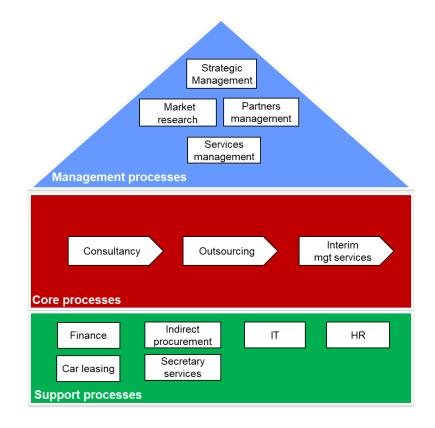
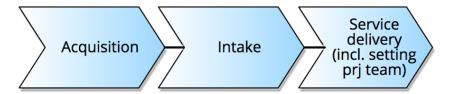
Assignment 1 Solutions

1.

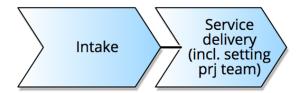
- <u>Core processes</u> [groups]
 - Consultancy (acquisition, intake, delivery)
 - Outsourcing (acquisition, intake, provision)
 - Interim management (acquisition, intake, delivery)
- Support processes [groups]
 - Indirect procurement (operational resources replenishment...)
 - HR (policies update, recruitment, induction, probation...)
 - IT
 - Finance
 - Car leasing
 - Secretary services
- Management processes [groups]
 - Strategic management
 - Market research
 - Partners management
 - Services management



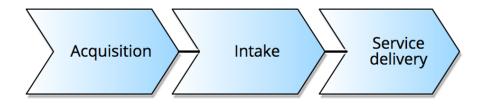
New clients (consultancy and outsourcing)



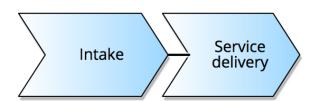
Existing clients (consultancy and outsourcing)



New clients (interim management)



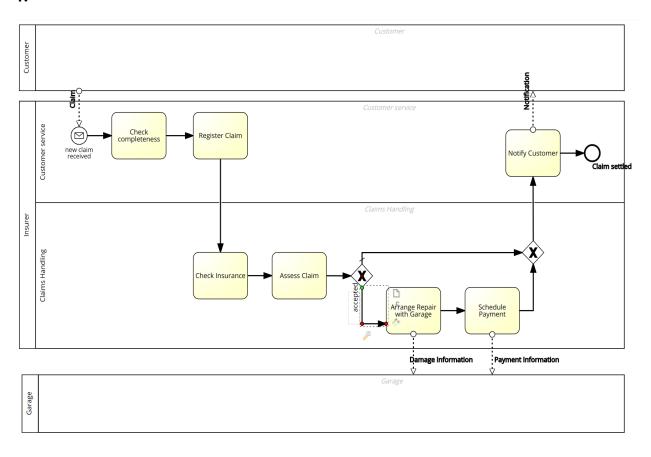
Existing clients (interim management)

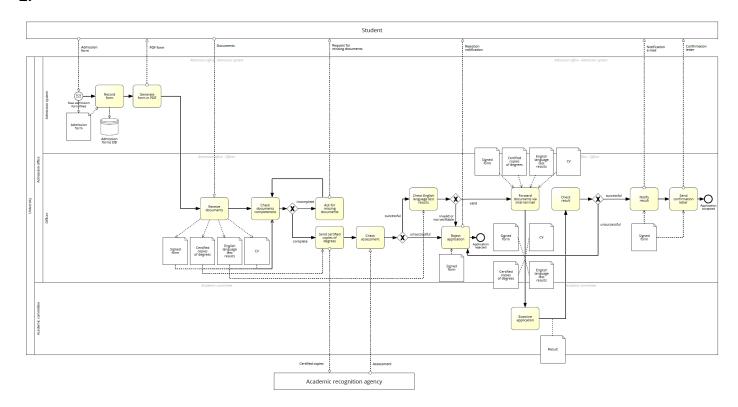


Note: a single value chain with Acquisition, Intake and Service delivery is also correct, since processes within a value chain can be skipped.

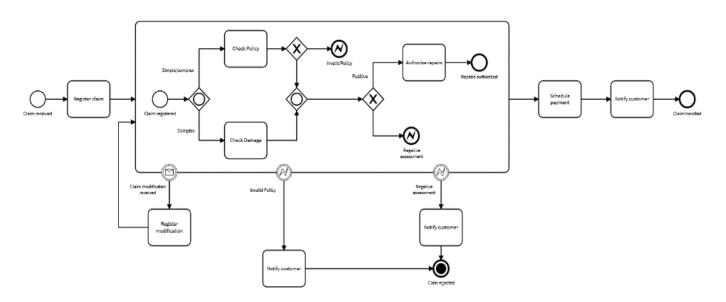
Assignment 2 Solutions

1.





3.



Assignment 3 Solutions

1.

Assumptions: the travel agency receives around 100 itinerary requests per day and that the agency makes 50 bookings per day. Each booking brings a gross profit of 100 to the agency. On average, every two complaints lead to a customer churning (to "churn" means to switch to another service provider in future dealings).

A.

Issue 1: Errors during the booking		
Priority	1	
Description	Errors are made in the booking process based on tickets with false dates and not	
	well conducted changes of ongoing bookings.	
Data and	On average, 2% of customers have errors in their booking process. Based on 50	
Assumptions	daily bookings, one includes false information.	
Quantitative	2%*50*100 = 100 (missing / returning gross profit daily)	
Impact	2%*50/2 = 0.5 (customer churn daily – every two days one customer switches the provider)	
Qualitative	Unsatisfied customers result in bad publicity and missing future customers.	
Impact	Also, the company needs to be aware of legal processes based on compensation of damages	
Issue 2: Long response times		
Priority	2	
Description	The response times highly differ based on the complicity of the request.	
Data and	On 10% of the requests it takes up to 2 days for the agents to answer the request.	
Assumptions	Those long waiting times are handled as complaints by customers which means	
	that half of those complaints result in customer churn.	
Quantitative	10%*100 = 10 (daily 10 new cases that take up to two days to response to)	
Impact	10/2 = 5 (customers who switch the service based on long waiting times)	
Qualitative	Unsatisfied customers result in bad publicity and missing future customers.	
Impact		
Issue 3: Missing service quality		
Priority	1	
Description	The service quality is in some cases not high enough which results in booked	
	flight connection that does not represent the best possibilities for each individual	
	customer.	
Data and	For 5% of the customers the booked flight does not represent the best flight	
Assumptions	connection or price based on their wishes.	
Quantitative	5%*50 = 2.5 (customers per day with not the best flight connection	
Impact	2,5/2 = 1,25 (customer churn per day based on complaints)	
Qualitative	Unsatisfied customers result in bad publicity and missing future customers. And	
Impact	the risk of cash back requests because of bad customer service.	

The following why-why diagrams are structured as nested bullet-point list (each level of indentation represents a "deeper why")
 □ Errors during the booking ○ Change Process results in errors ■ Unclear process for the travel agent □ Missing initial employee training
 ☐ Missing process documentation ■ Missing controlling instance ☐ Missing knowledge of controlling ☐ Employees are too busy and they multi-task
 Travel agents are making mistakes Missing controlling instance Missing knowledge of controlling Employees are too busy and they multi-task
 Missing process automation to support employees Missing knowledge about process automation Employees are too busy and they multi-task
Long response timesComplicated itinerary requests
 ■ Missing necessary information □ Customers can enter whatever they want in forms ○ Missing IT knowledge ■ Missing trainings ■ Employees are too busy and they multi-task □ Customers can request flights via mail ○ Old service based on missing IT infrastructure at customer places
 Strict information about flight routes □ Customers can request whatever they want ○ Provide better customer service ○ Customers can send request via mail ■ Old service based on missing IT infrastructure at customer places
☐ Missing service quality○ Human mistakes
 ■ Missing controlling instance □ Missing knowledge of controlling □ Employees are too busy and they multi-task ■ Missing process automation □ Missing knowledge about process automation ○ Employees are too busy and they multi-task
 Manual search by employees

☐ Missing IT software

- o Changing flight information
 - Flight provider change their data based on demand
 - ☐ Higher percentage of full planes

2.

Theoretical Cycle Time (TCT) = 2 + 0.9*(3 + max(2, 2) + 1) = 7.4 hours

Cycle time efficiency: TCT / CT = 7.4/16 = 46.25%

3.

Activity	Time
	Waiting time: 2 weeks = 80 hours (8 hours per day, 5 days a
Receive documents by post	week)
	Processing time: 0 (instant event)
Check documents for	Waiting time: (no information)
	Processing time: 10 minutes = 1/6 hours
completeness	(20% of applications are incomplete)
Validate documents with	Waiting time: 2 weeks = 80 hours
	Processing time: 10 minutes = 1/6 hours
agency	(10% of applications are rejected)
	Waiting time: 1 day – 10 minutes = 7 5/6 hours
Check English test results	Processing time: 10 minutes = 1/6 hours
	(10 % are rejected)
Assess application by	Waiting time: 2 weeks = 80 hours
academic committee	Processing time: 1hour= 60 minutes
Record decision	Waiting time: (no information)
Necord decision	Processing time: 2 minutes = 2/60 hours

Theoretical cycle time (<u>only consider processing time</u>). Let's work with minutes, since hour computations will be more difficult.

The event "documents received by post" and the activity "Check documents for completeness" execute at least once. It is a rework block, so the average theoretical cycle time for this block of activities is:

$$TCT_1 = \frac{T}{1-r} = \frac{0+10}{1-0.20} = 12.5 \text{ minutes}$$

If the documents are complete, they need to be checked by the academic recognition agency. The cycle time increases:

$$TCT_2 = TCT_1 + 10 = 22.5$$
 minutes

There is 10% chance that degree will not be verified, so there is only 90% possibility that all next activities after verification by academic recognition agency will be executed. The same statements are true also for the test of English. So the TCT could be calculated as follows:

$$TCT = TCT_2 + 0.9(10 + 0.9(60 + 2)) = 81.72 \text{ minutes}$$