VLN1-2020

UML Report

Hópur - 7

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Table of Contents

Project Description 3
Use Cases 4
Class Diagrams 5
Model Class Diagram 5
3 Tier Class Diagram 6
State Diagram 7
Rental Contract 7
Staff 8
Vehicles 9
User Group Analysis 10
Requirement List 11
Wireframes 13
Main Menu 13
Vehicles 14
Customer 17
Contracts 19
Reports 23
Destinations 29
Employees 32

Project Description

Lágmarkskröfur til kerfisins sem búa á til er að það skal geta skráð og kallað fram upplýsingar um leigusamninga á milli NaN Air og viðskiptavina. Til að það sé hægt þarf því að vera hægt að skrá upplýsingar um samninginn sjálfann, viðskiptavininn, farartækið sem samið eru um að leigja svo og hvaða starfsmaður bjó til samninginn. Lágmarkskröfur eru allar A kröfur hér að neðan og til þess að standast námskeiðið þarf að uppfylla lágmarkskröfur.

Viðbætur, sjá B kröfur, við þessa lágmarksvirkni eru ýmsar. Til dæmis þarf að halda utanum fleiri tegundir farartækja, geta haldið þjónustu bók fyrir hvert farartæki, geta búið til mánaðarlega reikninga og búa til skýrslur/samantektir.

Einnig er í boði að skilgreina eigin viðbótarkröfur, eða svo kallaðar C kröfur, og eru gefnar hugmyndir að nokkrum slíkum hér að neðan. Við viljum samt taka sérstaklega fram að ykkur verður talið til framdráttar að útfæra kröfur í lægri forgang nema allir aðrar kröfur séu útfærðar með sóma fyrst.

Kerfið skal vera hannað og útfært sem þriggja laga högun. Í slíku kerfi er gerð krafa um að viðmótið, viðskiptagreindin og gagnageymslan séu fyllilega aðskilin með skýrum viðmótum á milli laga. Hafa skal í huga að þið eigið að notast við klasa og hlutbundna forritun (e. object oriented programming).

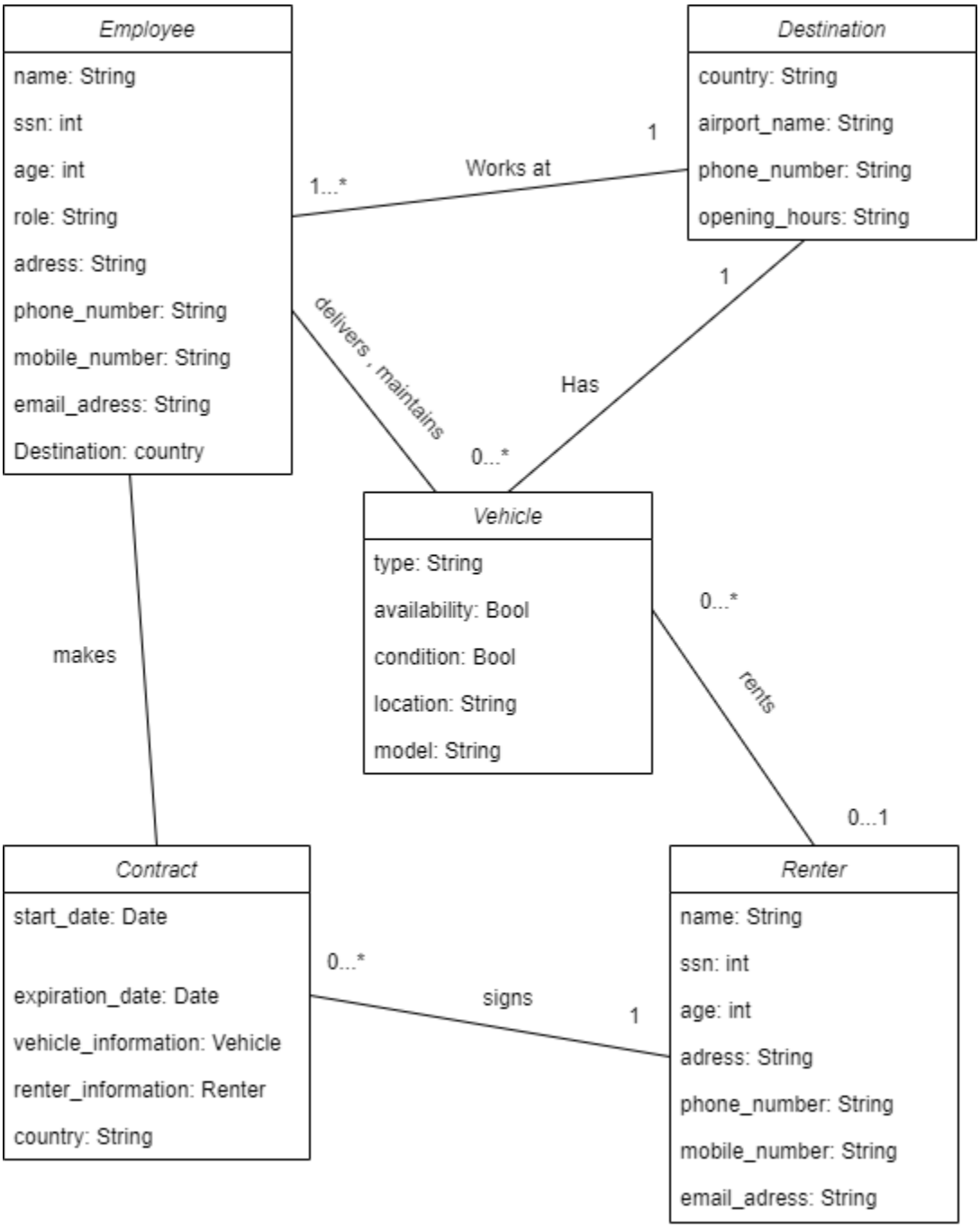
Viðmótið skal vera í textaham eða TUI (Text-based User Interface) og skal forritið allt vera skrifað í Python. Gagnalagið skal vera útfært í textaskrám (.txt eða .csv) og má notast við þær stoðgrindur sem Python býður upp á fyrir slíkt.

Þið munið þurfa að gera og skila eftirfarandi afurðum:
- Notkunartilvikum (e. Use cases).
- Klasariti (e. Class diagram).
- Stöðuritum (e. State diagram), eftir því sem við á.
- Notendahópagreiningu.
- Útlitshönnun (e. Wireframe) sett fram sem “happy path”.
- Kröfulista til viðmóts, með virknikröfum og nytsemis- og notendaupplifunarkröfum.

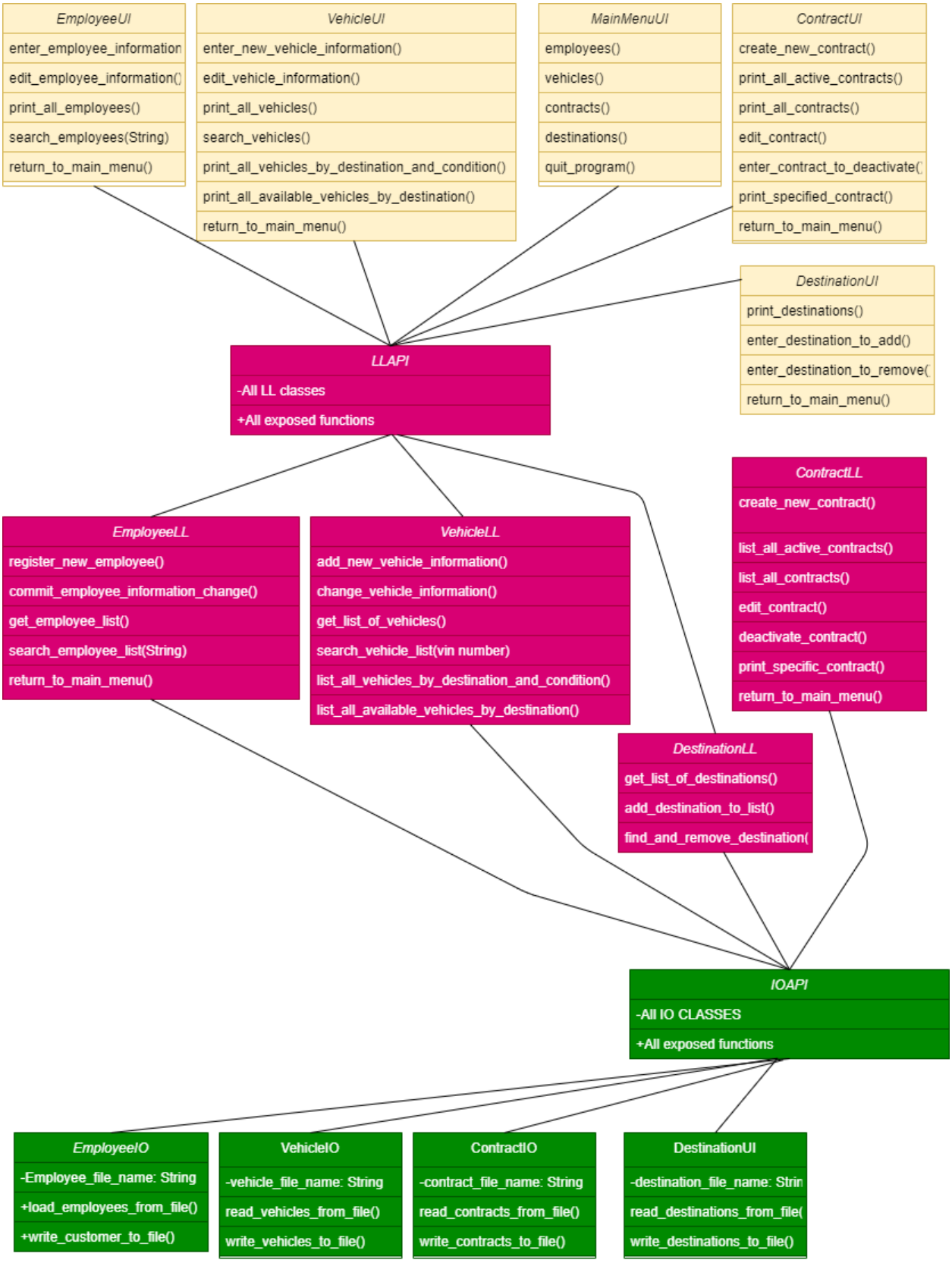
Use Cases

Class Diagrams

Model Class Diagram

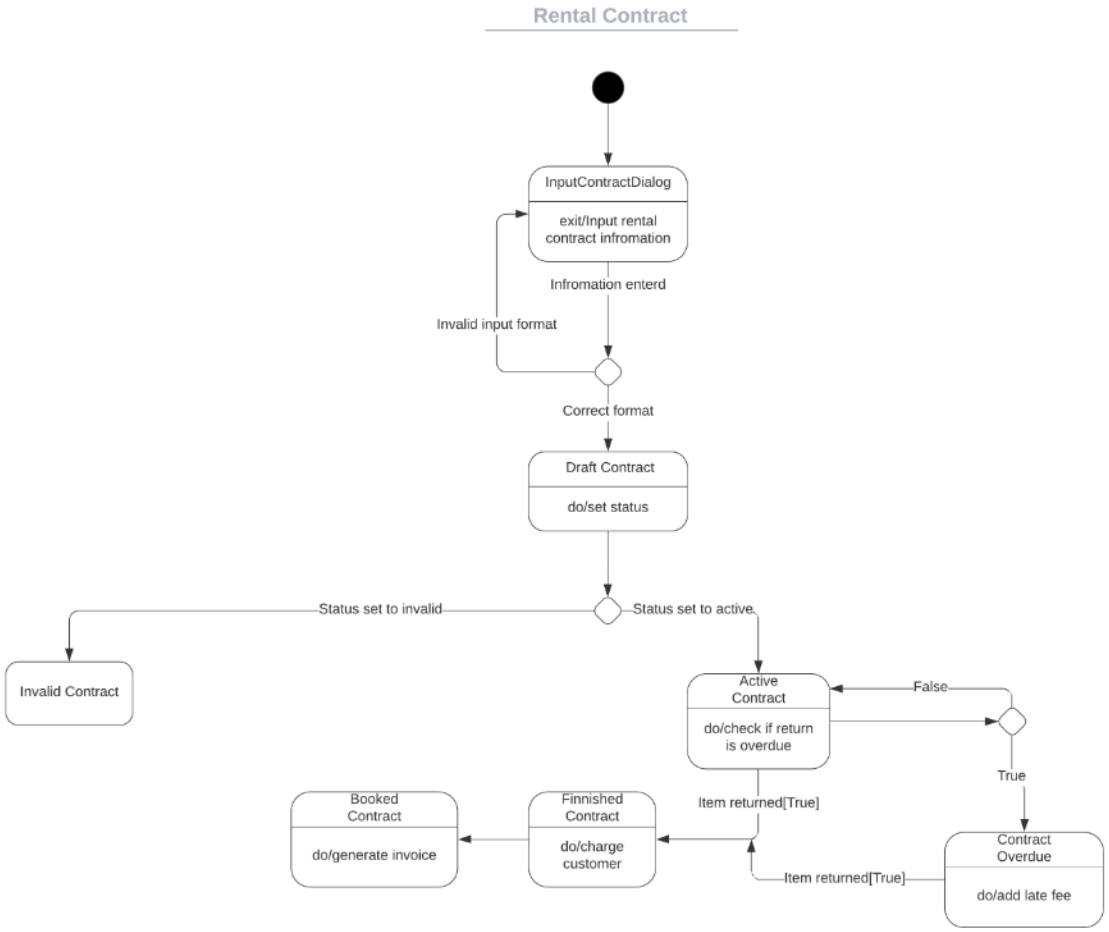


3 Tier Class Diagram

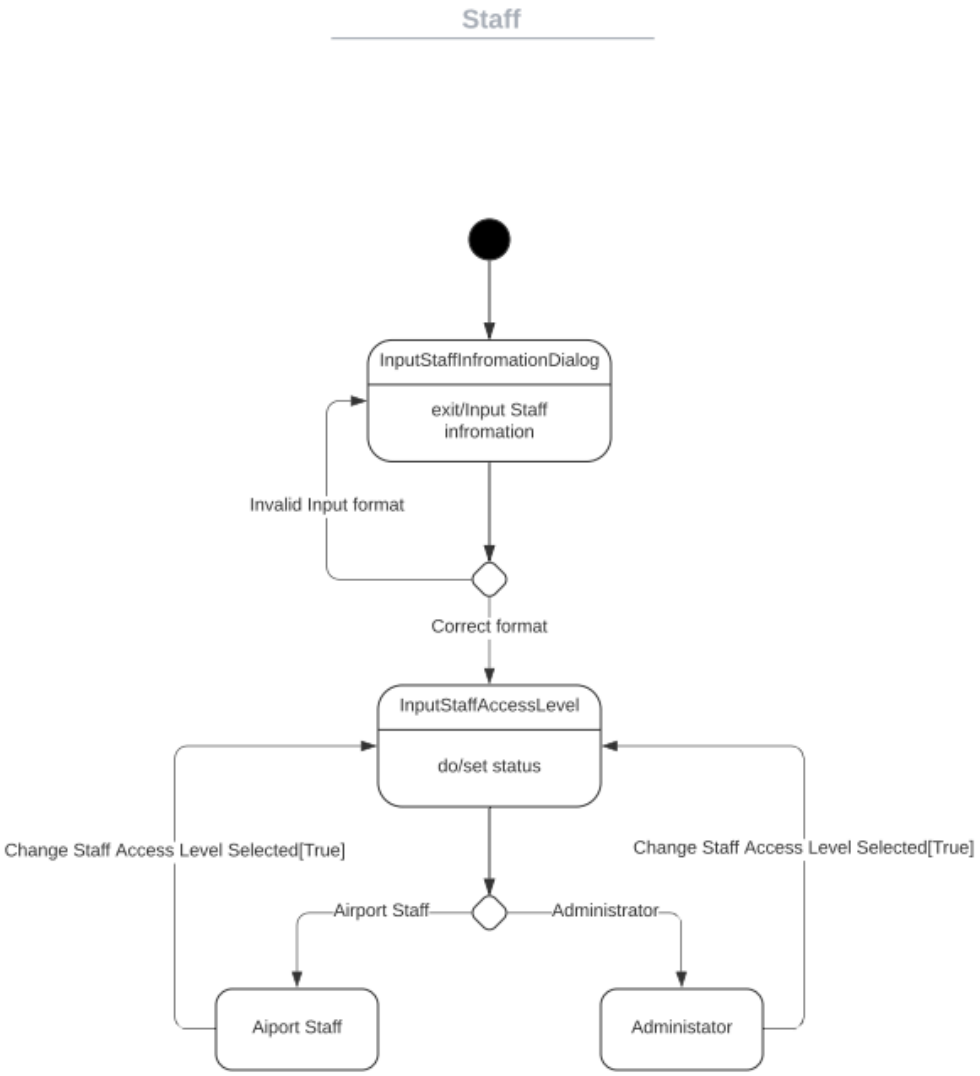


State Diagram

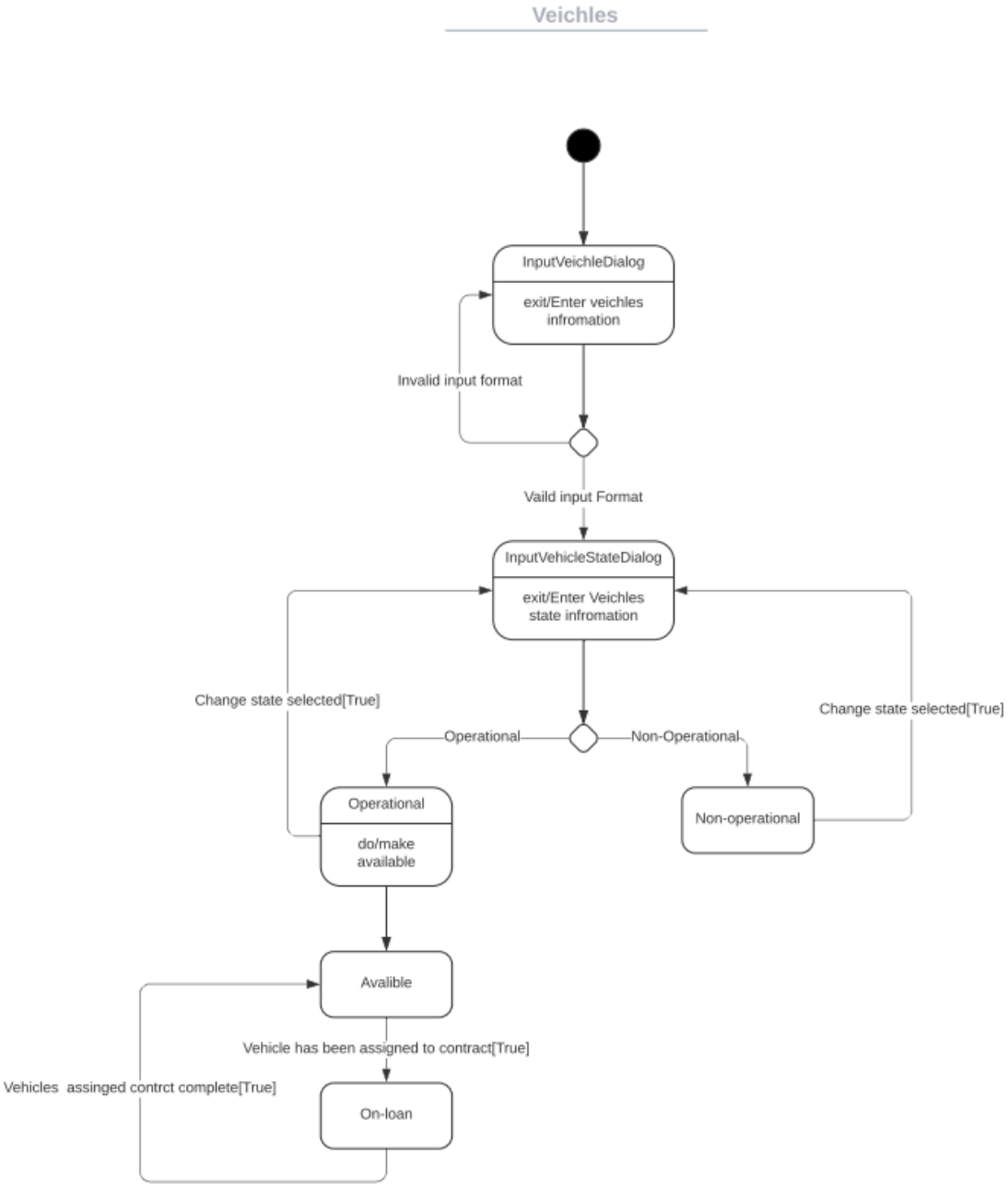
Rental Contract



Staff


Staff
InputStaffInfromationDialog
exit/Input Staff infromation
Invalid Input format
Correct format
InputStaffAccessLevel
do/set status
Change Staff Access Level Selected[True]
Change Staff Access Level Selected[True]
Airport Staff
Administrator
Aiport Staff
Administator

Vehicles


Veichles
InputVeichleDialog
exit/Enter veichles infromation
Invalid input format
Vaild input Format
InputVehicleStateDialog
exit/Enter Veichles state infromation
Change state selected[True]
Operational
Non-Operational
Change state selected[True]
Operational
do/make available
Non-operational
Avalible
Vehicle has been assigned to contract[True]
Vehicles assinged contrct complete[True]
On-loan

User Group Analysis

Greining Notendahópa / User Group Analysis

Name of the user group	Airport staff	Office staff	Administrator
WHO: background			
Age	17-70	17 - 70	18 - 70
Gender	All genders	All genders	All genders
Education	Various	Various	Various
Abilities, disabilities	Nothing special	Nothing special	Nothing special
General computer skills	Very good	Very good	Very good
Number of users	c.a 1500	c.a 100	c.a 150
WHY: main user goals	Be able to review the schedule of the departure and arrival, be able to check the contract of renting vehicle and availability of the vehicles	Be able to create/update the reports, contracts and rates.	To have access for all necessary informations
WHAT:Technical environment	Technical environment varies, but they usually have good equipment and internet connection.	Technical environment varies, but they usually have good equipment (e.g ipad, phone/ laptop) and internet connection.	Technical environment varies, but they usually have good equipment (e.g ipad, phone/ laptop) and internet connection.
WHERE: The usage environment	it can be accessed mostly everywhere with internet connection (computer, mobile , etc) and browser.	it can be accessed mostly everywhere with internet connection (computer, mobile , etc) and browser.	it can be accessed mostly everywhere with internet connection (computer, mobile , etc) and browser.
WHEN:Usage of the software	All year around	All year around	All year around
how often	everyday	everyday	everyday
for how long	for about 3 - 4 hours	for about 1 to 2 hours	for about 1 to 2 hours
user skills	The user will get skilled because he/she uses the software frequently.	The user will get skilled because he/she uses the software frequently.	The user will get skilled because he/she uses the software frequently.
HVERSU: Mikilvægur er hópurinn?/ HOW: Important is this user group?	MOST IMPORTANT	MOST IMPORTANT	MOST IMPORTANT

VLN1-2020

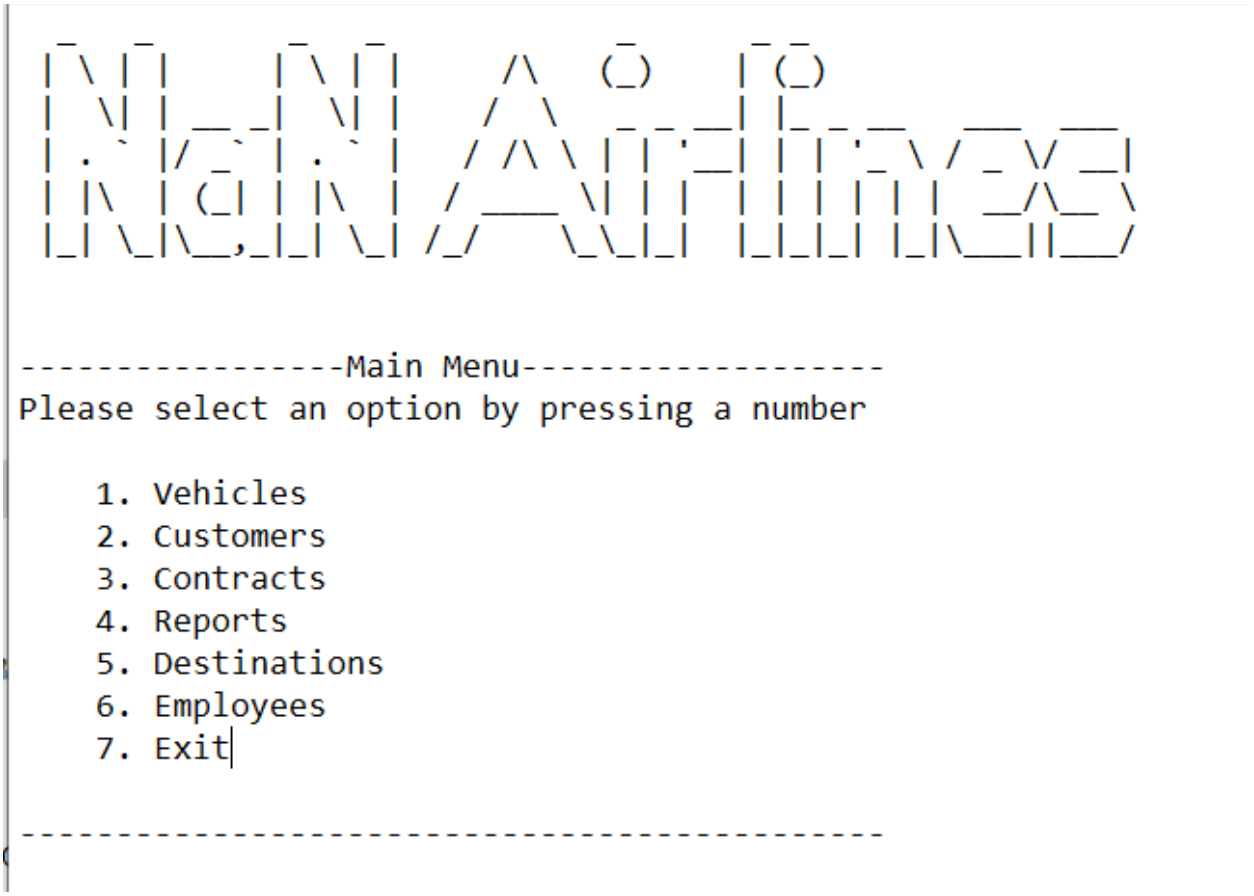
Requirement List

No.	Category	Name	User group	Priority (A/B/C)	Additional Info
1	Staff	The program should allow users to register new employees information	admin	A	use case 1
2	Staff	The program should allow users to review the information of the employees	all users	A	use case 2
3	Staff	The program should allow users to edit/update employees data	all users	A	use case 3 & 17
4	Staff	The program should allow users to delete / remove employees data	admin	A	
5	Vehicle	The program should allow users to register new vehicles	all users	A	use case 4
6	Vehicle	The program should allow users to review the information of the vehicles	all users	A	use case 5 & 6
7	Vehicle	The program should allow users to delete / remove information of vehicles	all users	A	
8	Vehicle	The program should allow users to have overview of vehicles' availability	all users	A	
9	Contract	The program should allow users to create a new contract	office staff & admin	A	use case 7
10	Contract	The program should allow users to register new customer (renters)	all users	A	use case 8
11	Contract	The program should allow users to review the contract	all users	A	use case 9 ,10 & 16
12	Contract	The program should allow users to edit/update contract information such as contract period, vehicles	office staff & admin	A	use case 11 & 12
13	Contract	The program should allow users to reject / delete the contract	admin	A	use case 13
14	Destination	The program should allow users to create new destination	admin	A	use case 14
15	Destination	The program should allow users to edit/review destinations	admin	A	use case 15
16	Destination	The program should allow users to delete / remove destinations	admin	A	
17	Prices	The program should allow users to register/update/review the rate list	office staff & admin	B	use case 18,19 & 20
18	Permission	The program should allow users to allow the permission	admin	B	use case 23

	roles	updates for Reykjavik employees			
19	Permission roles	The program should allow users to allow the permission updates for airport employees	admin	B	use case 24
20	Invoices	The program should allow users to fine for late return of vehicles	all users	B	use case 21
21	Report	The program should allow users to apply filter for certain information	all users	B	the filter can be by type, customers or etc.
22	Report	The program should allow users to have overview of revenue report	office staff & admin	B	use case 25 & 28
23	Report	The program should allow users to have overview of invoices sent	office staff & admin	B	use case 28
24	Report	The program should allow users to have overview of utilization vehicles for all destinations	office staff & admin	B	use case 27
25	Customer	The program should allow users to categorize the customers such as VIP/ late retuner	all users	C	it can use for future references and apply special activities for the VIP, e.g. use case 32
26	Customer	The program should allow users to give discount for VIP customers	admin	C	use case 31

Wireframes

Main Menu



Vehicles

```
----------------Main Menu-----------------
Please select an option by pressing a number

    1. Vehicles                                                          *A-00
    2. Customers
    3. Contracts
    4. Reports
    5. Destinations
    6. Employees
    7. Exit

-------------------------------------------

-----------------Vehicles-----------------    *A-00
Please select an option by pressing a number

    1. Create new vehicle
    2. Select vehicle
    3. Check availability
    4. Return vehicle
    5. View all vehicles
    6. Main Menu

-------------------------------------------

-------------Create new vehicle-------------   *A-01
Please enter the following information to
register a new vehicle

    1.Vehicle brand
    2.Registation number
    3.Type (SUV,Sedan,ect)

Enter Brand Name:
Enter Registration Number:
Enter Type:
-------------------------------------------

--------------State of Vehicle--------------   *A-01-01
Please specify if vehicle is currently in
operational condition if not please mark it
for repair

    1. Operational
    2. Non-Operational

Enter state of vehicle:
-------------------------------------------
```

```
------------Finalise Registration-----------   *A-01-02
You are about to add the following to the
database are you sure you would like to
continue ?

Registration Number      Brand         Type
=============================================
 SV-241                 Toyota       Sedan


    1.Yes / Continue
    2.No / Cancel

 Enter Choice:
---------------------------------------------

-----------------Select vehicle-------------- *A-02

Number     Registration number    Rate      Brand        Type            State
=================================================================================
1.         TJ-921                 120       Mazda         SUV         Operational
2.         LM-190                 99        Toyata        Sedan       Non-Operational


Enter Number of the vehicle you wish to select:
---------------------------------------------

-----------------Edit,Delete------------------- *A-02-01
Selected:

Number   Registration number       Rate     Brand       Type     State
=========================================================================
1.       TJ-921                   120      Mazda       SUV      Operational

Select Option:

        1.Edit
        2.Delete
        3.Cancal

Enter Option:
---------------------------------------------

-----------------Edit------------------        *A-02-02

        1.Registration number
        3.Brand
        4.Type
        5.State
        6.Exit

Choose Paramater to change:
-----------------------------------------
```

```
-----------------Delete-------------------       *A-02-03
You are about to remove selected item from
the database.

Number   Registration number       Rate     Brand       Type     State
================================================================================
1.       TJ-921                   120      Mazda       SUV      Operational

        1.Yes // continue
        2.No  // exit

Are you sure you wish to continue:
-------------------------------------------

------------Check availability--------------- *A-03

Number   Registration number       Rate     Brand       Type     Availability
================================================================================
1.        TJ-921                            Mazda        SUV       Available
2.        TJ-924                            Lexus        SUV       On-Loan
3.        LM-190                            Toyata       Sedan     Available


        1. Exit

-------------------------------------------

----------------Return vehicle--------------- *A-04

Enter vehicle registration you wish to return:
-------------------------------------------

----------------Return vehicle--------------- *A-04-01

Number   Registration number       Rate     Brand       Type     Return data      Late fee
=============================================================================================
1.       TJ-921                   120      Mazda       SUV      20-10-2020       Applicable

        1.Mark as paid
        2.Waive late fee
        3.Exit

Enter Option:
-------------------------------------------

----------------View all vehicles------------ *A-05

Number   Registration number       Rate     Brand       Type
=============================================================
1.       TJ-921                   120      Mazda        SUV
2.       TJ-924                   230      Lexus        SUV
3.       LM-190                   105      Toyata       Sedan

        1.Exit

Enter Option:
-------------------------------------------
```

Customer

```
-----------------Main Menu-------------------
Please select an option by pressing a number

    1. Vehicles
    2. Customers                                *B-00
    3. Contracts
    4. Reports
    5. Destinations
    6. Employees
    7. Exit

-----------------------------------------------

-----------------Customers-------------------   *B-00
Please select an option by pressing a number

    1. Create new customer                      *B-01
    2. Search customer                          *B-02
    3. View all customers                       *B-03
    4. Main Menu                                *B-04

-----------------------------------------------

--------------New Customer-------------------   *B-01
Customer Name:
SSN Number:
Phone Number:
Mobile Number:
E-mail Address:
Address:
Country:
Credit Card Number:
Status:

New customer is registered.
-----------------------------------------------

--------------Search Customers---------------   *B-02
Please select an option by pressing a number

    1. Search by name
    2. Search by SSN number

-----------------------------------------------
```

VLN1-2020

```
--------------Search Customers---------------   *B-02-01
Input the name:

1 match found.

Customer Name       SSN             Phone nr.       Mobile nr.       E-mail address        Address               Country of residence       Credit Card nr.         Status
=============================================================================================================================================================================
Jón Steinsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx         email@email.com       Street 66, 103 City     Country                  xxxxxxxxxxxxxx        VIP

    1. Edit customer information.
    2. Delete customer information.
    3. Return.
Enter your choice:
---------------------------------------------

--------------Search Customers---------------   *B-02-02
Input the SSN number :

1 match found.

Customer Name       SSN             Phone nr.       Mobile nr.       E-mail address        Address               Country of residence       Credit Card nr.         Status
=============================================================================================================================================================================
Jón Steinsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx         email@email.com       Street 66, 103 City     Country                  xxxxxxxxxxxxxx        VIP

    1. Edit customer information.
    2. Delete customer information.
    3. Return.
Enter your choice:
---------------------------------------------

-----------------Edit customer---------------   *B-02-01-01

Customer Name       SSN             Phone nr.       Mobile nr.       E-mail address        Address               Country of residence       Credit Card nr.         Status
=============================================================================================================================================================================
Jón Steinsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx         email@email.com       Street 66, 103 City     Country                  xxxxxxxxxxxxxx        VIP

    1. Name.
    2. SSN.
    3. Phone nr.
    4. Mobile nr.
    5. E-mail address.
    6. Address.
    7. Country of residence
    8. Credit Card nr.
    9. Status.

Enter your choice:
Name successfully changed.

Customer Name       SSN             Phone nr.       Mobile nr.       E-mail address        Address               Country of residence       Credit Card nr.         Status
=============================================================================================================================================================================
Jón Jónsson         xxxxxx-xxxx     xxx-xxxx        xxx-xxxx         email@email.com       Street 66, 103 City     Country                  xxxxxxxxxxxxxx        VIP

---------------------------------------------

--------Delete customer information---------    *B-02-01-02

Customer Name       SSN             Phone nr.       Mobile nr.       E-mail address        Address               Country of residence       Credit Card nr.         Status
=============================================================================================================================================================================
Jón Jónsson         xxxxxx-xxxx     xxx-xxxx        xxx-xxxx         email@email.com       Street 66, 103 City     Country                  xxxxxxxxxxxxxx        VIP

    Are you sure you want to delete this customer information (y/n)? :

Customer infromation successfully deleted.

---------------------------------------------


--------View customer information---------  *B-03

Customer Name       SSN             Phone nr.       Mobile nr.       E-mail address        Address               Country of residence       Credit Card nr.         Status
=============================================================================================================================================================================
Jón Jónsson         xxxxxx-xxxx     xxx-xxxx        xxx-xxxx         email@email.com       Street 66, 103 City     Country                  xxxxxxxxxxxxxx        VIP
Jón Jónsson         xxxxxx-xxxx     xxx-xxxx        xxx-xxxx         email@email.com       Street 66, 103 City     Country                  xxxxxxxxxxxxxx        VIP
Jón Jónsson         xxxxxx-xxxx     xxx-xxxx        xxx-xxxx         email@email.com       Street 66, 103 City     Country                  xxxxxxxxxxxxxx        VIP
Jón Jónsson         xxxxxx-xxxx     xxx-xxxx        xxx-xxxx         email@email.com       Street 66, 103 City     Country                  xxxxxxxxxxxxxx        VIP

---------------------------------------------
```

Contracts

```
----------------Main Menu-------------------
Please select an option by pressing a number

    1. Vehicles
    2. Customers
    3. Contracts                                          *C-00
    4. Reports
    5. Destinations
    6. Employees
    7. Exit

-----------------------------------------

----------------Contracts-------------------              *C-00
Please select an option by entering a number.

    1. Create new contract                                *C-01
    2. Search contracts                                   *C-02
    3. Print all contracts                                *C-03
    4. Print all active contracts                         *C-04
    5. View contract                                      *C-05
    6. Main Menu

-----------------------------------------

----------------New contract----------------              *C-01
Customer name:
Vehicle identification number:
Start date (dd.mm.yy hh:mm):
End date (dd.mm.yy hh:mm):
Country:

Contract successfully created.
-----------------------------------------

----------------Search contracts------------              *C-02
Select search type by entering a number.

    1. Search by name.                                    *C-02-01
    2. Search by date.                                    *C-02-02

-----------------------------------------

----------------Search contracts------------              *C-02-01
input a name to search for:

2 matches found.

Contract ID      Customer Name          Vehicle     Rate      Start Date        End Date        Country
=============================================================================================================
AAA01            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
AAA02            Jón Steinsson          VIN NR       99       01.06.21 13:45    01.07.21 19:45  Svalbard
```

```
-----------------Search contracts------------                    *C-02-02
Input start date:
Input end date:

2 matches found.

Contract ID      Customer Name          Vehicle     Rate      Start Date        End Date        Country
=============================================================================================================
AAA01            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
AAA02            Gísli Steinsson        VIN NR       99       01.06.21 13:45    01.07.21 19:45  Svalbard

-------------------------------------------

-----------------All contracts--------------                    *C-03

Contract ID      Customer Name          Vehicle     Rate      Start Date        End Date        Country
=============================================================================================================
AAA01            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
AAA02            Jón Steinsson          VIN NR       99       01.06.21 13:45    01.07.21 19:45  Svalbard
AAA03            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
AAA04            Jón Steinsson          VIN NR       99       01.06.21 13:45    01.07.21 19:45  Svalbard
AAA05            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
AAA06            Jón Steinsson          VIN NR       99       01.06.21 13:45    01.07.21 19:45  Svalbard
AAA07            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
AAA08            Jón Steinsson          VIN NR       99       01.06.21 13:45    01.07.21 19:45  Svalbard
AAA09            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
AAA10            Jón Steinsson          VIN NR       99       01.06.21 13:45    01.07.21 19:45  Svalbard
AAA11            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
AAA12            Jón Steinsson          VIN NR       99       01.06.21 13:45    01.07.21 19:45  Svalbard
-------------------------------------------

-----------------Active contracts-----------                    *C-04

Contract ID      Customer Name          Vehicle     Rate      Start Date        End Date        Country
=============================================================================================================
AAA01            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
AAA02            Jón Steinsson          VIN NR       99       01.06.21 13:45    01.07.21 19:45  Svalbard
AAA03            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
AAA04            Jón Steinsson          VIN NR       99       01.06.21 13:45    01.07.21 19:45  Svalbard
AAA05            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
AAA06            Jón Steinsson          VIN NR       99       01.06.21 13:45    01.07.21 19:45  Svalbard
AAA07            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard
-------------------------------------------
```

```
-----------------View contract--------------                      *C-05
Enter contract identification number:

Contract ID      Customer Name          Vehicle     Rate      Start Date        End Date        Country
=============================================================================================================
AAA01            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard

    1. Edit contract information.
    2. Annull contract.
    3. Delete contract.
    4. View customer information.
    5. View another contract.
    6. Return.
Enter your choice:
-----------------------------------------

-----------------Edit contract-------------                      *C-05-01

Contract ID      Customer Name          Vehicle     Rate      Start Date        End Date        Country
=============================================================================================================
AAA01            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard

    1. Name.
    2. Vehicle.
    3. Date.
    4. Country.
    5. Cancel.

Enter your choice:
Name successfully changed.

Contract ID      Customer Name          Vehicle     Rate      Start Date        End Date        Country
=============================================================================================================
AAA01            Jón Jónsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45    Svalbard

-----------------------------------------

-----------------Anull contract------------                      *C-05-02

Contract ID      Customer Name          Vehicle     Rate      Start Date        End Date        Country
=============================================================================================================
AAA01            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard

    Are you sure you want to annull this contract (y/n)? :

Contract successfully annulled.

-----------------------------------------
```

```
-----------------Delete contract-----------                    *C-05-03

Contract ID      Customer Name          Vehicle     Rate      Start Date        End Date        Country
=============================================================================================================
AAA01            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard

    Are you sure you want to delete this contract (y/n)? :

Contract successfully deleted.

-------------------------------------------

-----------------View customer information-                    *C-05-04

Customer Name       SSN             Phone nr.       Mobile nr.        E-mail adress         Address
      Country of residence
=============================================================================================================
============================
Jón Steinsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx          email@email.com       Street 66, 103
City     Country

-------------------------------------------

-----------------View contract--------------                    *C-05-05
Enter contract identification number:

Contract ID      Customer Name          Vehicle     Rate      Start Date        End Date        Country
=============================================================================================================
AAA01            Jón Steinsson          VIN NR       100      26.11.20 17:45    28.11.20 18:45  Svalbard

    1. Edit contract information.
    2. Annull contract.
    3. Delete contract.
    4. View customer information.
    5. View another contract.
    6. Return.
Enter your choice:
-------------------------------------------
```

Reports

```
-----------------Main Menu-------------------
Please select an option by pressing a number

    1. Vehicles
    2. Customers
    3. Contracts
    4. Reports                                                    *D-00
    5. Destinations
    6. Employees
    7. Exit

-----------------------------------------------


------------------Reports--------------------                    *D-00
Please select a an option by pressing a number

    1. Revenue overview                                           *D-01
    2. Revenue by destination                                     *D-02
    3. Revenue per employee                                       *D-03
    3. Vehicle utilization                                        *D-04
    4. Invoices by customers                                      *D-05
    7. Exit

-----------------------------------------------
```

```
-----------------Revenue Overview-----------                        *D-01-01
Please select a time period:

Start date (dd.mm.yy): 01.01.2019
End date (dd.mm.yy): 31.12.2019

Printing......
-------------------------------------------

Revenue report
Time period: 01.01.2019 - 31.12.2019

Month               Revenues
===========================================
January             $28,000.00
February            $14,000.00
March               $13,000.00
April               $17,000.00
May                 $19,000.00
June                $29,000.00
July                $26,000.00
August              $28,000.00
September           $16,000.00
October             $15,000.00
November            $14,000.00
December            $31,000.00

Total               $250,000.00
-------------------------------------------

What would you like to do?                                          *D-01-02

    1. Print report
    2. Select new time period
    3. Back

-------------------------------------------
```

```
------------Revenue by destination------------                          *D-02-01
Please select a time period:

    Start date (dd.mm.yy): 01.01.2019
    End date (dd.mm.yy): 31.12.2019

-----------------------------------------

Revenue report
Time period: 01.06.2019 - 01.09.2019

Destination            Month                Revenues
================================================
Reykjavík
                     June                 $29,000.00
                     July                 $26,000.00
                     August               $28,000.00

                     Total                $250,000.00
Nuuk
                     June                 $29,000.00
                     July                 $26,000.00
                     August               $28,000.00

                     Total                $250,000.00
Kulusuk
                     June                 $29,000.00
                     July                 $26,000.00
                     August               $28,000.00

                     Total                $250,000.00
================================================
Total Revenue:                            $750,000.00

-----------------------------------------
What would you like to do?                                              *D-02-02

    1. Print report
    2. Select new time period
    3. Back
```

```
------------Revenue by Employee------------                          *D-03-01
Please select a time period:

    Start date (dd.mm.yy): 01.01.2019
    End date (dd.mm.yy): 31.12.2019

-------------------------------------------

Revenue report
Time period: 01.06.2019 - 01.09.2019

Employee            Month               Revenues
================================================
Ragnar
                    June                $29,000.00
                    July                $26,000.00
                    August              $28,000.00

                    Total               $250,000.00
Callista
                    June                $29,000.00
                    July                $26,000.00
                    August              $28,000.00

                    Total               $250,000.00
Fannar
                    June                $29,000.00
                    July                $26,000.00
                    August              $28,000.00

                    Total               $250,000.00
================================================
Total Revenue:                          $750,000.00

-------------------------------------------
What would you like to do?                                           *D-03-02

    1. Print report
    2. Select new time period
    3. Back
```

```
------------Vehicle utilization------------                          *D-04-01
Please select destination:

    1. All Destinations
    2. Reykjavík
    3. Nuuk
    4. Kulusuk
    5. Þórshöfn
    6. Tingwall
    7. Longyerbyen

-------------------------------------------

Vehicle utilization report

Destination     Number   Registration number       Rate     Brand       Type     Utilization
=============================================================================================
Reykjavík
                1        TJ-921                            Mazda       SUV       78%
                2        TJ-924                            Lexus       SUV       67%
                3        LM-190                            Toyata      Sedan     88%
Nuuk
                1        TJ-921                            Mazda       SUV       98%
                2        TJ-924                            Lexus       SUV       44%
                3        LM-190                            Toyata      Sedan     56%
Kulusuk
                1        TJ-921                            Mazda       SUV       69%
                2        TJ-924                            Lexus       SUV       77%
                3        LM-190                            Toyata      Sedan     92%

-------------------------------------------
What would you like to do?                                          *D-04-02

    1. Print report
    2. Select new time period
    3. Back
```

VLN1-2020

```
------------Invoices by customers-----------                          *D-05-01
Please select a time period:

    Start date (dd.mm.yy): 01.01.2019
    End date (dd.mm.yy): 31.12.2019

Please select destination:

    1. All Destinations
    2. Reykjavík
    3. Nuuk
    4. Kulusuk
    5. Þórshöfn
    6. Tingwall
    7. Longyerbyen

--------------------------------------------

Customer Invoices
Destination: All Destinations

Customer Name       SSN                 Registration number     Destination         Amount Due          Status
=================================================================================================================
Arnar Jónsson       xxxxxx-xxxx         TJ-921                  Kulusuk             $450.00             Paid
Brynjar Jónsson     xxxxxx-xxxx         TJ-921                  Reykjavik           $450.00             Due
Jón Jónsson         xxxxxx-xxxx         TJ-921                  Nuuk                $450.00             Due
Jón Jónsson         xxxxxx-xxxx         TJ-921                  Tingwall            $450.00             Cancelled
=================================================================================================================
                                                                        Total       $1,800.00

---------------------------------------------
What would you like to do?                                          *D-05-02

    1. Print report
    2. Select new time period
    3. Back
```

Destinations

```
-----------------Main Menu-------------------
Please select an option by pressing a number

    1. Vehicles
    2. Customers
    3. Contracts
    4. Reports
    5. Destinations                          *E-00
    6. Employees
    7. Exit

-----------------------------------------

-----------------Destinations------------------ *E-00
Please select an option by pressing a number

    1. Create new destination
    2. Select destination
    3. View all destinations
    4. Main Menu

-----------------------------------------

--------------New destination----------------   *E-01
City:
Country:
Airport:
Phone number:
Opening time:
Closing time:

New destination is registered.
-----------------------------------------

--------------Select destination-----------    *E-02
Input city:

2 matches found.

City    Country      Airport    Phone nr.   Opening time   Closing time
=============================================================================
RVK        IS          KEF        VIN NR      24/7              -
RVK        IS          KEF        VIN NR      24/7              -

-----------------------------------------
```

```
---------------Select destination-----------    *E-02
Input city:

2 matches found.

City    Country      Airport    Phone nr.   Opening time   Closing time
================================================================================
RVK        IS          KEF        VIN NR      24/7              -
RVK        IS          KEF        VIN NR      24/7              -

-------------------------------------------

-----------------Edit destination--------------    *E-02-01

City    Country      Airport    Phone nr.   Opening time   Closing time
================================================================================
RVK        IS          KEF        VIN NR      24/7              -
RVK        IS          KEF        VIN NR      24/7              -

    1. City.
    2. Country.
    3. Airport.
    4. Phone nr.
    5. Opening time.
    6. Closing time.

Enter your choice:
City successfully changed.

City    Country      Airport    Phone nr.   Opening time   Closing time
================================================================================
HFJ        IS          KEF        VIN NR      24/7              -

-------------------------------------------

----------Delete destination-------------     *E-02-02

City    Country      Airport    Phone nr.   Opening time   Closing time
================================================================================
RVK        IS          KEF        VIN NR      24/7              -
RVK        IS          KEF        VIN NR      24/7              -

    Are you sure you want to delete this destination (y/n)? :

Destination successfully deleted.

-------------------------------------------
```

----------View all destination-------------   *E-03

City	Country	Airport	Phone nr.	Opening time	Closing time
HFJ	IS	KEF	VIN NR	24/7	-
RVK	IS	KEF	VIN NR	24/7	-
RVK	IS	KEF	VIN NR	24/7	-
RVK	IS	KEF	VIN NR	24/7	-
RVK	IS	KEF	VIN NR	24/7	-

Employees

```
-----------------Main Menu-------------------
Please select an option by pressing a number

    1. Vehicles
    2. Customers
    3. Contracts
    4. Reports
    5. Destinations
    6. Employees                                        *F-00
    7. Exit

-------------------------------------------


-----------------Employees-------------------
Please select an option by pressing a number

    1. Create new employee                              *F-01
    2. Search employee                                  *F-02
    3. View all employees                               *F-03
    4. Main Menu                                        *F-04

-------------------------------------------

--------------New employee-------------------          *F-01
Employee Name:
SSN Number:
Phone Number:
Mobile Number:
E-mail Address:
Address:
Workplace:
Permission settings:

New employee is registered.
-------------------------------------------

--------------Search employees---------------          *F-02
Please select an option by pressing a number

    1. Search by name
    2. Search by SSN number

-------------------------------------------
```

```
--------------Search employees---------------          *F-02-01
Input the name:

1 match found.

Customer Name       SSN             Phone nr.       Mobile nr.        E-mail address         Address               Workplace           Permission settings
=============================================================================================================================================================
Jón Steinsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx          email@email.com       Street 66, 103 City     Country             Yes/No

    1. Edit employee information.
    2. Delete employee information.
    3. Return.
Enter your choice:
---------------------------------------------

--------------Search employees---------------          *F-02-02
Input the SSN number :

1 match found.

Customer Name       SSN             Phone nr.       Mobile nr.        E-mail address         Address               Workplace           Permission settings
=============================================================================================================================================================
Jón Steinsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx          email@email.com       Street 66, 103 City     Country             Yes/No

    1. Edit employee information.
    2. Delete employee information.
    3. Return.
Enter your choice:
---------------------------------------------


 -----------------Edit employee---------------          *F-02-01-01

 Customer Name       SSN             Phone nr.       Mobile nr.        E-mail address         Address               Workplace           Permission settings
 ============================================================================================================================================================
 Jón Steinsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx          email@email.com       Street 66, 103 City     Country             Yes/No

     1. Name.
     2. SSN.
     3. Phone nr.
     4. Mobile nr.
     5. E-mail address.
     6. Address.
     7. Workplace.
     8. Permission settings.

 Enter your choice:
 Name successfully changed.

 Customer Name       SSN             Phone nr.       Mobile nr.        E-mail address         Address               Workplace           Permission settings
 ============================================================================================================================================================
 Jón Jónsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx          email@email.com       Street 66, 103 City     Country             Yes/No

 ---------------------------------------------

 --------Delete employee information---------          *F-02-01-02

 Customer Name       SSN             Phone nr.       Mobile nr.        E-mail address         Address               Workplace           Permission settings
 ============================================================================================================================================================
 Jón Jónsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx          email@email.com       Street 66, 103 City     Country             Yes/No


     Are you sure you want to delete this information (y/n)? :

 Employee information successfully deleted.

 ---------------------------------------------

 --------View employee information---------          *F-03

 Customer Name       SSN             Phone nr.       Mobile nr.        E-mail address         Address               Workplace           Permission settings
 ============================================================================================================================================================
 Jón Jónsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx          email@email.com       Street 66, 103 City     Country             Yes/No
 Jón Jónsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx          email@email.com       Street 66, 103 City     Country             Yes/No
 Jón Jónsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx          email@email.com       Street 66, 103 City     Country             Yes/No
 Jón Jónsson       xxxxxx-xxxx     xxx-xxxx        xxx-xxxx          email@email.com       Street 66, 103 City     Country             Yes/No

 ---------------------------------------------
```