Requirements and Use Cases

Team Number:	1
Project Name:	ClassDASH
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Clients:	Coby Lam, Emile Keruzore

Requirements

The following table lists ClassDASH's functional and nonfunctional requirements which define the scope of the project. Requirements are prioritized using the MoSCoW method wherein requirements are categorized as M - Must have, S - Should have, C - Could have, W - Won't have.

Functional requirements are organized into five categories: *Food Orders, Payment Related, Application Functions, and Food Worker-side Functions.*

Non-functional requirements are organized by *Standards, Safety-Related, Format-Related, and Accessibility.*

I. Fu	nctional Requirements	М	S	С	W
Foo	Food Orders				
1.1	All customers can order food via the mobile application	Х			
1.2	Customers and workers should be able to have a browsing section with all the foods available and time restrictions on the menu	Х			
1.3	Customers must be able to use a search bar to find specific items	Х			
1.4	Customers must be able to view recommended orders based off of prior orders	Х			
1.5	Customers can leave a note in regards to any food allergies, preferences or customize options for a selected item(eg: burger, no cheese, no lettuce, extra sauce)	Х			
1.6	The Customer will be able to review their order before confirming	Х			
Pay	ment Related				
2.1	All Customers can pay for their food using their ONECard, credit card, or debit card	Х			
2.2	Users will create a system account to log in/manage their account and payments		Х		
Арр	lication Functions	•			

I. Fu	nctional Requirements	M	S	С	W
3.3	3.3 An order through the app will have a unique identifier to ensure the right Customer receives their order (order ID)				
3.4	3.4 The application should mark an order as having been processed and remove it from the list of active orders		Х		
3.5	The application should actively update: presenting up-to-date menus to customers and retrieving new orders from the database for workers		Х		
3.6	The application should alert Workers when a packed order has been sitting too long and poses a risk		Х		
Food	d Worker-side Functions				
4.1	The system will have a food service interface that displays the orders (and the order ID) in a queue for Workers	Х			
4.2	Workers must be able to create service-side accounts to manage their menus (mark items sold out/new items/new descriptions or prices)	Х			
4.3	Workers can cancel the food order via the worker-facing side of the application if the food is not yet under preparation	Х			
4.4	The app should pass basic security tests when transmitting information to and from application and databases		Х		

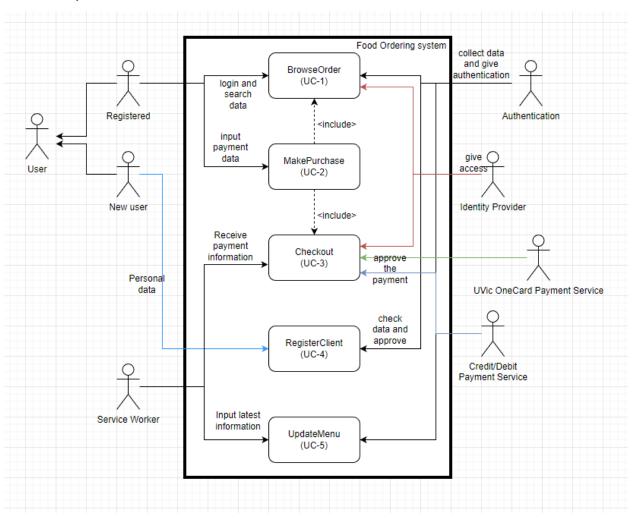
II. N	on-Functional Requirements	М	S	С	W
Star	ndards				
1.1	The application should have a minimum buffering time to ensure smooth user interactions		Х		
1.2	The application must be clean and simple looking design for easy navigation	Х			
1.3	The system should offer a faster ordering process than standing in line at peak hours		Х		
Safe	ty Related				
2.1	The system should encrypted users' personal information and financial transactions in ASCII standard		Х		
Forr	nat Related	•		•	
3.2	The System produces standard electronic receipts for users after order submissions			Х	
3.3	The food pick-up confirmation should be based on a QR-code system		Х		
3.4	The format of time counting for food preparation will be a 24-hour system			Х	
3.5	All currencies in the payment processes must be calculated in Canadian dollar	Х			
Acc	essibility	•		•	

II. No	on-Functional Requirements	M	S	С	W
4.1	The system must be accessible on both Android and iOS mobile systems	Х			

Use Cases

The following depicts the top-level system diagram that highlights the main actors and the actions available to them. The main actors include Users, both new and previously-registered, and Food Service Workers.

UC-0: Top level



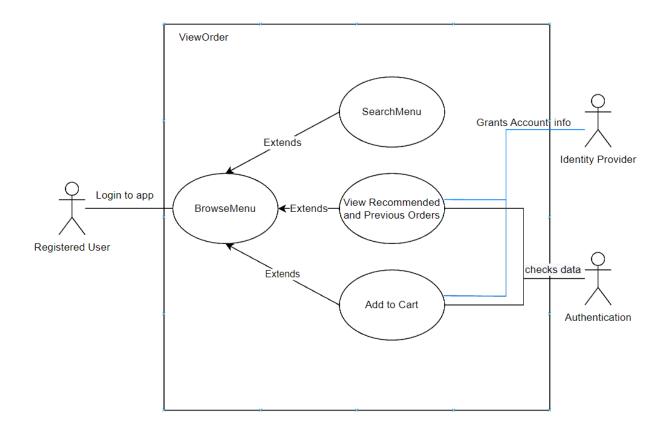
UC-0 Specifications

Name of Use Case:	ClassDash food ordering system		Use Case ID:	UC-0
Created by:	DoubleFast Inc.	Last Updated By:	Zikai Hao, Coby	/ Lam
Date Created:	19/10/2022	Last Revision Date:	28/10/2022	
Description:	The use case diagram represe identify, clarify, and organize sy			nalysis to
Actors:	Registered User, New User, Se Credit/Debit Payment service,			Provider,
Preconditions:	-Users (Students) must have a validate account with the system -Users can only place orders when food locations are available or open			
Postconditions:	-The food providers will not be able to check users' information after the orders are completed -Each order will save to up 3 months for later customer services			
Main Flow:	-When users login to the system they can view the information of food providers -If the users want to place order, they need to choose payment type -For both payment type (UVic OneCare or credit card), the payment services will receive the information and let the food providers collect payment -After the food providers collect the payment, they can start preparing food and create receipt -While food providers start preparing the foods, users(students) could track the process of the order			
Alternate Flow:	N/A			

Users, after registering an account, will look to use the application to browse a vendor's menu before creating their order and completing their purchase, allowing them to pick up their order when ready. Workers receive orders as they are submitted and tracked by the system and assemble them for User pickup. In addition, Workers navigate their vendor menu and update it as needed.

Next, each use case outlined in the top-level diagram is exploded, revealing the flows and relationships within.

UC-1: ViewOrder

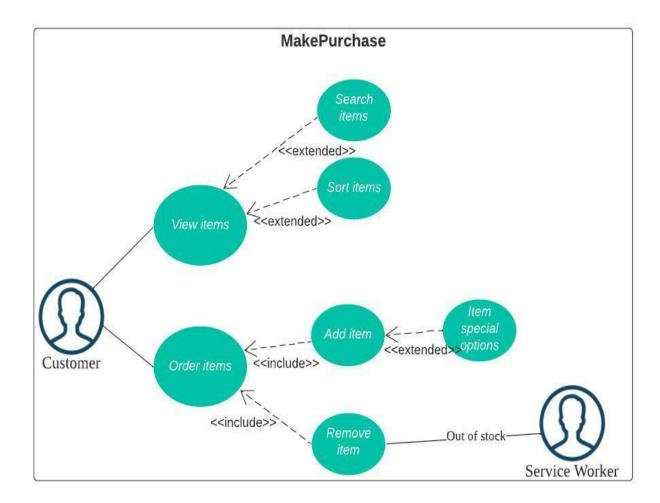


UC-1 Specification

Name of Use Case:	View Order		Use Case ID:	UC - 1	
Created by:	DoubleFast Inc.	Last Updated By:	Coby Lam		
Date Created:	21/10/2022	Last Revision Date:	28/10/2022		
Description:	The User can view and interact with the menu				
Actors:	Registered User	Registered User			
Preconditions:	The registered user has to be I	The registered user has to be logged in.			
Postconditions:	The User is finished with Viewi options	The User is finished with Viewing potential orders and proceeds to checkout options			

Main Flow:	The User opens the application and goes to the main page. User finds an item they like. extension point: AddToCart User adds the item to the cart The User proceeds to checkout the application
Alternate Flow:	Alternative flows are replacements for step 2. extension point: SearchMenu 2. User specifically searches for the item they want or extension point: View Recommended and Previous Orders 2. User views Recommended options and Previous Orders. 3. User selects a recommended item or previous item that they ordered. 1.Identity Provider grants Account information to 'View Recommended Orders and/or Previous Orders' extension and 'Add to Cart' extension. 2. Authentication checks data provided from user's account when 'View Recommended Orders and/or Previous Orders' extension and 'Add to Cart' extension are called.

UC-2: MakePurchase

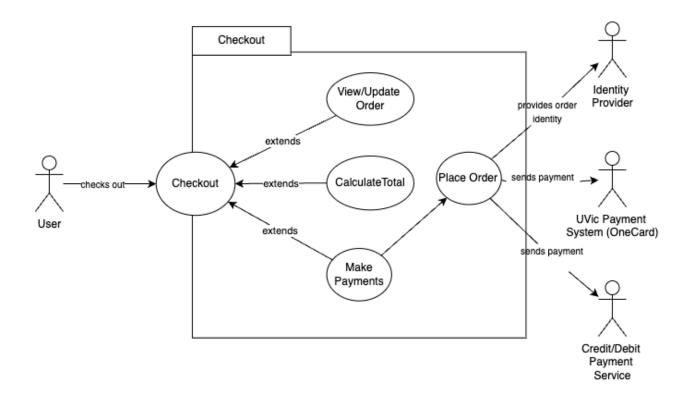


UC-2 Specifications

Name of Use Case:	ViewItems		Use Case ID:	UC – 2.1	
Created by:	DoubleFast Inc.	Last Updated By:	Pengfei Li		
Date Created:	<21/10/2022>	Last Revision Date:	<28/10/2022>		
Description:	This use case scenario illustrat	tes how users view ite	ems in the system.		
Actors:	Customers(Registered User)				

Preconditions:	All customers are registered and successfully logged in to the ClassDash system.
Postconditions:	Customers are ready to order what they want.
Main Flow:	 The registered customer wants to order food from the system. While the customer cannot find the preferred food: The customer sorts the menu for a better view. The customer searches the item name. The customer found the needed food.
Alternate Flow:	N/A

Name of Use Case:	OrderItems		Use Case ID:	UC - 2.2	
Created by:	DoubleFast Inc.	Last Updated By:	Pengfei Li		
Date Created:	<21/10/2022>	Last Revision Date:	<28/10/2022>		
Description:	This use case scenario illustrat	es how users order fo	ood in the system	١.	
Actors:	Customers(Registered User) /	Service Workers			
Preconditions:	Customers found what they wanted to eat successfully in the ClassDash system.			ash	
Postconditions:	The customers will be ready to pay for their food.				
Main Flow:	If the customer no longer n 2.1 The customer removes	2. If the customer no longer needs an item: 2.1 The customer removes the item from the cart.			
Alternate Flow:	The service worker checks all the resource inventory. If service worker finds a shortage of one or many kinds of materials: 2.1 All related dishes will be removed from the system				

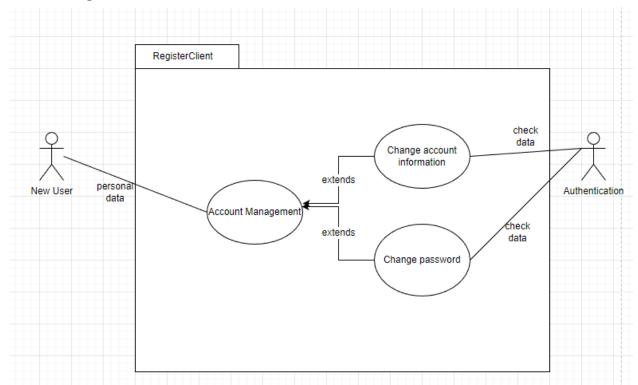


UC-3 Specifications

Name of Use Case:	Checkout		Use Case ID:	UC – 3	
Created by:	DoubleFast Inc.	Last Updated By:	Shivani Ram		
Date Created:	21/10/2022	Last Revision Date:	28/10/2022		
Description:	The goal of this use case is to walk through the steps taken when a user wants to check out after placing an order at UVic food services.				
Actors:	User, Identity Provider, OneCa	User, Identity Provider, OneCard, Credit/Debit Payment Services			
Preconditions:	Payment by OneCard or Debit/Credit cannot be done until the user proceeds to the Payment page				
Postconditions:	Once the Payment is completed, the Payment is sent to OneCard or Credit//Debit services and the order is placed.				
	When the order is placed, an id the customer's authentication	dentity is assigned to	the order that is I	inked to	

Main Flow:	If the customer wants to checkout
	1.1 The customer can see a final confirmation of their order
	1.2 The customer can see their grand total
	1.3 The customer proceeds to the payment screen
	While accessing the payment screen
	2.1 The customer can pay using OneCard
	2.2 The customer can pay using Credit/Debit Services
	3. While the order is placed
	3.1 Payment is sent to OneCard
	3.2 Payment is sent to Credit/Debit Payment Services
	3.3 Identity is assigned from Authentication
Alternate Flow:	N/A

UC-4: RegisterClient

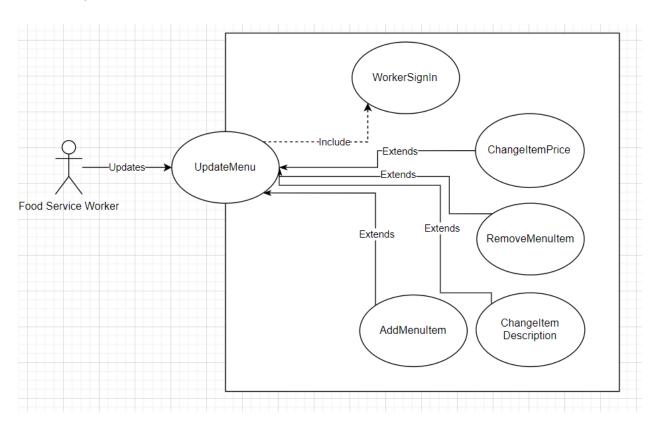


UC-4 Specifications

Name of Use Case:	RegisterClient		Use Case ID:	UC - 4
Created by:	DoubleFast Inc.	Last Updated By:	Zikai Hao, Pengfei Li	

Date Created:	<22/10/2022>	Last Revision Date:	<28/10/2022>	
Description:	The customer is about to register an account in the ClassDash system.			
Actors:	Customers / Authentication			
Preconditions:	The customer wants to order food from the ClassDash system and he or she must be a new user.			
Postconditions:	The customer registered an account in the system and is about to view menus later.			
Main Flow:	 If the users create an account and while they access into their account management, they can input their personal information In the account management, users can always change their original password later 			
Alternate Flow:	N/A		_	

UC-5: UpdateMenu



UC-5 Specifications

Name of Use Case:	UpdateMenu		Use Case ID:	UC - 5	
Created by:	DoubleFast Inc.	Last Updated By:	Emile Keruzore		
Date Created:	21/10/2022	Last Revision Date:	28/10/2022		
Description:	The use case outlines the process of updating a vendor's menu items: adding or removing items, changing the price, or changing the associated menu description for an item				
Actors:	Food Service Worker				
Preconditions:	The user interacting must be a registered worker successfully signed-in using authentication				
Postconditions:	The relevant vendor menu has been updated				
Main Flow:	IF the user is a Worker and WHILE they are successfully signed in THEN:				
	The Worker may browse their vendor menu, locate the item in question and:				
	2.1 Change the item's price				
	 Remove the item from the menu (If it is no longer available or out of stock) 				
		2.3 Change the item's description (The associated describing the and/or the display image used)			
	The Worker may add description and imag	a new item to the men e if desired	u with accompan	ying	
Alternate Flow:	N/A				