic more t than 255 character with		Мосса
productPrice	double	Using of numerical of 5 number.	5 digit including faction	130.00
Post conditions	System add n	ew product into the syste	m.	
Normal Flows		User	Sys	stem
	3. User input product name. 4. User input product price. 5. System che 6. System ask 7. User select confirm. 8. System gen 9. System kee database. 10. System pro		user 5. System check in 6. System ask to co 8. System generat 9. System keep prodatabase.	onfirm add product. e product id.
Alternative Flow	 In activity 4 of Normal flow, if user input incorrect input system will provide "Wrong input please input again." And back to the activity 2 of Normal flow. In activity 6 of Normal flow, if user do not select confirm system will provide main menu page to user. User press the cancel button. 			
Exception Flow		e cancer button. understand English.		
Assumption		-	to the system	
	2. User want to add new cashier to the system.			

US-012 Delete Cashier

Use Case ID	US-012				
Use Case Name	Delete Cashier				
Created By	Phornthep C	hooleat	Last Update By	Phornthep Chooleat	
Date Created	25/04/2017		Last Revision Date	27/04/2017	
Actors	Owner.				
Description	Owner can d	lelete cashier from syst	em		
Trigger	User select o	delete cashier.			
Preconditions	1. User n	nush login into the syste	em.		
	2. There	is at least one user data	a in the system.		
		Use Case Input Spe	cification		
Input	type	Cons		Example	
userId	String	Using of 3 character a	nd 2 of numerical	Bar01, Cas01.	
		without any symbols.			
Post conditions	System delet	te user data from the sy	ystem.		
Normal Flows		User	Sy	stem	
	1. User se	elect delete cashier.			
	2. System provide delete cashier p			e delete cashier page to	
		user.			
	3. User input user id that want				
	to delete to the system.				
		4. System check input from user.			
	6 11	5. System ask to confirm delete user.			
	6. User s	elect confirm.	7 Custom delete		
		7. System delete user data of user id that received from user in the database			
			8. System provide main menu page to user.		
Alternative Flow	1 In acti	vity 4 of Normal flow if		put system will provide	
Alternative How		input please input agair	•		
	_			•	
		2. In activity 4 of Normal flow, if user input is not in the database system will provide "Not have this user in the data base please input again." And back to			
	·	the activity 2 of Normal flow.			
		vity 6 of Normal flow, if	user do not select con	firm delete system will	
		main menu page to use		,	
Exception Flow		ne cancel button.			
•	1. User understand English.				
Assumption					
l Assumption	2. There is at least one user data in the database.				

US-013 Delete Barista

Use Case ID	US-013				
Use Case Name	Delete Barista				
Created By	Phornthep Chooleat		Last Update By	Phornthep Chooleat	
Date Created	25/04/2017		Last Revision Date	27/04/2017	
Actors	Owner.				
Description	Owner can d	elete barista from syste	em		
Trigger	User select c	lelete barista.			
Preconditions	1. User m	nush login into the syste	em.		
	2. There	is at least one user data	in the system.		
	,	Use Case Input Spe	cification		
Input	type	Const	traint	Example	
userId	String	Using of 3 character a	nd 2 of numerical	Bar01, Cas01.	
		without any symbols.			
Post conditions	System delet	ce user data from the sy	rstem.		
Normal Flows		User	Sy	stem	
	1. User s	elect delete barista.			
			2. System provide delete barista page to		
		user.			
	3. User input user id that want				
	to delete to the system.				
		4. System check input from user.			
	5. System ask to confirm delete user.				
	6. User select confirm.			usar data of usar id	
		7. System delete user data of user id that received from user in the database.			
			8. System provide main menu page to		
Alternative Flow	user. 1. In activity 4 of Normal flow, if user input incorrect input system will provide				
, iterriacive riow		nput please input agair	•	· · ·	
	_			·	
	2. In activity 4 of Normal flow, if user input is not in the database system will provide "Not have this user in the data base please input again." And back to				
	the activity 2 of Normal flow.			J	
		vity 6 of Normal flow, if	user do not select con	firm delete system will	
		main menu page to use		•	
Exception Flow	User press th	ne cancel button.			
Assumption	1. User u	nderstand English.			
	2. There	is at least one user data	in the database.		

US-014 Delete Product

Use Case ID	US-014			
Use Case Name	Delete Product			
Created By	Phornthep Chooleat		Last Update By	Phornthep Chooleat
Date Created	26/04/2017		Last Revision Date	26/04/2017
Actors	Owner.			
Description	Owner can d	elete product from sys	tem	
Trigger	User select c	lelete product.		
Preconditions	1. User	mush login into the sy	stem.	
	2. Ther	re is at least one produc	ct data in the system.	
		Use Case Input Spe	cification	
Input	type	Cons	traint	Example
productId	String	_	alphabetic and 2 digit	Sm01, Co04.
		of numerical.		
Post conditions	System delet	e product from the sys	tem.	
Normal Flows		User	Sys	stem
	1. User s	elect delete product.		
	2. System provide delete product		delete product page	
		to user.		
	3. User input user id that want			
	to delete to the system.			
		4. System check input from user.		
	6 11	l l C	5. System ask to c	onfirm delete user.
	6. User s	elect confirm.	7 C	
			id that received from	product data of product
	8. System provide main menu page to user.			main menu page to
Alternative Flow	1. In activ	vity 4 of Normal flow, if	user input incorrect in	put system will provide
		nput please input agair		
	2. In activ	vity 4 of Normal flow, if	user input is not in the	e database system will
	provide "Not have this product in the data base please input again." And back			
	to the activity 2 of Normal flow.			
	3. In activ	vity 6 of Normal flow, if	user do not select con	firm delete system will
	provide r	main menu page to use	r.	
Exception Flow	User press th	ne cancel button.		
Assumption	1. User understand English.			
	2. There	is at least one product	data in the database.	

US-015 Delete Order

Use Case ID	US-015			
Use Case Name	Delete Order			
Created By	Phornthep Chooleat		Last Update By	Phornthep Chooleat
Date Created	26/04/2017		Last Revision Date	26/04/2017
Actors	Cashier.			
Description	Cashier can	delete order from reque	esting order	
Trigger	User select o	delete product.		
Preconditions	1. Use	r mush login into the sy	stem.	
	2. Thei	re is at least one reques	ting order in the syste	m.
	1	Use Case Input Spe	cification	
Input	type	Const	traint	Example
orderId	int	Numerical of 3 digit.		001
Post conditions	System delet	te order in requesting o	rder.	
Normal Flows		User	Sy	stem
	4. User want syste	input order id that to delete to the em.	user. 3. System provide to user 5. System check 6. System ask to 8. System delete that received database.	de delete order page to de requesting order list input from user. confirm delete order. e order data of order id from user in the de main menu page to
Alternative Flow	 In activity 5 of Normal flow, if user input incorrect input system will provide "Wrong input please input again." And back to the activity 2 of Normal flow. In activity 5 of Normal flow, if user input is not in the database system will provide "Not have this product in the data base please input again." And back to the activity 2 of Normal flow. In activity 7 of Normal flow, if user do not select confirm delete system will provide main menu page to user. 			
Exception Flow	•	ne cancel button.		
Assumption	1. User understand English.			
	2. There	is at least one requesting	ng order in the databas	se.

US-016 Print Order ID

Use Case ID	US-016			
Use Case Name	Print Order Id			
Created By	Phornthep Chooleat Last Update By Phornthep Chooleat			
Date Created	26/04/2017	Last Revision Date	26/04/2017	
Actors	Cashier.			
Description	User print the ordered id from the s	ystem to customer.		
Trigger	User select print order id.			
Preconditions	1. User mush logged in into th	e system.		
	2. Barista has confirmed reque	esting order from user		
	Use Case Input Spe			
Post conditions	System print the ordered id for user	•		
Normal Flows	User	Sy	rstem	
	1. System provide confirmed order id			
	to user.			
	2. User select print order id.			
	3. System print the order id for user.			
	4. System provide main menu page to			
	the user.			
Alternative Flow	1. In activity 2 of Normal flow, if user do not select confirm print order id.			
	1.1. System ask user to confirm to cancel print order id.			
	1.2. User confirm to cancel print order id.			
	1.3. System provide main menu page to user.			
	2. In activity 1.2. of Alternative flow, if user not confirm to cancel print			
	order id system will bake to the activity 1 of the Normal flow.			
Exception Flow	User press the cancel button.			
Assumption	1. User understand English.			
	2. Customer ordered the product.			
	3. Barista confirm requesting order.			

US-017 Cancel

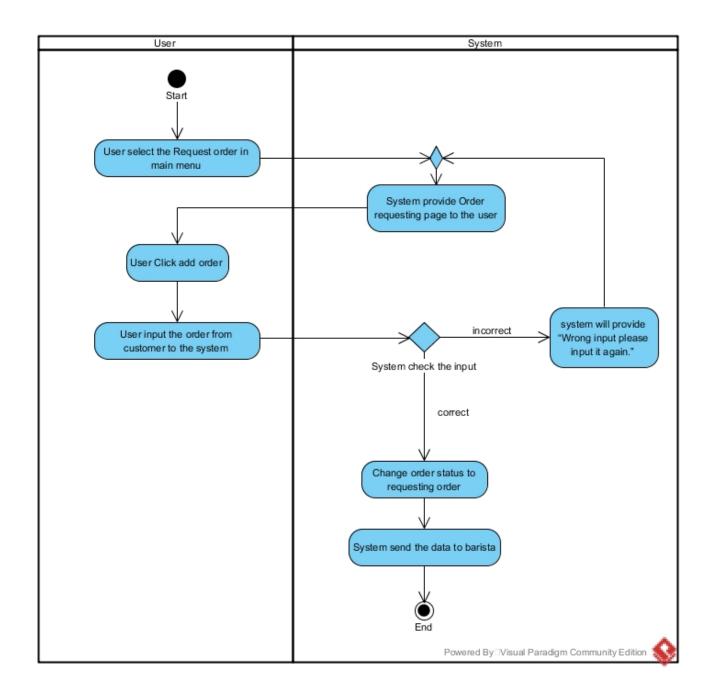
Use Case ID	US-017			
Use Case Name	Cancel			
Created By	Phornthep Chooleat	Last Update By	Phornthep Chooleat	
Date Created	26/04/2017	Last Revision Date	26/04/2017	
Actors	Cashier, Barista, Owner.			
Description	User can cancel what they are doing	g and back to main me	enu.	
Trigger	User click on cancel button.			
Preconditions	User mush logged in into the system	٦.		
	Use Case Input Spe	cification		
Post conditions	System provide main menu page to user.			
Normal Flows	User	User System		
	 User click cancel button. 			
	2. System ask user to confirm the			
		cancel.		
	3. User select confirm cancel.	I.		
		4. System provide main menu page to		
		user.		
Alternative Flow	1. In activity 3 of Normal flow, if user do not select confirm cancel system			
	will continue current process.			
Exception Flow	-			
Assumption	1. User understand English.			
	2. Customer want cancel the pro	ocess.		

US-018 Logout

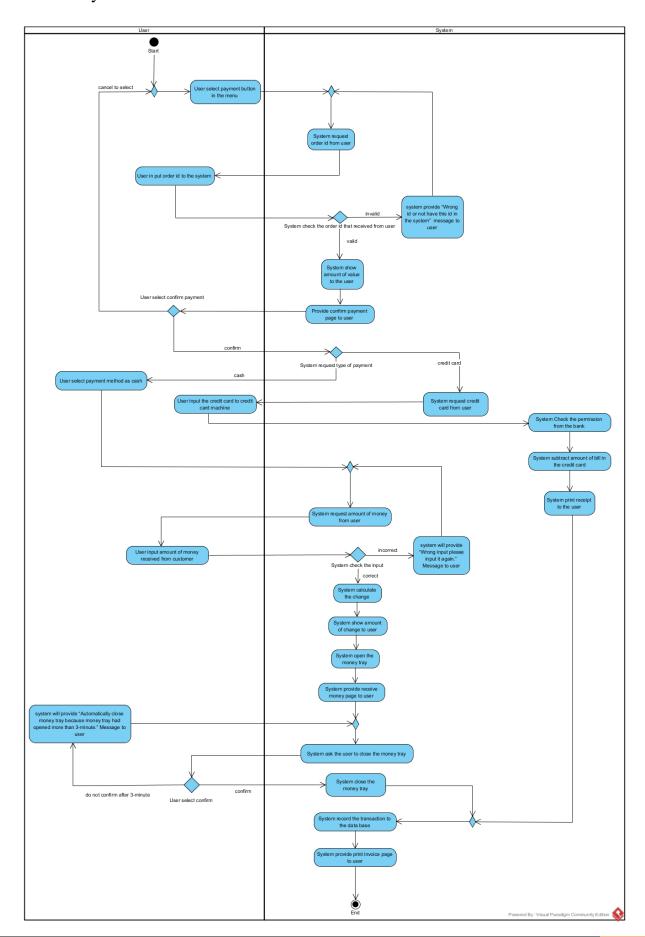
Use Case ID	US-018			
Use Case Name	Logout			
Created By	Phornthep Chooleat	Last Update By	Phornthep Chooleat	
Date Created	26/04/2017	Last Revision Date	26/01/2017	
Actors	Barista, Cashier, Owner.			
Description	To logout from the system.			
Trigger	User click on view order button.			
Preconditions	1. User click logout.			
	2. User mush logged in into the system.			
	Use Case Input Specification			
Post conditions	User logged out from the system.			
Normal Flows	User	Sy	vstem vstem	
	1. User select logout.			
		2. System get use	er out from the system.	
Alternative Flow	-	·		
Exception Flow	User press the cancel button.			
Assumption	1. User understand English.			
	2. User want to logout.			

Activity Diagram

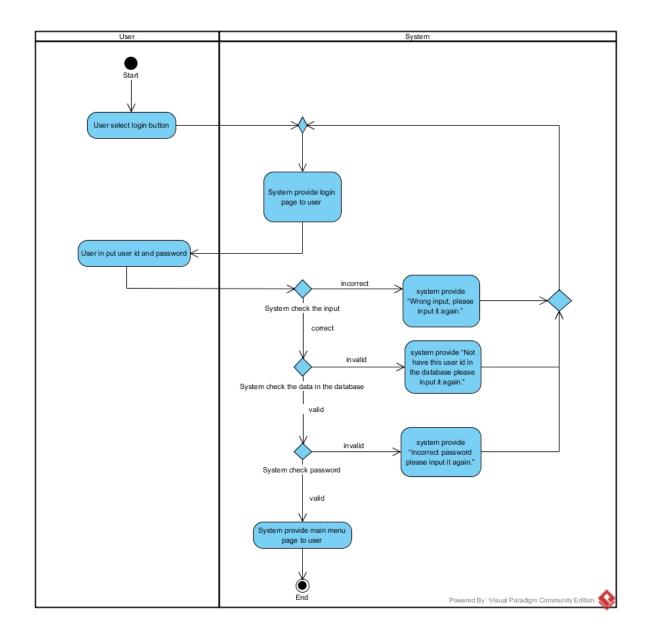
AD-001 Request Order



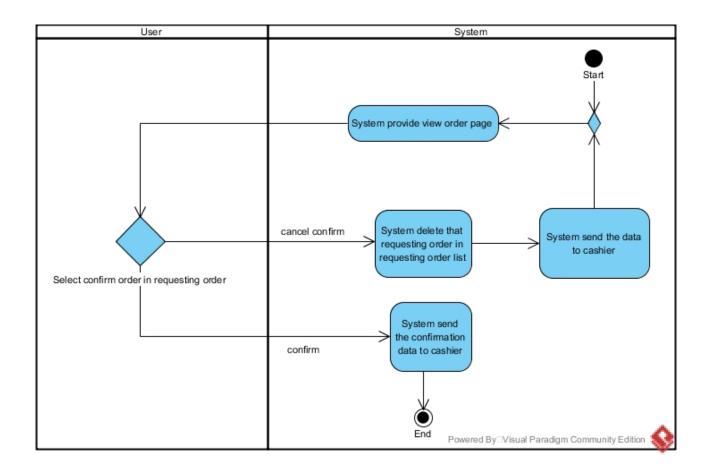
AD-002 Payment



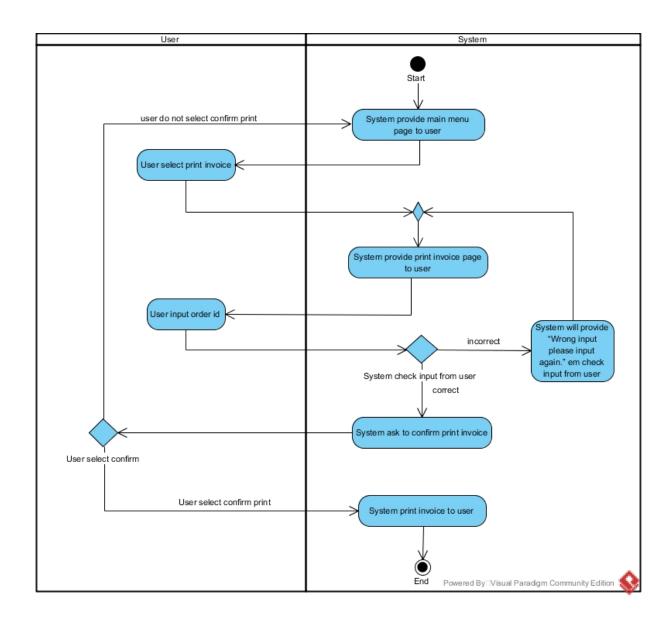
AD-003 Login



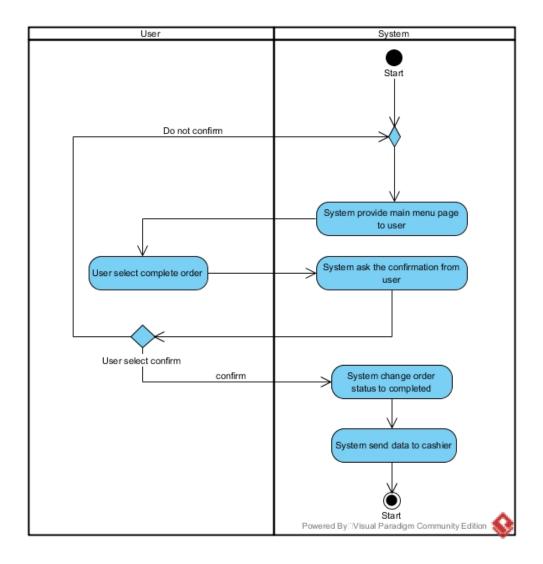
AD-004 Confirm order



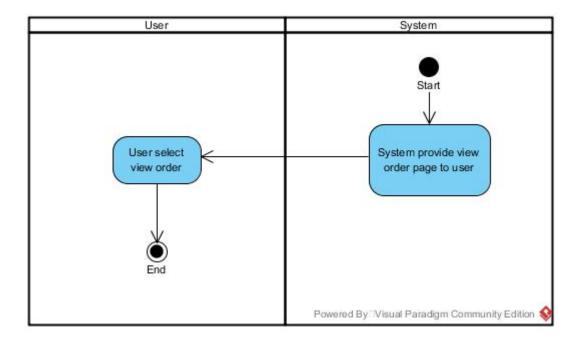
AD-005 Print invoice



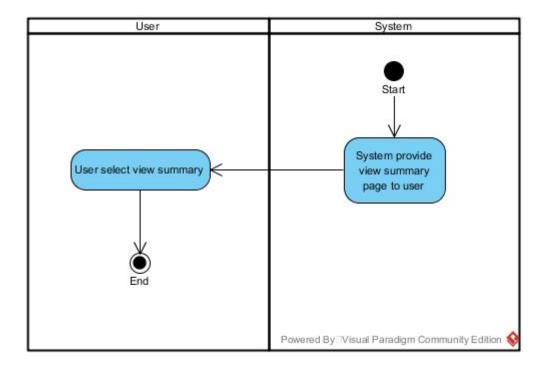
AD-006 Complete Order



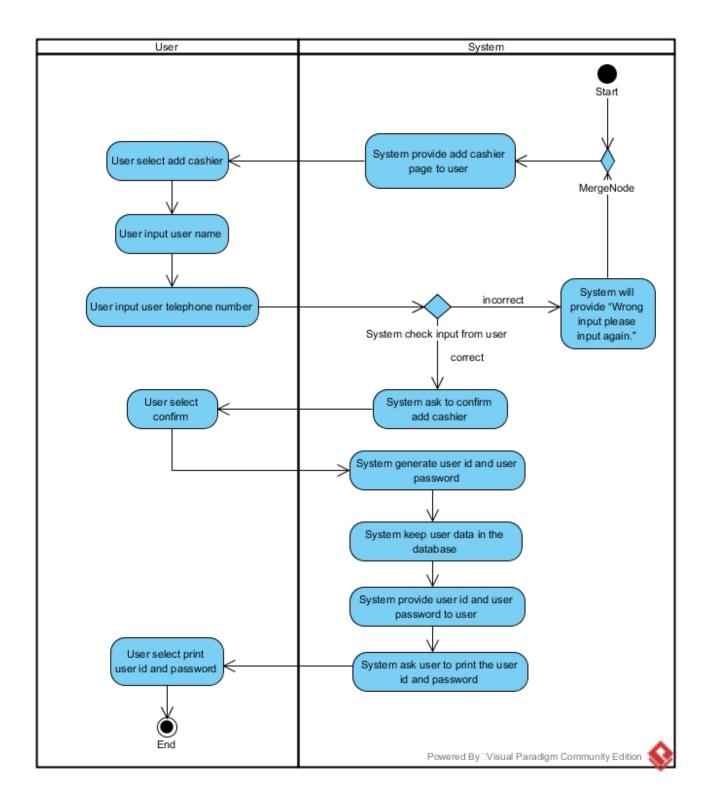
AD-007 View Order



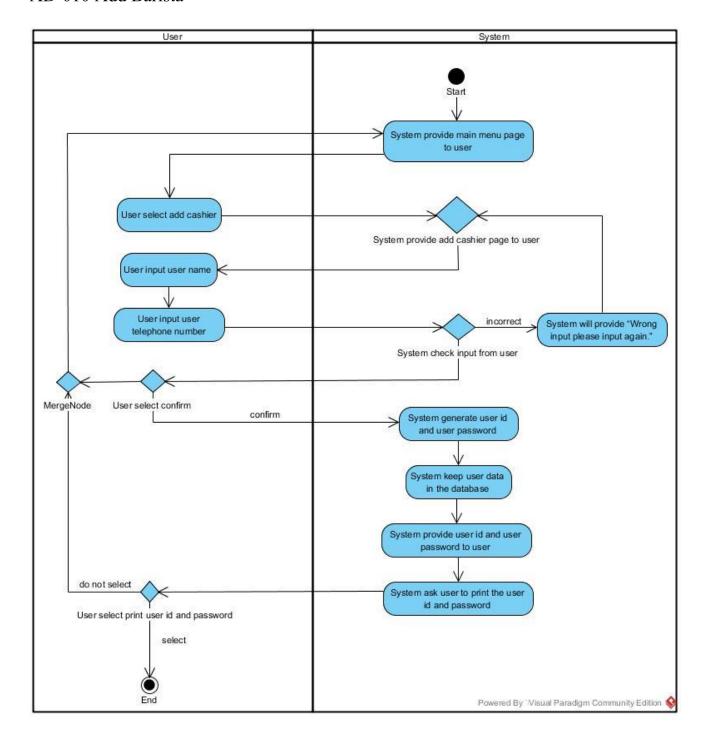
AD-008 View Summary



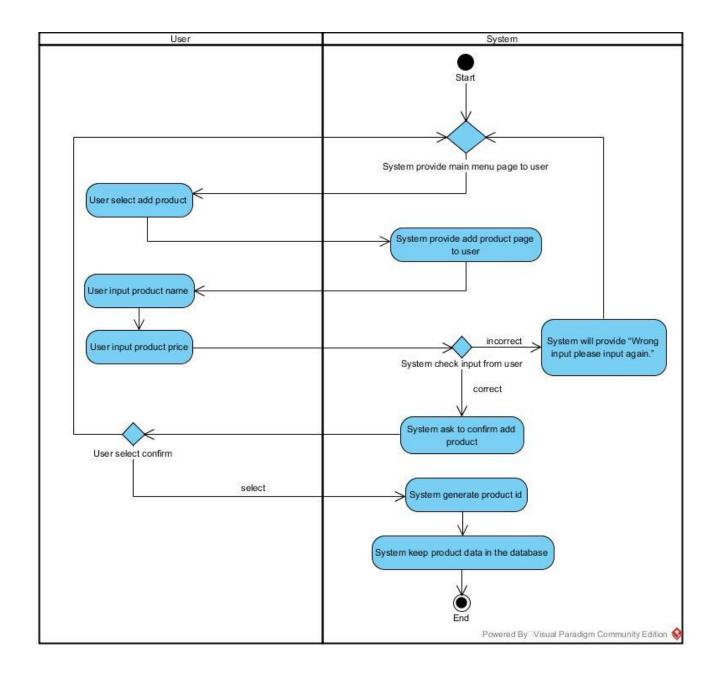
AD-009 Add Cashier



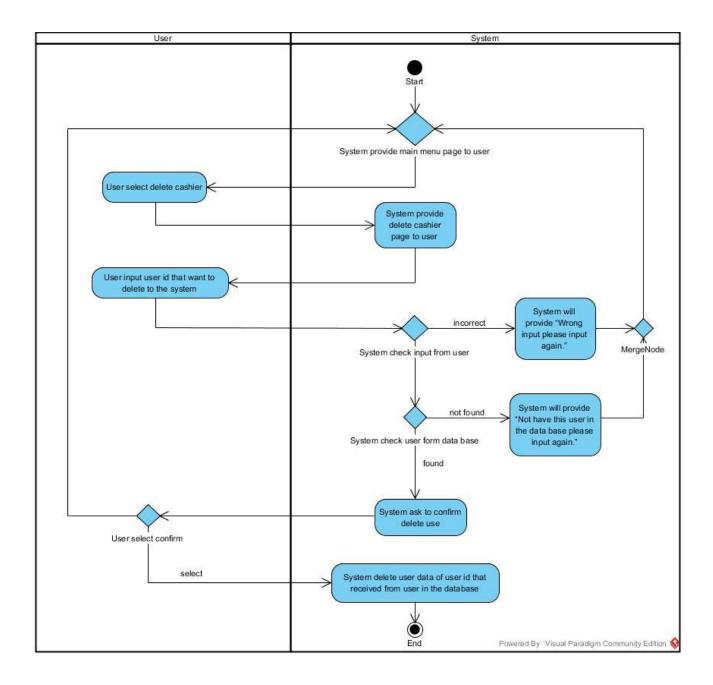
AD-010 Add Barista



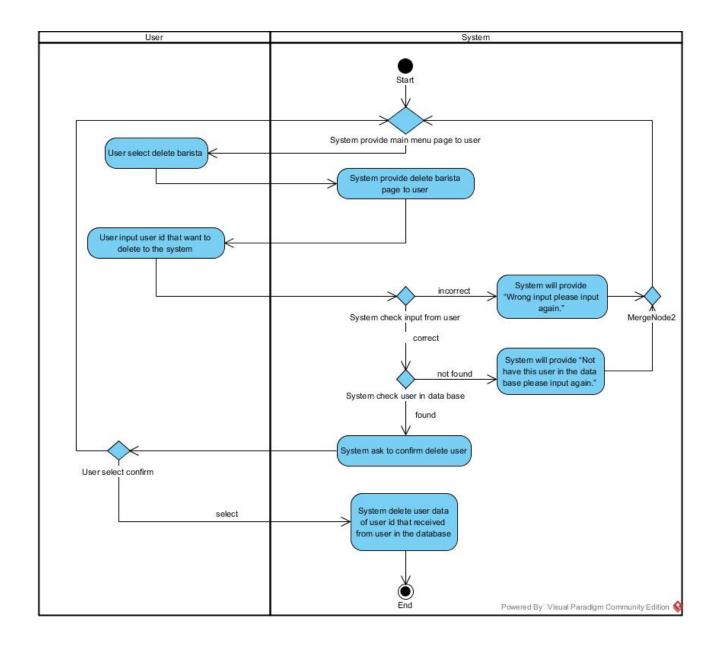
AD-011 Add Product



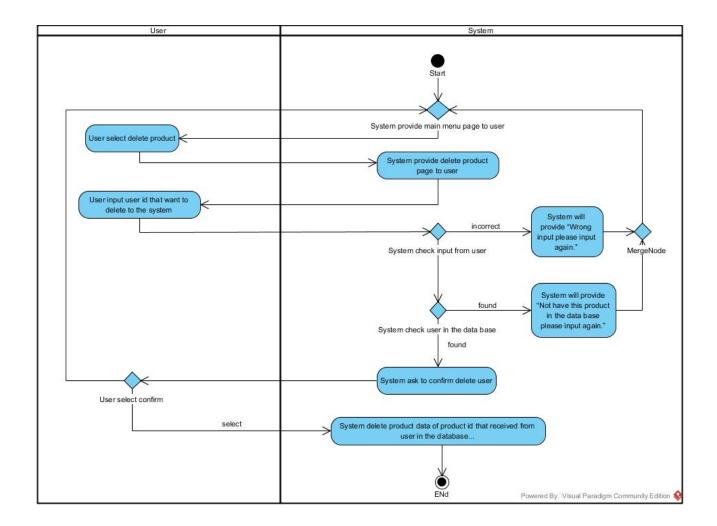
AD-012 Delete Cashier



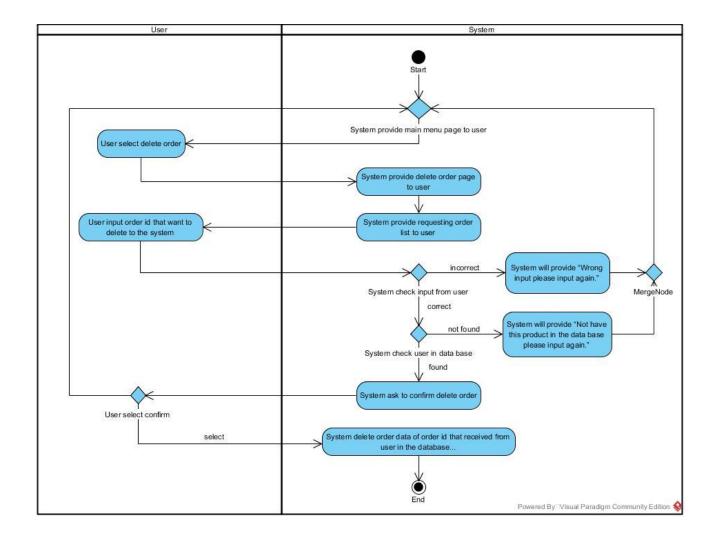
AD-013 Delete Barista



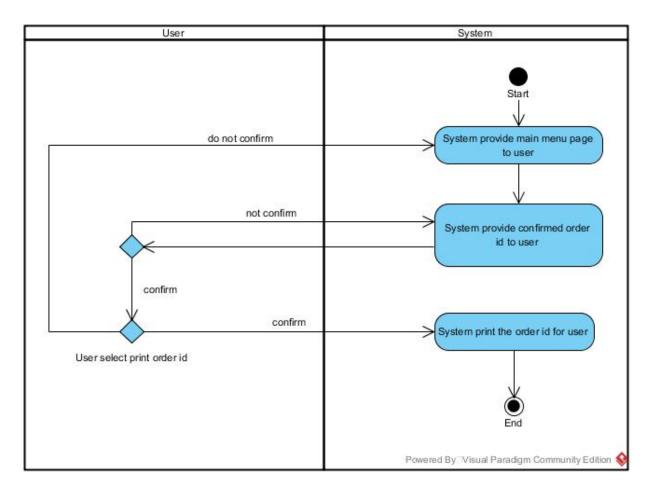
AD-014 Delete Product



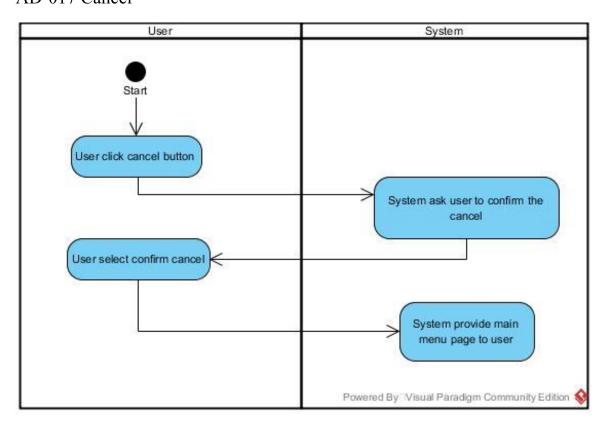
AD-015 Delete Order



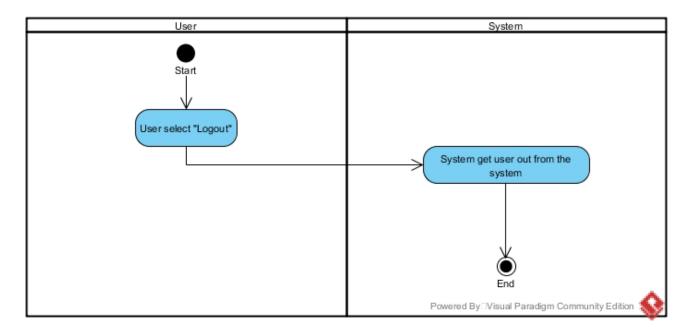
AD-016 Print Order ID



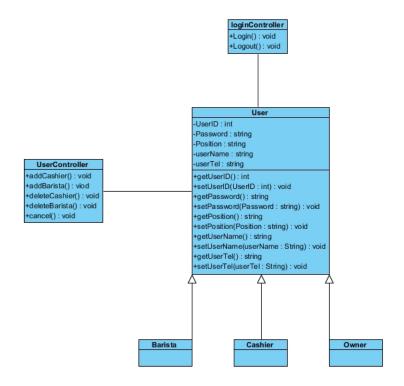
AD-017 Cancel

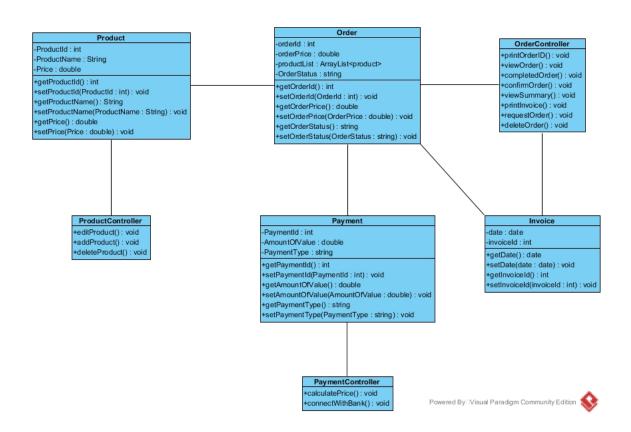


AD-018 Logout



Class Diagram





Class Description

- CD-01: User

User -UserID: int -Password : string -Position: string -userName : string -userTel: string +getUserID(): int +setUserID(UserID : int) : void +getPassword(): string +setPassword(Password : string) : void +getPosition(): string +setPosition(Position: string): void +getUserName(): string +setUserName(userName : String) : void +getUserTel(): string +setUserTel(userTel: String): void

Entities

ID	Name	Description	Туре
1.	UserID	User in System Id number.	int
2.	Password	Password User in System	string
3.	Position	Position in system such as	string
		,Cashier and Barista	
4.	userName	Username in System	string
5.	userTel	Telephone number of user	string

Method Detail

Method Name: getUserID():int
Description: Get value of UserID

Return : UserID Value

Method Name: setUserID(UserID:int):void

Description : Set a value of UserID

Return : UserID Value

Method Name: getUPassword():string
Description: get value of password

Return : Password Value

Method Name: setUPassword(UPassword:string):void

Description : set value of password

Return : Password Value

Method Name: getPostition ():string
Description: Get value of Position

Return : Postition

Method Name: setPostion(Postition:string):void

Description : Set a value of Position

Return : Position

Method Name: getUserName ():string
Description: Get value of Username

Return : UserName value

Method Name: setUserName (UserName:string):void

Description : Set a value of Username n

Return : UserName value

Method Name: getUserTel ():string

Description : Get value of Telephone number

Return : UserTelvalue

Method Name: setUserTel (UserTel:string):void

Description: Set a value of Telephone number

Return : UserTel value

CD-02: UserController

UserController

+addCashier(): void

+addBarista(): viod

+deleteCashier(): void

+deleteBarista(): void

Method Detail

Method Name: addChashier(): void

Description : Add cashier in to the system.

Return : addChashier value

Method Name: addBarista(): void

Description : Add barista to the system.

Return : addBarista value

Method Name: deleteChashier(): void

Description : Delete chashier in to the system.

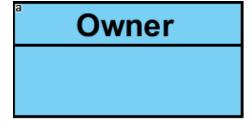
Return : deleteChashier value

Method Name: deleteBarista(): void

Description : Delete Barista in to the system.

Return : deleteBarista value

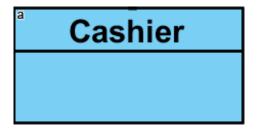
CD-03: Owner



Method Detail

Extends from class User.

CD-04: Cashier



Method Detail

Extends from class User.

CD-05: Barista



Method Detail

Extends from class User

CD-06: Order

Order

-orderld : int

-orderPrice : double

-productList : ArrayList<product>

-OrderStatus: string

+getOrderId(): int

+setOrderId(OrderId: int): void

+getOrderPrice(): double

+setOrderPrice(OrderPrice : double) : void

+getOrderStatus(): string

+setOrderStatus(OrderStatus: string): void

Entities

ID	Name	Description	Туре
1.	orderId	Number of order for identity order.	int
2.	orderPrice	Price of order	double
3.	productList	List of product for identity new product object from ProductClass	ArrayList
4.	OrderStatus	Status about order such as, Requesting, Doing and Completed	string

Method Detail

Method Name: getorderId():int

Description : Get value of orderId.

Return : orderId

Method Name: setorderId(OrderID:int):void

Description : Set value of orderId.

Return : orderId

Method Name: getOrderPrice ():double Description: get value of OrderPrice.

Return : OrderPrice

Method Name: setOrderPrice (PriceOrder:double):void

Description : set value of OrderPrice.

Return : OrderPrice

Method Name: getOrderStatus():string
Description: get value of status of order.

Return : OrderStatus

Method Name: setOrderStatus(OrderStatus:string):void

Description : set value of OrderStatus.

Return : OrderStatus

CD-07: OrderController

OrderController

- +printOrderID()
- +viewOrder()
- +completedOrder()
- +confirmOrder()
- +viewSummary()
- +printInvoice()

Method Detail

Method Name: printOrderID()

Description: Print order id.

Return: printOrderID value

Method Name: viewOrder()
Description: View order.
Return: Order value

Method Name: completedOrder ()

Description: Completed order.

Return: completedOrder value

Method Name: confirmOrder(): void

Description : Confirm order.
Return : confirmOrder value

Method Name: viewSummary(): void

Description : View summary.
Return : viewSummary value

Method Name: printInvoice(): void

Description : Print invoice.

Return : printInvoice value

CD-08: Product

Product

-ProductId: int

-ProductName : String

-Price : double

+getProductId(): int

+setProductId(ProductId: int): void

+getProductName(): String

+setProductName(ProductName: String): void

+getPrice(): double

+setPrice(Price : double) : void

Entities

ID	Name	Description	Туре
1.	ProductId	Number of product for identity product.	int
2.	ProductName	Name of product	String
3.	Price	Price of product	double

Method Detail

Method Name: getProductId():int

Description : Get value of ProductId.

Return : ProductId

Method Name: setProductId (ProductId: int):void

Description : set value of ProductId.

Return : ProductId.

Method Name : getProductName():string
Description : Get value of ProductName.

Return : ProductName

Method Name: setProductName(ProductName:string):void

Description : set value of ProductName.

Return : ProductName

Method Name : getPrice() : double Description : get value of price.

Return : Price

Method Name: setPrice(Price: double): void

Description : set value of price.

Return : Price

CD-09: ProductController

ProductController

- +editProduct()
- +addProduct()
 +deleteProduct()

Method Detail

Method Name: editProduct() Description : Edit product. Return : editProduct value

Method Name: addProduct() Description : Add product. Return : addProduct

Method Name: deleteProduct() Description : Delete product. : deleteProduct value Return

CD-010: Payment

Payment

-PaymentId: int

-AmountOfValue : double -PaymentType : string

+getPaymentId(): int

+setPaymentId(PaymentId: int): void

+getAmountOfValue(): double

+setAmountOfValue(AmountOfValue : double) : void

+getPaymentType(): string

+setPaymentType(PaymentType : string) : void

Entities

ID	Name	Description	Туре
1.	PaymentId	Number of payment for identity payment	int
3.	AmountOfValue	Show amout of value	Double
4.	PaymentType	Type of payment suchas, Cash or	string
		CreditCard	

Method Detail

Method Name: getPaymentID():int

Description: Get value of PaymentId.

Return : PaymentID

Method Name: setPaymentID(PaymentID:int):void

Description : Set value of PaymentId.

Return : PaymentID

Method Name: getAmountOfValue ():double Description: Get value of Amount of value.

Return : amount of value

Method Name: setAmountOfValue (AmountOfValue:double):void

Description : Set value of Amount of value.

Return : amount of value

Method Name: getPaymentType ():string
Description: Get value of Amount of value.

Return : payment type

Method Name: setPaymentType (PaymentType:string):void

Description : Set value of Amount of value.

Return : payment type

CD-11: ProductController

PaymentController

- +calculatePrice()
- +connectWithBank()

Method Detail

Method Name: calculatePrice()

Description: Calculate price.

Return: calculatePrice value

Method Name: connectWithBank ()

Description: Connect with the bank.

Return: connectWithBank

CD-12: invoice

Invoice

-date : date -invoiceId : int

+getDate(): date

+setDate(date : date) : void

+getInvoiceId(): int

+setInvoiceId(invoiceId: int): void

Entities

ID	Name	Description	Туре
1.	date	Date of invoice.	date
2.	invoiceId	Number of invoice for identity product.	int

Method Detail

Method Name: getDate(): date
Description: get value of Date.

Return : Date

Method Name: getDate(date: date): void

Description : set value of Date.

Return : Date

Method Name: getinvoiceId ()

Description : get value of invoiceId.

Return : invoiceId

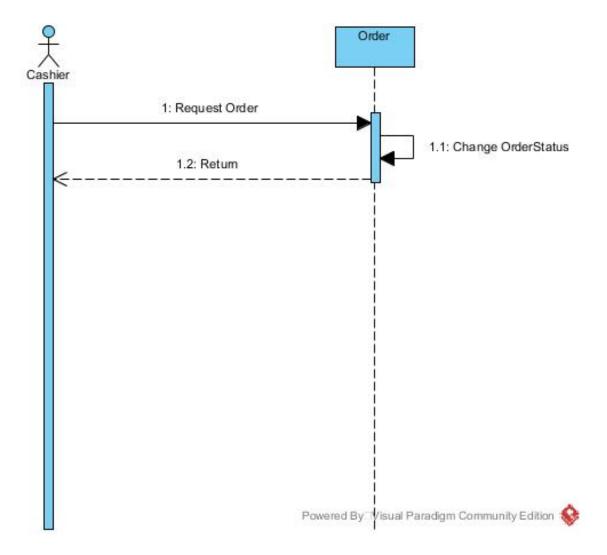
Method Name: setinvoiceId()

Description : set value of invoiceId.

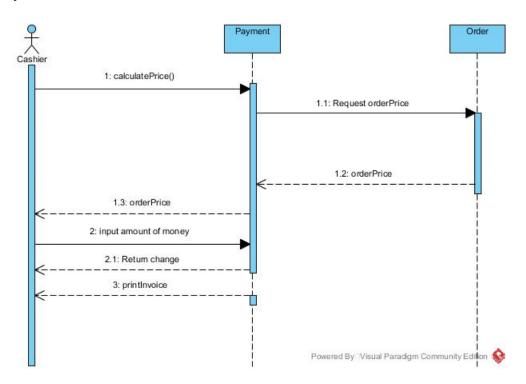
Return : invoiceId

Sequence Diagram

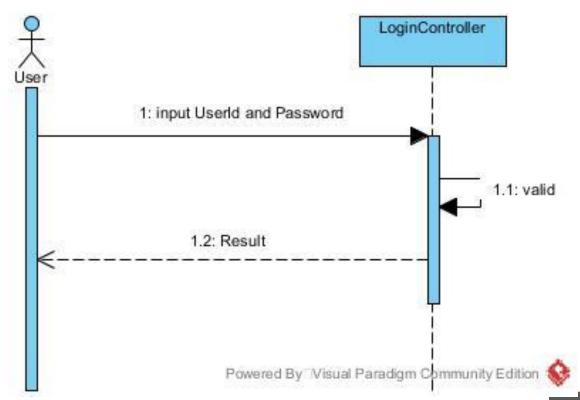
SD-001 Request Order



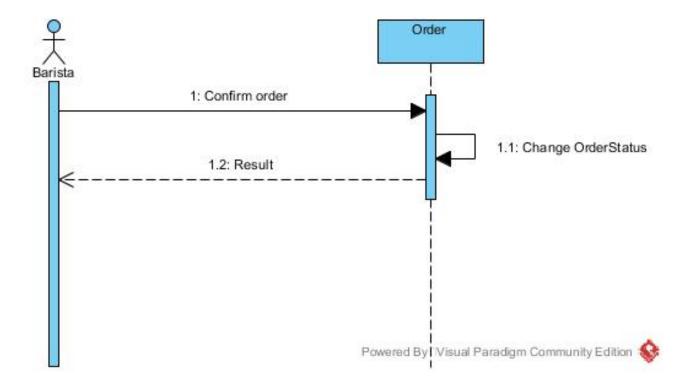
SD-002 Payment



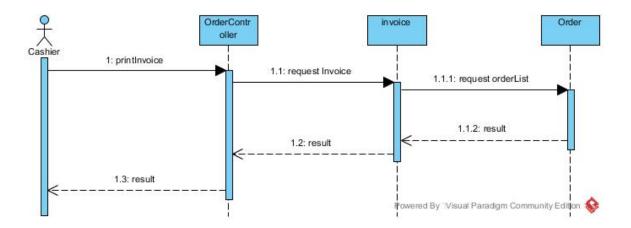
SD-003 Login



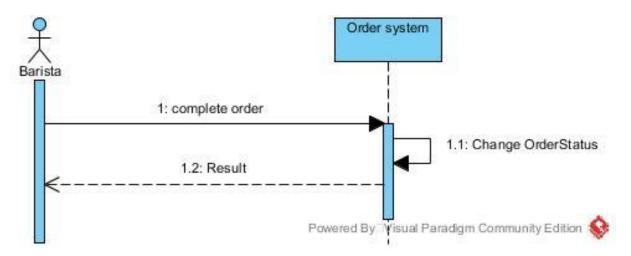
SD-004 Confirm order



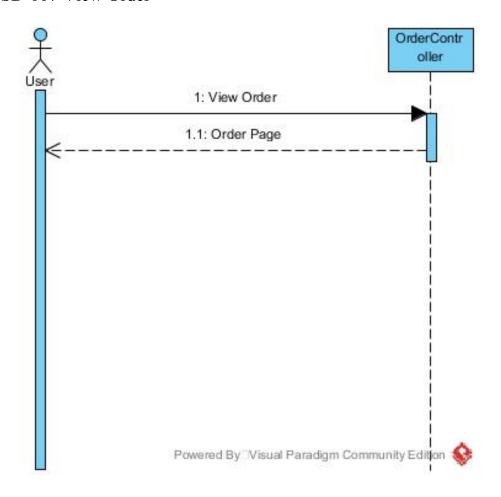
SD-005 Print invoice



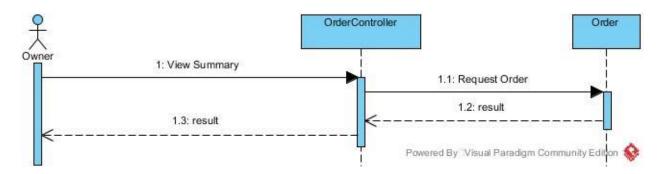
SD-006 Complete Order



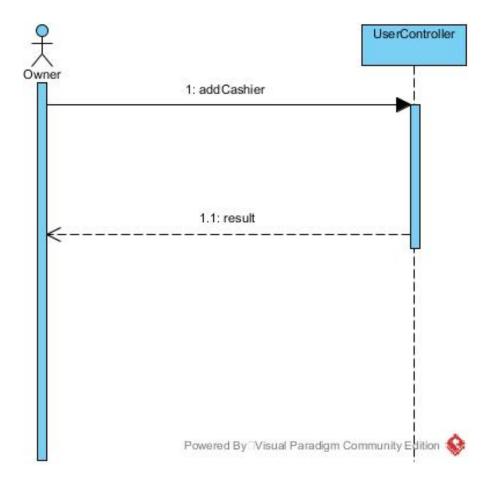
SD-007 View Order



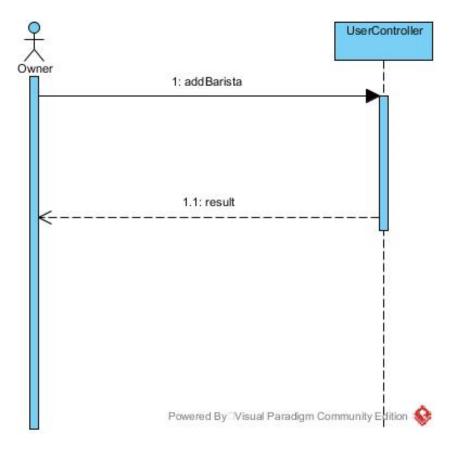
SD-008 View Summary



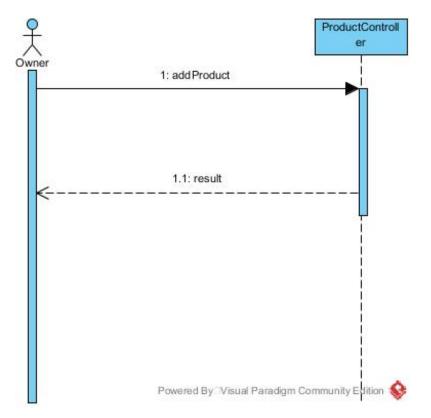
SD-009 Add Cashier



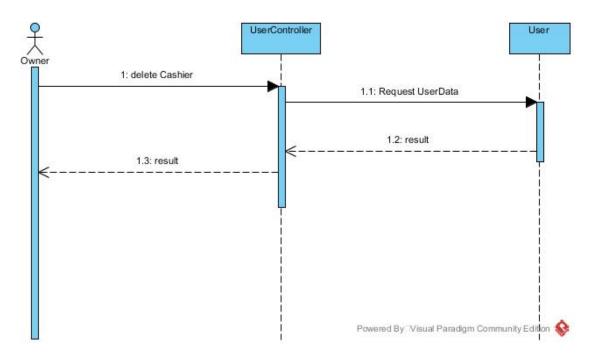
SD-010 Add Barista



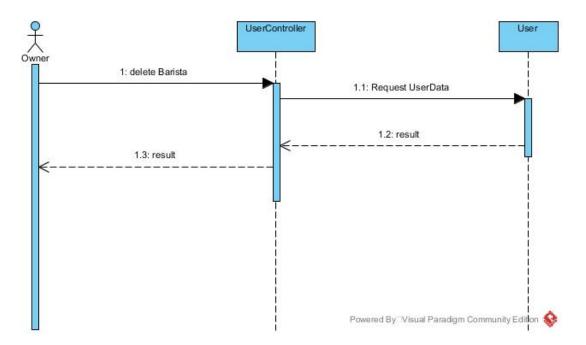
SD-011 Add Product



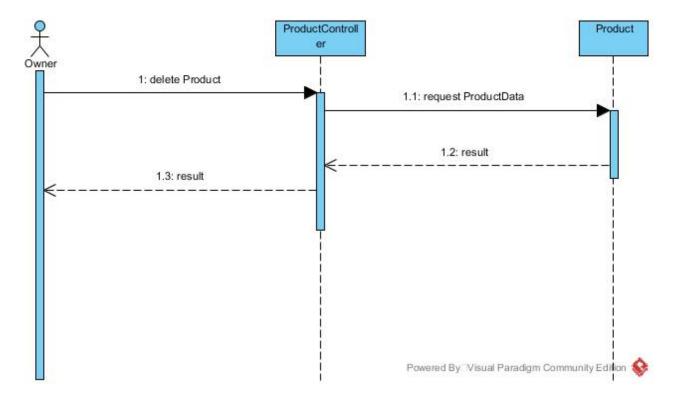
SD-012 Delete Cashier



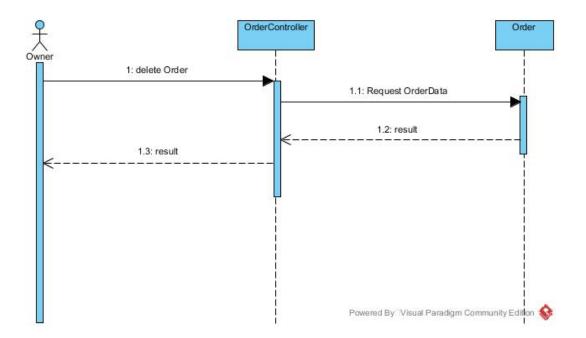
SD-013 Delete Barista



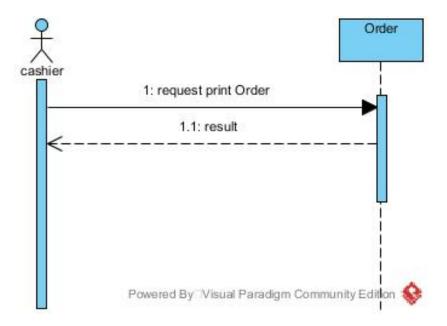
SD-014 Delete Product



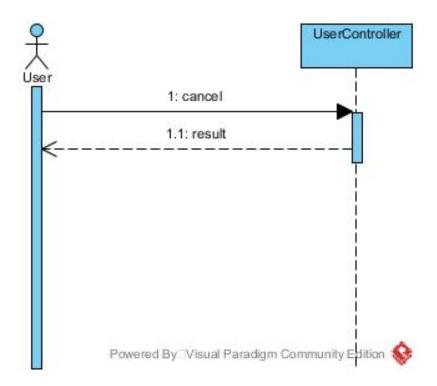
SD-015 Delete Order



SD-016 Print Order ID



SD-017 Cancel



SD-018 Logout

