

## Group 27, Exercise 1, TDT4140

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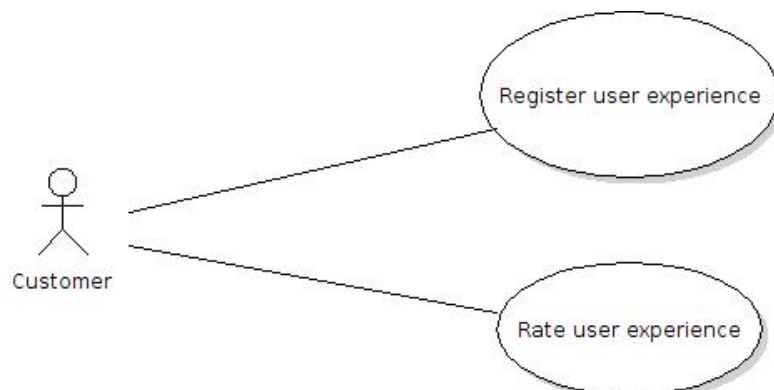
February 12, 2014

### 1 Our answer to exercise 1

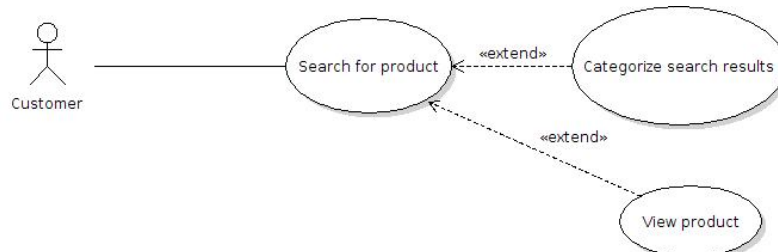
a) S1.



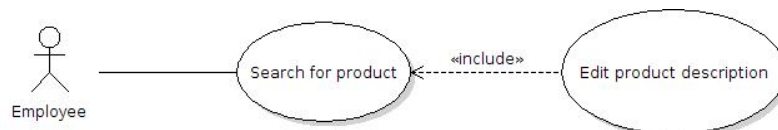
S2.



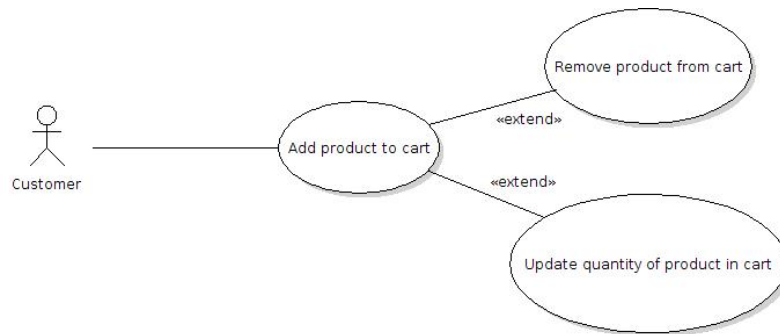
S3.



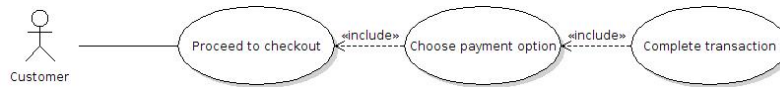
S4.



S5.



S6.



b) S1.

Name:	Register a product
Precondition:	Logged in as employee
	<ol style="list-style-type: none"> <li>1. The employee clicks on Register a product</li> <li>2. The employee fills in name, price, info and product image. Additional information like manufacture links and tests is optional.</li> <li>3. He publishes the product and logs out.</li> </ol>

S2.

Name:	Register experience with product
Precondition:	Logged in as customer.
	<ol style="list-style-type: none"> <li>1. The customer finds the item he wants to register a product experience for.</li> <li>2. He writes an experience.</li> <li>3. He publishes and logs out.</li> </ol>

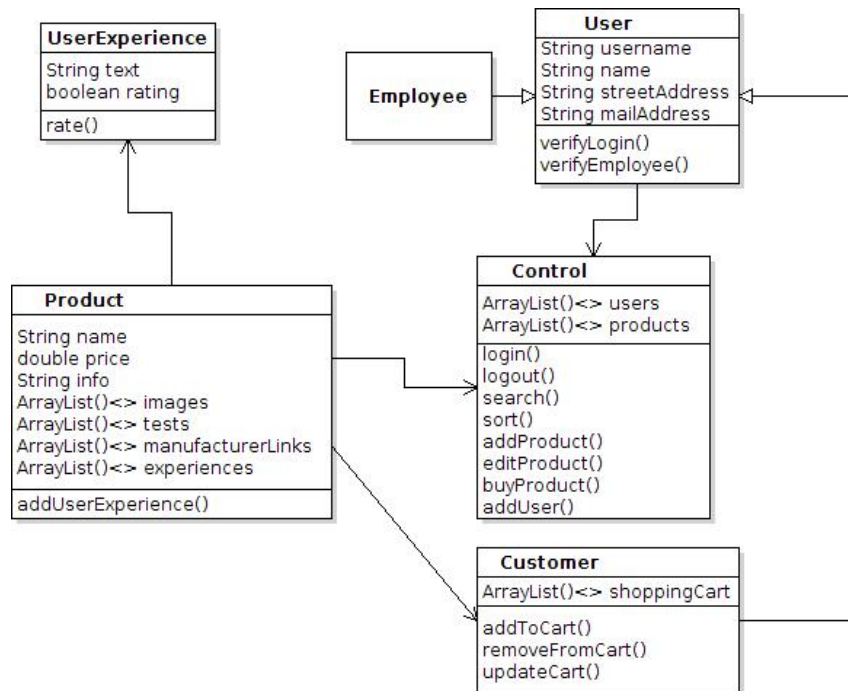
Name:	Rate product experience
Precondition:	Logged in as customer.
	<ol style="list-style-type: none"> <li>1. The customer finds the product experience he wants to rate.</li> <li>2. He rates it useful or not useful.</li> <li>3. He logs out.</li> </ol>

S3.

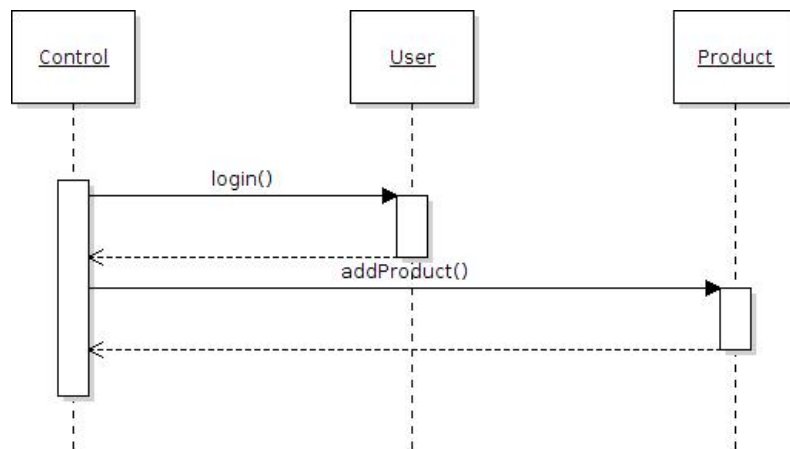
Name:	Search for product
Precondition:	None
	<ol style="list-style-type: none"> <li>1. The customer enters a query in the search field. He clicks on search.</li> <li>2. The customer filters by product attributes. (optional)</li> <li>3. He clicks on a product and views detailed product information.</li> </ol>
Error handling:	<ol style="list-style-type: none"> <li>1.1 If search yields no results, he tries a different query.</li> </ol>

S4.	Name:	Edit products
	Precondition:	Logged in as employee
		<ol style="list-style-type: none"> <li>1. The employee searches for the product he wants to edit.</li> <li>2. He edits the product information.</li> <li>3. He publishes and logs out.</li> </ol>
S5.	Name:	Edit shopping cart
	Precondition:	Logged in as customer
		<ol style="list-style-type: none"> <li>1. The customer finds a product and adds it to the shopping cart.</li> <li>2. He can change quantity or remove product from the cart (optional).</li> </ol>
S6.	Name:	Buy product
	Precondition:	There is at least one item in the shopping cart.
		<ol style="list-style-type: none"> <li>1. The customer proceeds to checkout.</li> <li>2. He chooses payment option.</li> <li>3. He completes the transaction on a 3rd party website and is sent back for confirmation and receipt.</li> </ol>

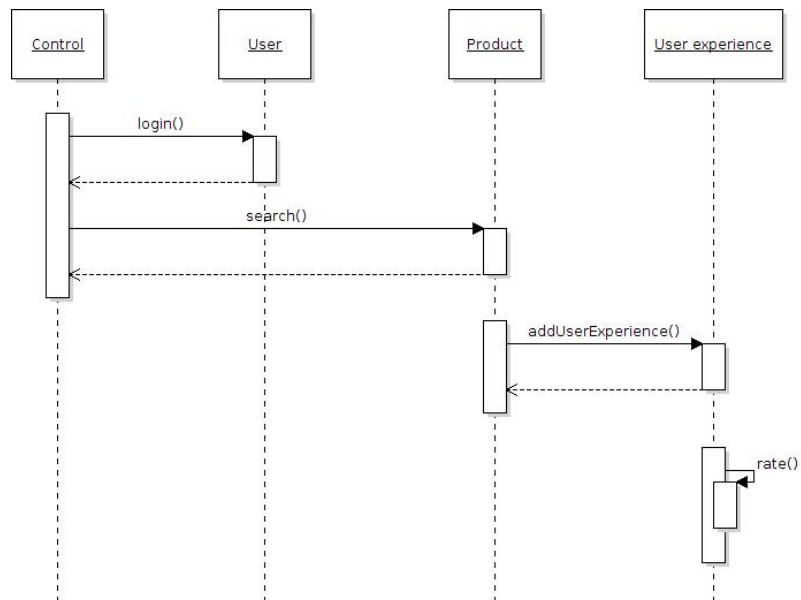
c)



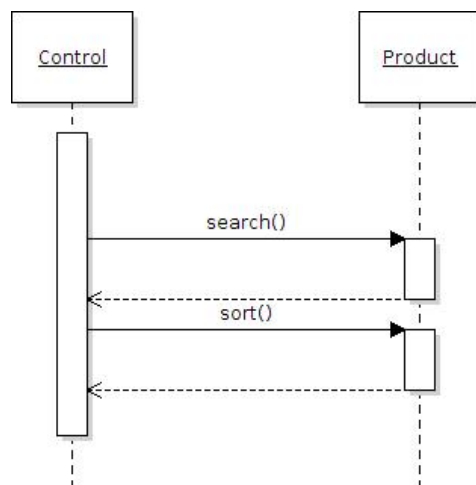
d) S1.

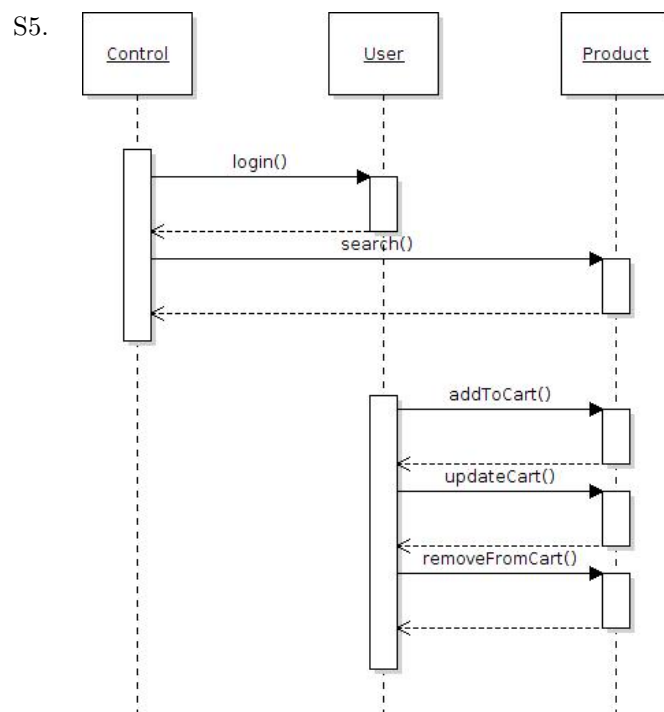
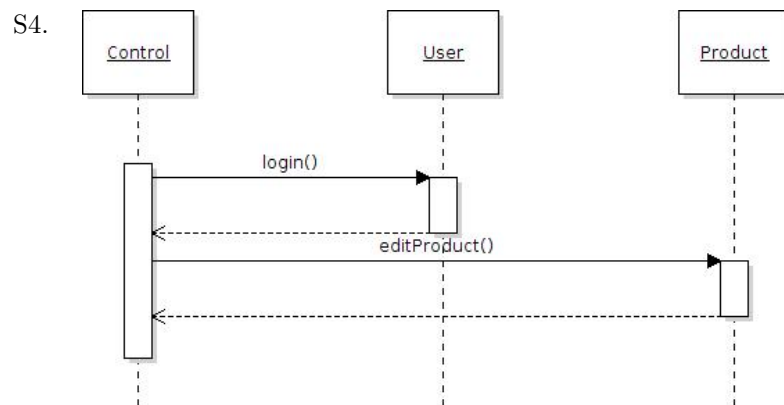


S2.

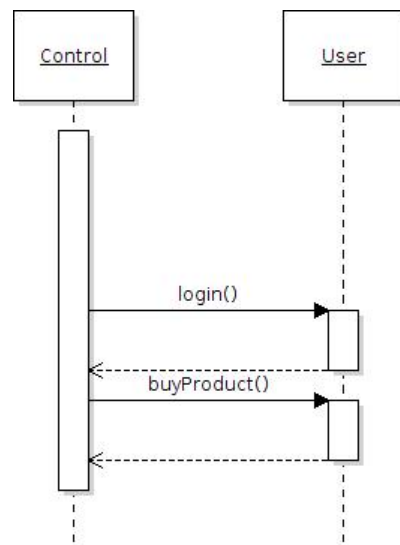


S3.





S6.



nr	aktivitet	min	normal	maks
1	Database model 1		30	
2	Database model 2		30	
3	Register product		15	
4	Register product (GUI)		15	
5	Register and rate experience with product		20	
6	Register and rate experience with product (GUI)		20	
7	Search product		20	
8	Search product (GUI)		15	
9	Edit product		10	
10	Edit project (GUI)		10	
11	Edit shopping cart		20	
12	Edit shopping cart (GUI)		20	
13	Buy product		25	
14	Buy product (GUI)		20	
15	Documentation of database model		15	
16	Documentation of Middle layer		25	
17	Documentation og GUI		10	
18	Test register product		10	
19	Test register experience and rating		10	
20	Test search product		10	
21	Test edit product		10	
22	Test edit shopping cart		10	
23	Test buy product		15	
24	Test security		20	
25	Project management		80	
sum			485	

Table 1: Project bulks/milestones

e) We estimate that the cost of the project would be,

$$C = c_{avg} * h = 800 * 485 = 388000kr$$

where  $c_{avg}$  is average cost per hour per developer, and  $h$  is number of hours.

Activity	Week 1	Week 2	Week 3	Week 4
1	DB (15h)	DB (15h)		
2			DB (15h)	DB (15h)
3	D1 (15h)			
4	D2 (15h)			
5	D3 (20h)			
6	D4 (20h)			
7		D1 (20h)		
8		D2 (15h)		
9	D1 (10h)			
10	D2 (10h)			
11		D3 (20h)		
12		D4 (20h)		
13			D1 (25h)	
14			D2 (20h)	
15				DB (15h)
16			D3 (25h)	
17			D4 (10h)	
18			D4 (10h)	
19				D1 (10h)
20				D1 (10h)
21				D1 (10h)
22				D2 (10h)
23				D2 (15h)
24				D3 (20h)
25	PM (20h)	PM (20h)	PM (20h)	PM (20h)

Table 2: Projects' gantt diagram.

DB Database Expert  
 D1 Developer 1  
 D2 Developer 2  
 D3 Developer 3  
 D4 Developer 4  
 PM Project Manager