Requirement guide for class project

Use cases will be used as requirements for this project.

Template

An adaptation of the standard Cockburn template will be used. The template and examples follow:

ID and name	Inregistrare comanda		
Primary actor	Personalul medical	Secondary actors	
Description		Inregistrarea unei comenzi cu medicamente de catre un personal medical de la o anumita sectie	
Trigger		Personalul medical doreste inregistrarea comenzii apasand pe butonul "Comanda noua" de pe fereastra principala a aplicatiei	
Preconditions	Utilizatorul este autenti	ficat	
Postconditions		i este salvata in baza de fi trimisa la farmacie.O z	
Normal flow	2.Softul afiseaza lista da legerea starii 3.Utilizatorul selecteaz 4.Utilizatorul adauga ca 5.Utilizatorul apoi apas comanda" 6.Softul afiseaza mesa 7.Utilizatatorul apasa p 8.Softul afis mesajul "C se intoarce la pagina d cu comenzi	a click pe "Comanda no de medicamente si casula medicamentul dorit antitatea si starea pentru a pe butonul "Adauga mo butonul "Trimite coma comanda va fi trimisa la te start si comanda este deloga din aplicatie apas	te pentru cantitate si u acel medicament dedicamentul la ut" nda" farmacie.O zi buna! si salvata in baza de date
Alternative flows	5a1.Mesajul se afiseaz 5a2.Dupa terminarea o comanda 7a.Utilizatorul apasa pe 7a1.Softul afiseaza pag		buton onul de trimite

	7a3.Softul afiseaza lista de medicamente adaugate de utilizator 7a4.Utilizatorul modifica/sterge medicamente daca este nevoie 7a5.Utilizatorul verifica corectitudinea iar apoi apasa "Trimite comanda"
Exceptions	Personalul medical nu adauga cantitatea si starea dar apasa pe "Adauga medicamentul la comanda" 6a.Softul va afisa "Comanda necompletata"

Descriptions of template fields:

- **ID and name:** Title should be descriptive and should usually begin with a verb, e.g. order, calculate, input, etc. ID can have any format but must be unique among all use cases.
- **Primary actor:** Person that wishes to accomplish a goal through the use of the system. Only a single primary actor per use case.
- **Secondary actors:** Actors that have an interest in the completion of the goal but that do not directly interact with the system.
- **Description:** Concise description of the purpose of the use case.
- Trigger: Condition internal or external to the system that prompts the use case to start.
- **Preconditions:** Conditions that must be true before the use case starts. Each should be labeled with an ID unique to the use case.
- **Postconditions:** Conditions that must be true after the use case ends normally. Each should be labeled with an ID unique to the use case.
- Normal flow: Detailed step-by-step description of the logical flow of the use case. It should
 describe an explicit two way interaction, with the system prompting for input and the actor
 responding accordingly. Each step should be numbered.
- Alternative flows: Flows that achieve the same goal as the normal flow but are expected to be less common or lower priority.
- Exceptions: Conditions that result in the normal flow ending prematurely due to an unrecoverable condition in the system. The condition that causes the flow should be clearly stated, as should be any other decisions that the actor must make in this situation.

Examples

For a hypothetical Cafeteria Ordering System¹:

ID and name	UC-1: Order a Meal		
Primary actor	Patron	Secondary actors	Cafeteria Inventory System

¹ Examples adapted from Wiegers, K. E. & Beatty, J. (2013) Software requirements . 3rd ed. Redmond, WA: Microsoft Press.

Description Trigger Preconditions	A Patron accesses the Cafeteria Ordering System from either the corporate intranet or external Internet, views the menu for a specific date, selects food items, and places an order for a meal to be picked up in the cafeteria or delivered to a specified location within a specified 15-minute time window. A Patron indicates that he wants to order a meal. PRE-1. Patron is logged into COS.	
	PRE-2. Patron is registered for meal payments by payroll deduction.	
Postconditions	POST-1. Meal order is stored in COS with a status of "Accepted."	
	POST-2. Inventory of available food items is updated to reflect items in this order.	
	POST-3. Remaining delivery capacity for the requested time window is updated.	
Normal flow	1.0 Order a Single Meal	
	 Patron asks to view menu for a specific date. (see 1.0.E1, 1.0.E2) COS displays menu of available food items and the daily special. Patron selects one or more food items from menu. (see 1.1) Patron indicates that meal order is complete. (see 1.2) COS displays ordered menu items, individual prices, and total price, including taxes and delivery charge. Patron either confirms meal order (continue normal flow) or requests to modify meal order (return to step 2). COS displays available delivery times for the delivery date. Patron selects a delivery time and specifies the delivery location. Patron specifies payment method. COS confirms acceptance of the order. COS sends Patron an email message confirming order details, price, and delivery instructions. COS stores order, sends food item information to Cafeteria Inventory System, and updates available delivery times. 	
Alternative flows	1.1 Order multiple identical meals	
	 Patron requests a specified number of identical meals. (see 1.1.E1) Return to step 4 of normal flow. 1.2 Order multiple meals	
	1.2 Order multiple meals	

	 Patron asks to order another meal. Return to step 1 of normal flow.
Exceptions	1.0.E1 Requested date is today and current time is after today's order cutoff time
	1. COS informs Patron that it's too late to place an order for today.
	2a. If Patron cancels the meal ordering process, then COS terminates use case.
	2b. Else if Patron requests another date, then COS restarts use case.
	1.0.E2 No delivery times left
	COS informs Patron that no delivery times are available for the meal date.
	2a. If Patron cancels the meal ordering process, then COS terminates use case.
	2b. Else if Patron requests to pick the order up at the cafeteria, then continue with normal flow, but skip steps 7 and 8.
	1.1.E1 Insufficient inventory to fulfill multiple meal order
	1. COS informs Patron of the maximum number of identical meals he can order, based on current available inventory.
	2a. If Patron modifies number of meals ordered, then return to step 4 of normal flow.
	2b. Else if Patron cancels the meal ordering process, then COS terminates use case.

ID and name	UC-5 Register for Payroll Deduction		
Primary actor	Patron	Secondary actors	Payroll System
Description	be registered for payro through the COS, the c	use the COS and have related the COS and have related to the cape of the cost	h purchases made ment request to the

Trigger	Patron requests to register for payroll deduction, or Patron says yes when COS asks if he wants to register.	
Preconditions	PRE-1. Patron is logged into COS.	
Postconditions	POST-1. Patron is registered for payroll deduction.	
Normal flow	 COS asks Payroll System if Patron is eligible to register for payroll deduction. Payroll System confirms that Patron is eligible to register for payroll deduction. COS asks Patron to confirm his desire to register for payroll deduction. If so, COS asks Payroll System to establish payroll deduction for Patron. Payroll System confirms that payroll deduction is established. COS informs Patron that payroll deduction is established. 	
Alternative flows	None	
Exceptions	5.0.E1 Patron is not a full time employee.5.0.E2 Patron is already enrolled for payroll deduction.	

Extra credit step: Traceability

For this extra step, you will add traceability information for each use case by adding a new field to the template:

Method-level traces	<fully.qualified.classname>#<methodname></methodname></fully.qualified.classname>

Any method that implements the functionality described in the normal flow, alternative flow or exceptions should be included in this field. This means that the method that is initially executed and any methods of any classes that the work is delegated to should be included.

Examples for previous use cases:

UC-1:

Method-level traces	my.company.ordering.MenuWidget#dateClicked my.company.ordering.MenuWidget#completeOrder
	my.company.ordering.InventoryInterface#checkInventory

UC-5:	
Method-level traces	my.company.payroll.PayrollInterface#checkEligibility my.company.payroll.RegistrationForm#confirm