GROUP PROJECT DIGITALIZATION OF BUSINESS PROCESSES

CASE: MEDICAL HEALTH INSURANCE



PC: Pixabay

Team Fete des Vignerons:

Lukasz Kaczmarek, Banujan Ragunathan, Andreas Hetschel and Grégory Witmer

Scenario

- Inspiration from pre-defined project cases and from the working place of project team member
- Claim process from Medical Health Insurance (MHI)
- Authenticate the customers and check the medical bills properly
- Check if the medical case refers to claimed medical bill
- Further medical investigation by the experienced Checkmedical (CM)
- Example of treatment of a patient who gets injured by his cat





What happened?

- Cats are human companions for millennia
- Approximately 1.8 million living in Swiss households
- Cat try to get revenge on his owner because he forgets often to feed him.
- Owner gets injured by falling cupboard
- It caused several faces and skin injuries
- Owner claims his medical insurance after staying in hospital

Source: Statistica PC: Lezebre

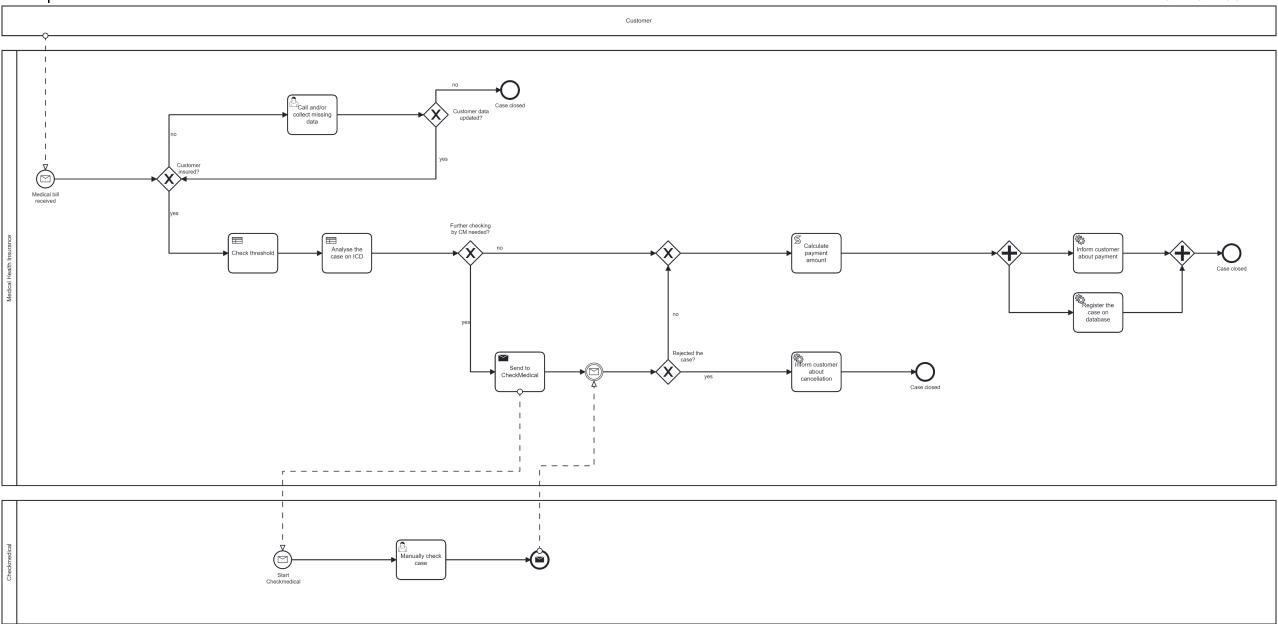


Pains of Medical Health Insurance

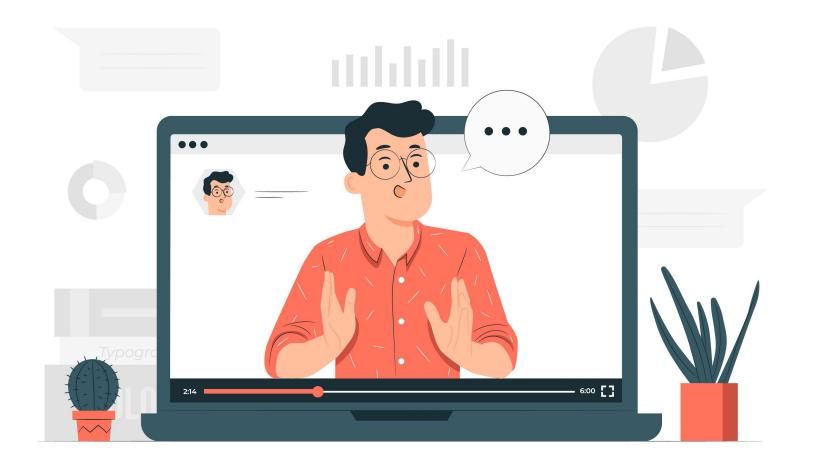
- Paperwork loaded process
- Many user tasks and manual steps
- Different lists to save information
- Non-customers try to defraud MHI Insurance
- Hospitals charge incorrect treatment with the wrong ICD and hospital stays

General Process

- Online form to add customer details and medical bill
- System check details of customer and non-registered treated as potential customers
- Calculation a percentage of the payment according to insurance type
- ICD of medical bill checked automatically
 - Mail send to Checkmedical if the ICD does not relate to the case
 - Incorrect medical bill rejected, and customer and hospital and customer will be informed
- Payment amount calculated according to insurance type and full amount
- Customer and financial department informed about the release of the payment



Demo (Video)



General Process

checkThreshold Hit Policy: First ~									
	When	Then							
	customerClass	Threshold 😝							
	string	double							
1	"Basic"	0.1							
2	"Classic"	0.2							
3	"Middle"	0.4							
4	"Advanced"	0.6							
5	"Premium"	0.8							
6	-	0							
+	-								

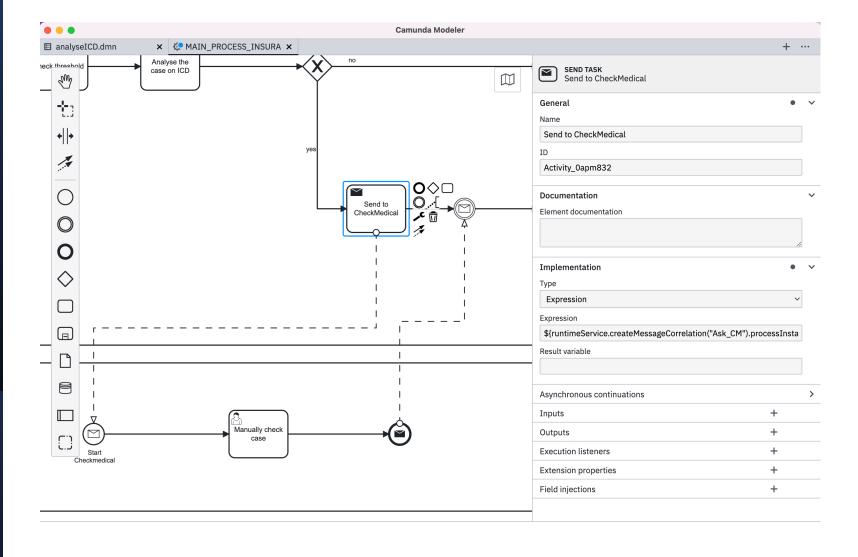
- Customer policy type
- Customer percentage of payment

$\mathbf{n}|w$

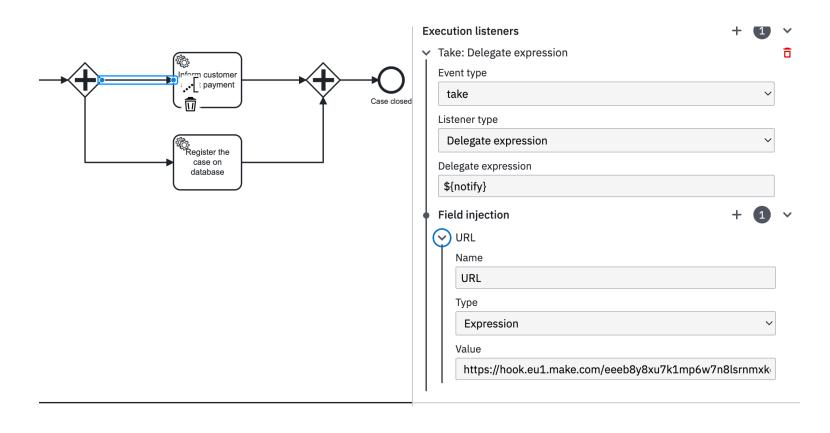
General Process

analy	/seICD	Hit Policy:	First	~				
	When			Then		And		
	IC	CD CODE	•		Explanation		needsCM	•
			string		string			boolean
1	"ICD-T00.0)"			e corresponds to a cat bite-like incident. This bill is ay be payable depending on the insurance policy."	false		
2	"ICD-T00.2	2"			e corresponds to a cat bite-like incident. This bill is ay be payable depending on the insurance policy."	false		
3	"ICD-T00.9)"			e corresponds to a cat bite-like incident. This bill is ay be payable depending on the insurance policy."	false		
4	"ICD-T14.1				e corresponds to a cat bite-like incident. This bill is ay be payable depending on the insurance policy."	false		
5	"ICD-S10.7	711			e corresponds to a cat bite-like incident. This bill is ay be payable depending on the insurance policy."	false		
6	"ICD-S01.2	2"			e corresponds to a cat bite-like incident. This bill is ay be payable depending on the insurance policy."	false		
7	"ICD-S01.7	711			e corresponds to a cat bite-like incident. This bill is ay be payable depending on the insurance policy."	false		
8	"ICD-S01.8	3"			e corresponds to a cat bite-like incident. This bill is ay be payable depending on the insurance policy."	false		
9	"ICD-S01.4	1"			e corresponds to a cat bite-like incident. This bill is ay be payable depending on the insurance policy."	false		
10	"ICD-J10.1				e corresponds to a cat bite-like incident. This bill is ay be payable depending on the insurance policy."	false		
11	"ICD-A05.3	3"			e does not refer to an incident similar to a cat bite. for correctness of billing."	true		
12	"ICD-A05.4	1"			e does not refer to an incident similar to a cat bite. for correctness of billing."	true		
13	"ICD-A07.9)"			e does not refer to an incident similar to a cat bite. for correctness of billing."	true		
14	"ICD-A06.5	5"			e does not refer to an incident similar to a cat bite. for correctness of billing."	true		
15	"ICD-A06.3	3"			e does not refer to an incident similar to a cat bite. for correctness of billing."	true		
16	"ICD-A04.5	5"			e does not refer to an incident similar to a cat bite. for correctness of billing."	true		
17	-					true		

Technical Implementation (Inter-process communication)



Technical Implementation (MAKE<->Camunda)



Technical Implementation

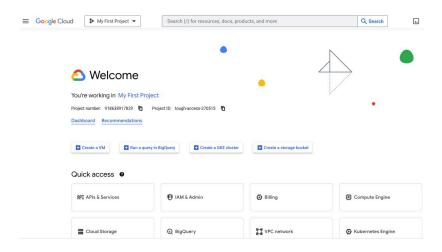






Technical Implementation













Gains for Medical Health Insurance

REFERRED TO CASE:

- Application form with saved information
- Authentication of Customer
- Automated check of ICD on reliability
- Automated calculation of payment amount

GENERAL POINTS:

- Time savings
- More cases handled in a short period

Outlook

- Advancement of current Digitalisation
- Involving more user tasks in automated task
- One database for all information with SQL
- Calculate the final amount by more variables
- Involve partner steps in own process

$\mathsf{n}|w$

Questions



THANKYOU

from Lukasz Kaczmarek, Banujan Ragunathan, Andreas Hetschel and Grégory Witmer