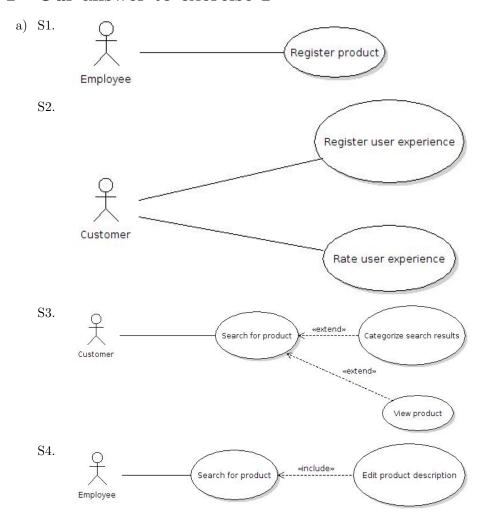
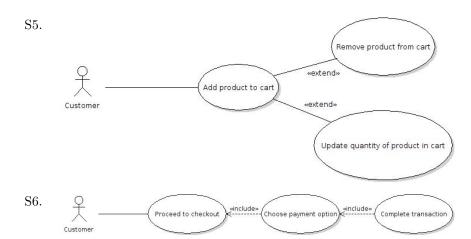
## Group 27, Exercise 1, TDT4140

Andreas Drivenes, Eivind Havikbotn, Eivind Gjerde Johansen, Einar Eilertsen Eldevik, Nicholas Tidemann, Bjørn Bråthen

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## 1 Our answer to exercise 1





b) S1.	Name:		Register a product
	Precondition:		Logged in as employee
		1.	The employee clicks on Register a product
		2.	The employee fills in name, price, info and
			product image. Additional information like
			manufacture links and tests is optional.
		3.	He publishes the product and logs out.

S2.	Name:		Register experience with product
	Precondition:		Logged in as customer.
		1.	The customer finds the item he wants to reg-
			ister a product experience for.
		2.	He writes an experience.
		3.	He publishes and logs out.

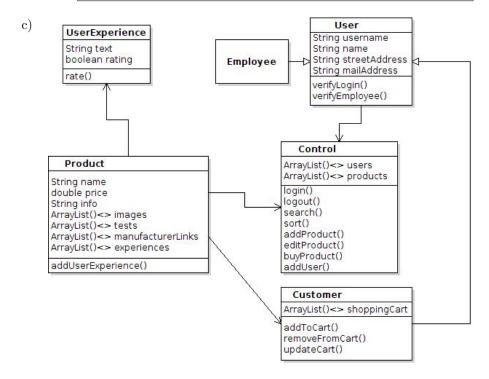
Name:		Rate product experience
Precondition:		Logged in as customer.
	1.	The customer finds the product experience
		he wants to rate.
	2.	He rates it useful or not useful.
	3.	He logs out.

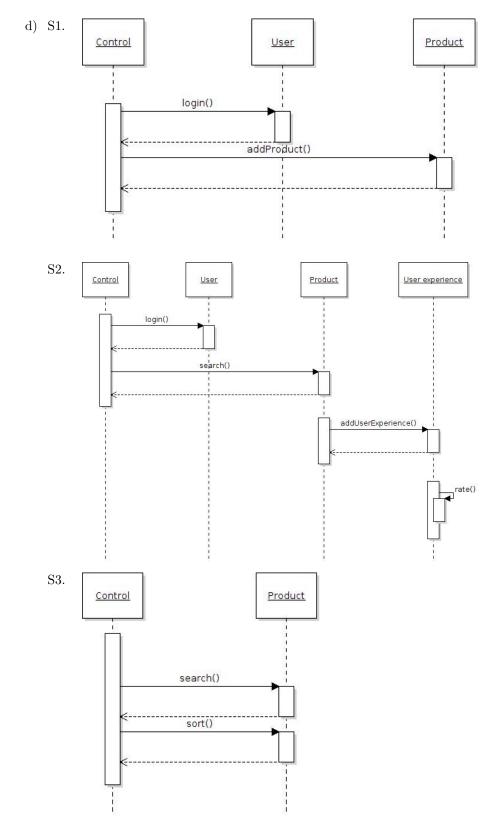
S3.	Name:		Search for product
	Precondition:		None
		1.	The customer enters a query in the search
			field. He clicks on search.
		2.	The customer filters by product at-
			tributes. (optional)
		3.	He clicks on a product and views detailed
			product information.
	Error handling:	1.1	If search yields no results, he tries a dif-
			ferent query.

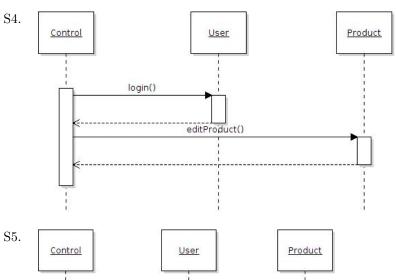
S4.	Name:		Edit products
	Precondition:		Logged in as employee
		1.	The employee searches for the product he
			wants to edit.
		2.	He edits the product information.
		3.	He publishes and logs out.

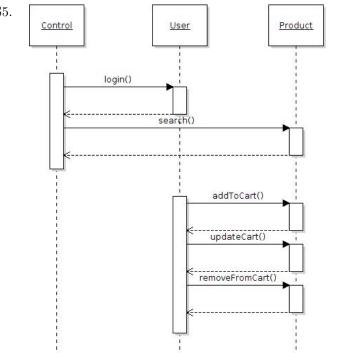
S5.	Name:		Edit shopping cart
	Precondition:		Logged in as customer
		1.	The customer finds a product and adds it to
			the shopping cart.
		2.	He can change quantity or remove product
			from the cart (optional).

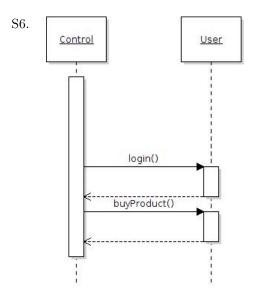
S6.	Name:		Buy product
	Precondition:		There is at least one item in the shopping
			cart.
		1.	The customer proceeds to checkout.
		2.	He chooses payment option.
		3.	He completes the transaction on a 3rd party
			website and is sent back for confirmation and
			receipt.











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.

Acticity	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.

DBDatabase Expert

Developer 1 D1

D2Developer 2

Developer 3
Developer 4 D3

D4

PMProject Manager

TestID	1
Test item (features to be	Register product
tested)	
Approach	An employee runs a test on the system. The system has
	to be run on a representative computer. The test is re-
	peated at different time intervals.
Item pass / fail criteria	The product has to be registered in a database with the
·	correct information.
Input data	Product name: Intel CPU
	Product price: 2499 NOK
	Product image: http://www.intel.com/images/26262
	Tests: http://www.cnet.com/tests/intel/23434,
	http://www.itavisen.no/tester/7367
	Manufacturer links: http://www.intel.com/product/3432/v:
Expected results	Product with the specific input data should be added to
	the system.
Testing task (description of	1. The employee clicks on Register a product
test)	
	2. The employee fills in name, price, info and product im-
	age. Additional information like manufacture links and
	tests is optional.
	3. He publishes the product.
	4. He verifies that the product has been correctly added.
Necessary environmental re-	The user must be an employee and logged into the sys-
quirements	tem.
References to user scenario,	Scenario 1
use case, sequence diagrams	
and overall class diagram	
Any dependability between	NaN
this test and the other tests	
defined.	

f)

TestID	2.1
Test item (features to be	Register experience with product
tested)	
Approach	A user runs a test on the system. The system has to be
	run on a representative computer. The test is repeated
	at different time intervals.
Item pass / fail criteria	The experience has to be registered in a database with
·	the correct information.
Input data	Title: Great product!
	Text: I like this fantastic product!
Expected results	The product experience should be added to the system.
Testing task (description of	1. The user finds the item he wants to register a product
test)	experience for.
	2. He writes an experience.
	3. He publishes.
	4. He verifies that the experience is correctly added to
	the system.
Necessary environmental re-	The user must be logged in.
quirements	
References to user scenario,	Scenario 2
use case, sequence diagrams	
and overall class diagram	
Any dependability between	Scenario 1 has to be completed at least once.
this test and the other tests	
defined.	

TestID	2.2
Test item (features to be	Rate experience
tested)	
Approach	A user runs a test on the system. The system has to be
	run on a representative computer. The test is repeated
	at different time intervals.
Item pass / fail criteria	The rating of the experience has to be registered in a
	database with the correct information.
Input data	Value: true/false
Expected results	The rating of the experience should be added to the sys-
	tem.
Testing task (description of	1. The customer finds the product experience he wants
test)	to rate.
	2. He rates it useful or not useful.
	3. He verifies that the rating of the experience is regis-
	tered.
Necessary environmental re-	The user must be logged in.
quirements	
References to user scenario,	Scenario 2
use case, sequence diagrams	
and overall class diagram	
Any dependability between	Scenario 1 and scenario 2.1 has to be completed at least
this test and the other tests	once.
defined.	

TestID	3
Test item (features to be	Search for product
tested)	
Approach	A user runs a test on the system. The system has to be
	run on a representative computer. The test is repeated
	at different time intervals.
Item pass / fail criteria	The correct information has to be retrieved and displayed
	on screen.
Input data	Search input: Intel CPU.
Expected results	The entry for Intel CPU should be displayed on screen.
Testing task (description of	1. The customer enters a query in the search field. He
test)	clicks on search.
	2. The customer filters by product attributes (optional).
	3. He clicks on a product and views detailed product
	information.
Necessary environmental re-	None.
quirements	
References to user scenario,	Scenario 3
use case, sequence diagrams	
and overall class diagram	
Any dependability between	Scenario 1 has to be completed at least once.
this test and the other tests	
defined.	

TestID	4
	-
Test item (features to be	Edit product
tested)	
Approach	A user runs a test on the system. The system has to be
	run on a representative computer. The test is repeated
	at different time intervals.
Item pass / fail criteria	Information about the product was correctly updated.
Input data	Product name: Intel CPU
	Product price: 4999 NOK
	Product image: http://www.intel.com/images/26276
	Tests: http://www.cnet.com/tests/intel/23435,
	http://www.itavisen.no/tester/7331
	Manufacturer links: http://www.intel.com/product/3432/v
Expected results	The new information should be displayed in the entry.
Testing task (description of	1. The employee searches for the product he wants to
test)	edit.
	2. He edits the product information.
	3. He publishes and logs out.
Necessary environmental re-	The user must be an employee and logged into the sys-
quirements	tem.
References to user scenario,	Scenario 4
use case, sequence diagrams	
and overall class diagram	
Any dependability between	Scenario 1 has to be completed at least once.
this test and the other tests	_
defined.	

TestID	5
Test item (features to be	Edit shopping cart
tested)	
Approach	A user runs a test on the system. The system has to be
	run on a representative computer. The test is repeated
	at different time intervals.
Item pass / fail criteria	The user's shopping cart has to be updated with the cor-
	rect data.
Input data	Product name: Intel CPU
Expected results	The product should get added to the shopping cart.
Testing task (description of	1. The customer finds a product and adds it to the shop-
test)	ping cart.
	2. He can change quantity or remove product from the
	cart (optional).
Necessary environmental re-	The user must be logged in.
quirements	
References to user scenario,	Scenario 5
use case, sequence diagrams	
and overall class diagram	
Any dependability between	Scenario 1 has to be completed at least once.
this test and the other tests	
defined.	

TestID	6
Test item (features to be	Buy product
tested)	
Approach	A user runs a test on the system. The system has to be
	run on a representative computer. The test is repeated
	at different time intervals.
Item pass / fail criteria	The correct products must get shpped to the provided
	address.
Input data	A shopping cart
Expected results	The product is to be found in your mailbox within a
	limited amount of time.
Testing task (description of	1. The customer proceeds to checkout.
test)	
	2. He chooses payment option.
	3. He completes the transaction on a 3rd party website
	and is sent back for confirmation and receipt.
Necessary environmental re-	The user must be logged in and have at least one item in
quirements	his shopping cart.
References to user scenario,	Scenario 6
use case, sequence diagrams	
and overall class diagram	
Any dependability between	Scenario 1 and 5 each have to be completed at least once.
this test and the other tests	
defined.	