User stories

Number	User Stories	Priority
1	As an employee of NaN Air, I need to be able to deliver and receive back rental cars	А
2	As an employee of NaN Air, I need to be able to check on a vehicle's status and if it's in good enough shape to be rented out	А
3	As Chuck Norris and/or employee of NaN Air I need to be able to register new employees, a list of their information, and their position	А
4	As an employee of NaN Air I need to be able to put together a rental contract	А
5	As an employee of NaN Air I need to be able to find an employees information and edit it	А
6	As an employee of NaN Air I need to be able to register new vehicles into a list of all vehicles	А
7	As an employee of NaN Air I need to be able to list all vehicles according to location and availability	А
8	As an employee of NaN Air I need to be able to list all vehicles according to location and damage status	А
9	As an employee of NaN Air I need to be able to update the damage status of a vehicle	А
10	As an employee of NaN Air I need to be able to register and list all rental contracts	А
11	As an employee of NaN Air I need to be able to update a rental contract to register the return time of a vehicle	А
12	As an employee of NaN Air I need to be able to change the loan time and vehicle of the rental contract	А
13	As an employee of NaN Air I need to be able to invalidate a rental contract	А
14	As an employee of NaN Air I need to be able to register new destinations and list all of them	А
15	As an employee of NaN Air I need to be able to print an invoice based	Α

	on the information on the rental contract	
16	As an employee of NaN Air I need to be able to see and edit how high the taxes are for each type of vehicle and add taxes to new types of vehicles	Bds
17	As an employee of NaN Air I need to be able to see if the customer has the credentials to use certain types of vehicles	В
18	As an employee of NaN Air I need to make sure that the customer's charges are collected so that he will not get charged multiple times	В
19	As an employee of NaN Air I need to be able to make a report of my branch's performance	В

Rent a green Toyota Jimny in Kulusuk.

Jóhann Loftsson wants to go for a day trip to Kulusuuk to buy some kúlusúkkulaði. Jóhann starts by sending an Email to NaN air offices in Reykjavík where employee 69 services him. When Jóhann asks for a very specific car, Mr. 69 is able to see the available cars in Kulusuuk at the click of a button and by filtering by color and model, he finds out that there are two green Jimnies available in Kulusuuk, it is a regular sized car so Jóhann only needs a valid driver's license.

The employee then drafts the contract, he sees that Jóhann is a first time customer and fills in all the needed information about him, the car and the employee that serviced Jóhann (himself), along with the time he will receive the car and need to return it.

Jóhann flies to Kulusuuk that same day and is greeted by employee 88 of Kulusuuk, which dloans him the car he requested. Once that's done, Mr. 88 reports to the system that the customer received his car.

Jóhann returned the car two days later, that's a day later than what the contract said and he got a penalty, resulting in a 40% increase to his bill before tax.

Jóhann's customer ID gets 1 (one) GBP (Good Boy Points) for renting a car for one day and one BBP (Bad Boy Points) for returning the car late.

Mr. 88 informs Jóhann that he can use his GBP later to get better prices and special offers, but also warns him that if he gets more than 50 BBP it will result in a roundhouse kick from the boss.

When Jóhann arrives in Reykjavík, he gets his bill sent to his bank account with a full report of where each part of the cost came from. The bill looks nice and is decorated in a tasteful manner.

Kröfulisti

- 1. Handle contacts
- 2. Register a new car
- 3. Input car info(if it's out for rental or in the shop)
- 4. Make a printable report
- 5. Handle employee information
- 6. Rent cars
- 7. Get maintenance service for cars
- 8. Make a printable bill
- 9. Maintain each destinations status
- 10. maintain companies statistics
- 11. Maintain customer information
- 12. Register a new employee
- 13. Handle car information

Use cases

Nafn	view contract
Number	1
Description	employee finds a contract and views it
Priority	medium
Author	Haraldur Steinar Skúlason
source	1
Precondition	contract has been made and signed
Postcondition	employee has viewed contract and gives info to costumer

Nafn	Make contract
Number	2
Description	employee inputs contract information to create contract
Priority	high

Author	Haraldur Steinar Skúlason
Source	1
Precondition	costumer has decided to rent a car
Postcondition	costumer has rented a car and is now happy

Nafn	Change contract
Number	3
Description	emplyee finds contract and changes it
Priority	medium
Author	Haraldur Steinar Skúlason
Source	1
Precondition	contract has been made and has been requested to be changed
Postcondition	contract has been changed

Nafn	See list of cars
Number	4
Description	look at a list of cars
Priority	low
Author	Haraldur Steinar Skúlason
Source	13
Precondition	employee wants to look at what cars we have
Postcondition	employee has looked at car list

Nafn	Preview rental report
Number	5
Description	employee finds a report of a rental case and view it

Priority	high
Author	Haraldur Steinar Skúlason
Source	4
Precondition	rental car has been returned and reviewed
Postcondition	employee and costumer have now seen the report

Nafn	Preview printable bill
Number	6
Description	employee finds rental case in end of rent and previews printable bill
Priority	high
Author	Haraldur Steinar Skúlason
Source	8
Precondition	car has been returned and report has been looked at
Postcondition	costumer has now seen the bill

Nafn	Change employee information
Number	7
Description	employee or chuck norris finds employee in program and changes its information
Priority	medium
Author	Haraldur Steinar Skúlason
Source	5
Precondition	employee has decided to change information
Postcondition	employee information has been changed

Nafn	Delete employee
Number	8

Description	employee finds quitting employee and deletes it				
Priority	low				
Author	Haraldur Steinar Skúlason				
Source	5				
Precondition	employee has been fired or quit working at the car rental				
Postcondition employee has been deleted from the database					

N. 6	Preview overview of revenue, efficiency and bills for certain
Nafn	period
Number	9
	chuck norris selects a certein period and the program displays
Description	statistics of it
Priority	low
Author	Haraldur Steinar Skúlason
Source	10
	a certein period has passed and chuck norris is curious how he
Precondition	did
Postcondition	the overview has been viewed

Nafn	preview statistics and info of certain rental car service destination				
Number	10				
Description	chuck norris selects a certain location and selects to view statistics and info				
Priority	low				
Author	Haraldur Steinar Skúlason				
Source	11				
Precondition	a certein period has passed and chuck norris is curious how he did				
Postcondition	the overview has been viewed				

Nafn	use loyalty points					
Number	11					
Description	when employee rents out a car and selects if costumer wants to use loyalty points					
Priority	medium					
Author	Haraldur Steinar Skúlason					
Source	12					
Precondition	employee asks costumer if he wants to use loyalty points and costumer says yes					
Postcondition	loyalty points have been used and discount has been used					

Nafn	add new employee				
Number	12				
Description	employee inserts new employee info and new employee is registered				
Priority	high				
Author	Haraldur Steinar Skúlason				
Source	5				
Precondition	new employee has started working at the car rental and has not yet been added to the database				
Postcondition	employee has been added to the database				

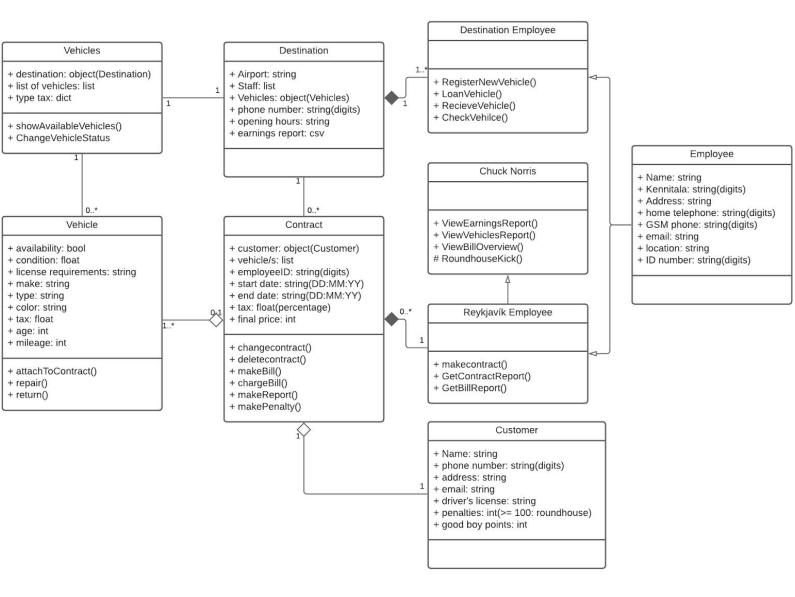
Nafn	add new vehicles
Number	13
Description	employee registrers new vehicles info into data base and new vehicle is added
Priority	high
Author	Haraldur Steinar Skúlason

Source	2
	car rental has recieved a new vehicle and has reviewed its information
Postcondition	car information has been added to the database

Nafn	register if vehicle is in good enough condition to be rented				
Number	14				
Description	employee reviews car on arrival and registers if car is in good enough conditiion to be rented				
Priority	medium				
Author	Haraldur Steinar Skúlason				
Source	3				
Precondition	car has been returned				
Postcondition	employee has reviewed car and can now add it to the report				

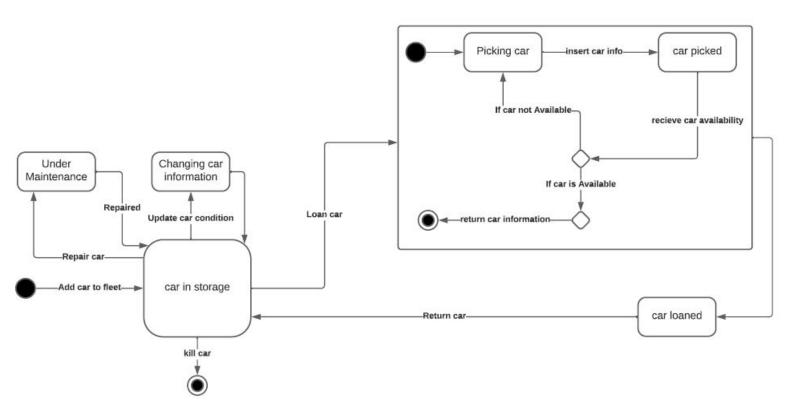
Nafn	see vehicle usage statistics in certein location					
Number	15					
Description	chuck norris selects to check vehicle usage statistics then selects a location and view vehicle usage statistics of that location					
Priority	low					
Author	Haraldur Steinar Skúlason					
Source	13					
Precondition	vehicle usage statistics are in the system and chuck wants to see them					
Postcondition	chuck norris has seen vehicle usage statistics					

Klasarit

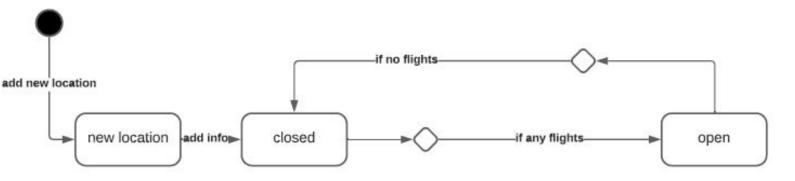


Stöðurit

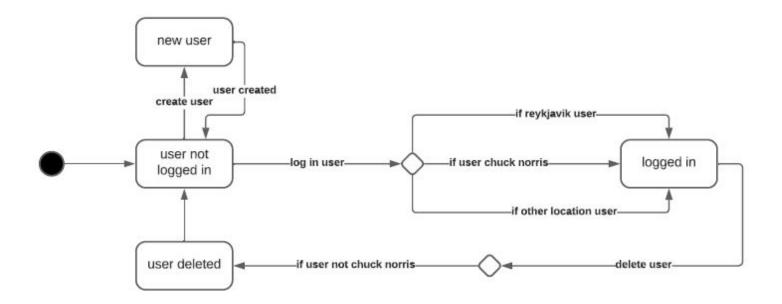
Car states



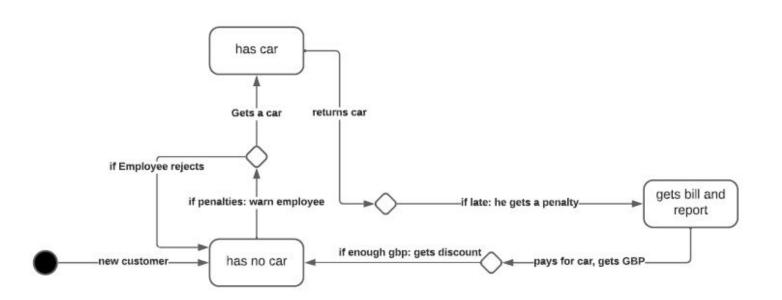
location states



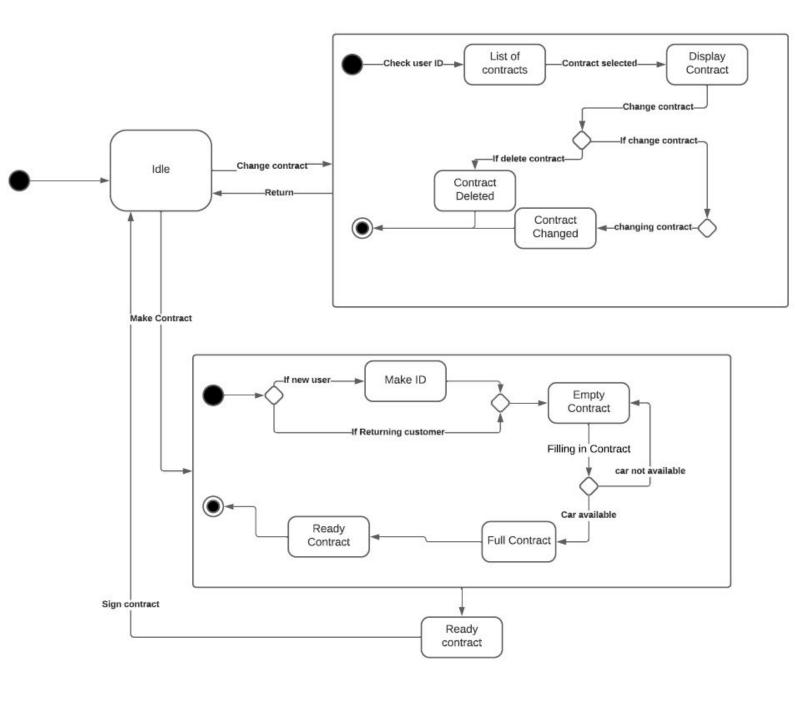
User states



Car renting states



Contract states



User analysis

Employee in Rvk	Employee not in Rvk	Chuck Norris	
Age:18-65 Gender:Both Education:Basic Abilities: None Computer skills: Substantial	Age:18-65 Gender:Both Education:Basic Abilities: None Computer skills: Substantial	Age:80 Gender:Male Education:Basic Abilities: All of them Computer skills: Sufficient	
Main user goals: To make rental contracts, input data in database	Main user goals: Track status for on-location vehicles	Main user goals: Track company overview	
Device: Computer	Device: Computer	Device: Computer	
Location of use: Reykjavík office	Location of use: Any company office(=!Rvk office)	Location of use: Office, home	
When: Whenever software use is needed, likely during usual work hours	When: Whenever software use is needed, likely during usual work hours	When: Whenever software use is needed	
Importance of group:Very important	Importance of group:Very important	Importance of group:Very important	

UI design

Not a Reykjavik employee Menu

Welcome, Employee 88
(1) - Degister new cor
(1) = Register new car
(2) = View car conditions
(3) = View ongoing rentals
(4) = View upcoming rentals
(5) = View all contracts
(r) = return
Type here:
car condition list
Locations : Kulusuk, Nuuk
Select location :
GR 19 854 : Decent
GR 24 543 : Good
JF 297 : Bad
MXU 79 : Ok
select car : GR 19854
(r) = Return
Type here:

"contract						
list				"		
Contract ID	sign date	Valid date	Country	Location	loaned out	returned
#1234	12/24/3030	31/01/3031	Greenland	Kulusuk	24/01/3031	31/01/3031
(r)=Return						
Type here :						

Cars

Car Availability
Locations : Kulusuk, Nuuk
Select location :
GR 19 854 : available
GR 24 543 : not available
JF 297 : in shop
MXU 79 : available
select car : GR 19854
(r)=Return
Type here:

Car Information
Licence plate : GR 19 854
make of car : Toyota
model of car : jimny
Condition of car : good
licence needed : B
car tax : 20%
(r) = return
Type here:
car information
Licence plate : GR 19 854
Register new car
Licence plate :
make of car :
model of car:
Condition of car:
licence needed :
car tax :
(r) = return
(f) = Finish
Tuna hara i
Type here:
Viewing ongoing rentals in Kulusuk
13:30 21/11/2020 - 13:30 25/11/2020 Ríkharður J. GR 24 753
13:30 23/11/2020 - 13:30 28/11/2020 Jóhann L. GR 35 538
(r) = Return
Type here:

RVK employee menu

Welcome, Employee 69
(1) = Create new contract
(2) = View contract
(3) = Print contract
(4) = Print report
(5) = Add new employee
(6) = Change employee
(7) = Delete employee
Type here:

Employee

New Employee
Employee ID: #29
Name : Jonathan Crawford
Kennitala : 0212950202
Address : Bungalow 7
Location : Svalbard
email : JonnyCawCaw@svalbard.com
Home telephone : 581 2345
GSM phone : 765 1234
password : *******
Confirm password : ********
Add employee(y):
Return (r):
Type here :

Change Employee
Employee ID: #29
Name : Jonathan Crawford
change (y / n):
Address : Bungalow 7
change (y / n):
Location : Svalbard
Location . Svalbard
change (y / n):
email : JonnyCawCaw@svalbard.com
change (y / n):
Home telephone : 581 2345
change (y / n):
GSM phone : 765 1234
change (y / n) :
change (y/n).
password: ********
change (y/n):

Delete Employee
Employee ID: #29

Confirm (y / n):

Customer

New customer
Name:
license #:
Phone number :
Address:
Email:
Driver's license type :
(r) = Return
(f) = Finish
Type here:
Confirm new customer
Customer ID #1563
Name of the same to the same
Name: Jóhann Loftsson
Address: Dúfnahólar 10
Email: icehot1@AOL.com
Phone number: 696-9420
Driver's license type: B
IS THIS INFO CORRECT? (y / n):

Contracts

Returning Customer
Driving registration nr :
(r) = Return
(f) = Finish
Type here :
Creating new Contract
(1) = Returning Customer
(2) = New Customer
(r) = Return
Type here:
Creating new Contract
good boy points :
Use Good Boy Points (y / n):
Rental start date :
Rental end date :
Location : [Select]
(r)=Return
(f) = Finish
Type here:

Contract search
Contract ID: #4743
Contract
Contract ID: #4743
Employee ID: #28
license nr: #1563
Location : Kulusuk
Vehicle plate: #GR 35 538
Start date : 23/11/2020
End date : 24/11/2020
Total price: 13,000
(c) = Change contract
(r) = Return
Type here:
Type here :Changing contract
Type here:Changing contract Vehicle plate #GR 35 538
Type here :Changing contract
Type here :Changing contract Vehicle plate #GR 35 538 change (y / n) :
Type here :Changing contract Vehicle plate #GR 35 538 change (y / n) : Start date: 23/11/2020
Type here :Changing contract Vehicle plate #GR 35 538 change (y / n) :
Type here :Changing contract Vehicle plate #GR 35 538 change (y / n) : Start date: 23/11/2020 change (y / n) :
Type here :Changing contract Vehicle plate #GR 35 538 change (y / n) : Start date: 23/11/2020 change (y / n) : End date: 24/11/2020
Type here :Changing contract Vehicle plate #GR 35 538 change (y / n) : Start date: 23/11/2020 change (y / n) :
Type here :Changing contract Vehicle plate #GR 35 538 change (y / n) : Start date: 23/11/2020 change (y / n) : End date: 24/11/2020 change (y / n) :
Type here:Changing contract Vehicle plate #GR 35 538 change (y / n): Start date: 23/11/2020 change (y / n): End date: 24/11/2020 change (y / n): (f) = finish
Type here :Changing contract Vehicle plate #GR 35 538 change (y / n) : Start date: 23/11/2020 change (y / n) : End date: 24/11/2020 change (y / n) :

Finding vehicle

Kulusuk Vehicles
Make:
Model:
Color:
(0) = Random car
(s) = Search
(r) = Return
Type Here:
Search results
Location: Kulusuk
Make: Toyota
Model: Jimny
Color: Green
car tax is 20%
2 MATCHES
1) GR 35 538
2) GR 88 666
(c) = Cancel
(r) = Return
Type Here:

Returning vehicle

car return condition
license plate : #GR 35 538
Contract ID: #4743
start condition : good
end condition : (bad / very good / good / medium)
Preview Report
license nr : #1563
license plate : #GR 35 538
start date : 23/11/2020
end date : 24/11/2020
date returned : 27/11/2020
start condition : very good
end condition : very bad
good boy points earned: 10
(r) = Return
Type here:

location : Kulusuk license nr : #1563 license plate : #GR 35 538 start date : 23/11/2020 end date : 24/11/2020 base price : 10000 Car tax : 3000 Penalty : 4800 Price : 17800 (r) = Return
license plate : #GR 35 538 start date : 23/11/2020 end date : 24/11/2020 base price : 10000 Car tax : 3000 Penalty : 4800 Price : 17800 (r) = Return Type here : Chuck norris menu
start date: 23/11/2020 end date: 24/11/2020 base price: 10000 Car tax: 3000 Penalty: 4800 Price: 17800 (r) = Return
end date : 24/11/2020 base price : 10000 Car tax : 3000 Penalty : 4800 Price : 17800 (r) = Return
base price : 10000 Car tax : 3000 Penalty : 4800 Price : 17800 (r) = Return Type here : Chuck norris menu
Car tax : 3000 Penalty : 4800 Price : 17800 (r) = Return
Penalty: 4800 Price: 17800 (r) = Return Type here: Chuck norris menu
Price: 17800 (r) = Return Type here: Chuck norris menu
(r) = Return
Type here: Chuck norris menu
Type here: Chuck norris menu
Welcome, Chuck Norris (1) = Revenue overview (2) = Vehicle usage overview (3) = Bill overview
(1) = Revenue overview (2) = Vehicle usage overview (3) = Bill overview
(2) = Vehicle usage overview (3) = Bill overview
(3) = Bill overview
(3) = Bill overview
Type here :
Type here :
Revenue overview
From: (DD:MM:YY)
To: (DD:MM:YY)
To: (DD:MM:YY) Office:

(r) = Return
Type here :
Vehicle usage overview
Office:
(r) = Return
Type here :
Bill overview
From: (DD:MM:YY)
To: (DD:MM:YY)
Customer ID:
Status:
(r) = Return
Type here :