



# Clarusway

## Developer Project

For Clarusway Cohort-4 Students  
July, 2023



# Carshare Ventures B.V. : SnappCar



- » Rent a car in your neighborhood
- » SnappCar offers the most affordable shared car for a day or weekend away
  - » Affordable option
  - » Largest range of cars
  - » Trustworthy community
  - » Greener neighbourhood



# About SnappCar

- » SnappCar, the second-largest car-sharing platform in Europe, has made significant strides since its founding in the Netherlands in 2011.
- » This online community connects car owners looking for extra income and drivers, conscious of car costs, looking for a wide range of vehicles, that are always available, right on their doorstep.
- » The company is planning to expand its business into the United States. As part of this expansion, SnappCar is looking to leverage Salesforce for managing their car rental processes in the USA operations.





# Build a P2P Car Rental App

SnappCar needs a comprehensive Car Rental Management System that will help them to streamline their rental processes effectively in the US, including:

- » Car owner and renter registration
- » Car owner's information and keyless car listing management
- » Car renter's information and rental process management
- » Rental transaction and invoice management

After many hours of meetings, the following plan has been prepared.



# Objects

## » Vehicle Owners

» Vehicle Name	Auto Number*
» Account	Master-Detail(Account)*
» isActive	Checkbox
» Smart Pricing Opt-in	Checkbox
» Vehicle	Master-Detail(Vehicle)*

\* Required field

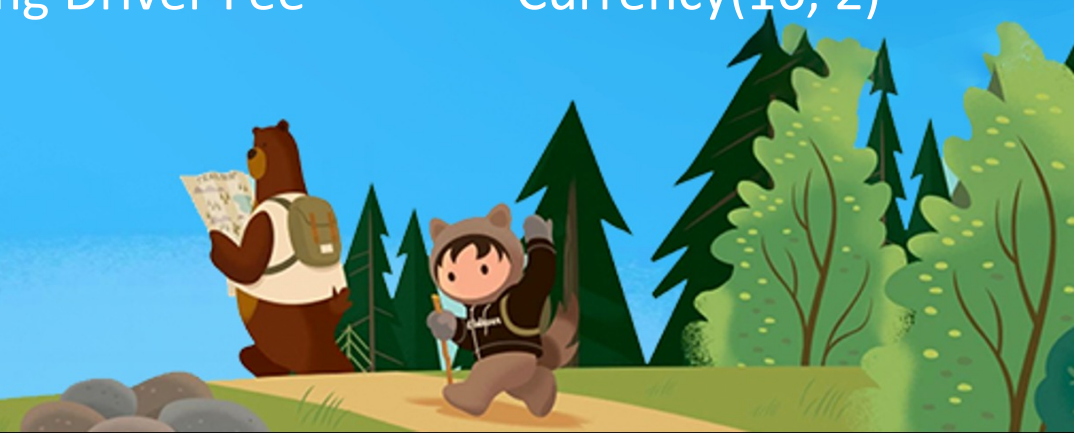


# Objects

## » Vehicle Renting

» Contact	Master-Detail(Contact)*	» Renting Amount	Currency(16, 2)*
» Driving License Number	Text(255)*	» Renting Type	Picklist(Daily, Hourly)
» Extra mile fee	Currency(16, 2)	» Roadside Assistance Fee	Currency(16, 2)
» First Odometer Reading	Number(18, 0)*	» SnappCar Fee	Currency(18, 0)
» Insurance Fee	Currency(16, 2)	» Surcharge Fee	Currency(16, 2)
» isKeyless?	Checkbox	» Total Amount	Currency(18, 0)
» Last Odometer Reading	Number(18, 0)	» Vehicle Renting ID	Auto Number*
» Rental Listing Listing)*	Master-Detail(Rental Listing)*	» Young Driver Fee	Currency(16, 2)

\* Required field





# Objects

## » Vehicle

» Chassis Number	Text(255)*
» Condition	Picklist
» Cylinder Count	Number(18, 0)
» Engine Number	Text(255)
» Exterior Color	Text(80)
» Gear Box Type	Text(80)
» Image	URL(255)
» Last Odometer Reading	Number(18, 0)
» Odometer Reading Date	Date
» Status	Picklist
» Vehicle Identification Number	Text(255)*
» Vehicle Name	Text(80)*
» Vehicle Registration Date	Date

\* Required field



# Objects

## » Rental Listings

» Daily Rate	Currency(16, 2)
» End Date	Date
» Extra mile price	Currency(16, 2)
» Hourly Rate	Currency(16, 2)
» isActive	Checkbox*
» isSmartPrice	Checkbox
» Long Term Discount	Checkbox
» Mile Allowance	Number(18, 0)
» Price	Currency(16, 2)
» Rental Listing ID	Auto Number*
» Start Date	Date
» Title	Text(255)
» Vehicle	Master-Detail(Vehicle)*

\* Required field





# Objects

## » Claims

» Case	Master-Detail(Case)*
» Claim Amount	Currency(16, 2)
» Claim ID	Auto Number*
» Documents	URL(255)
» Final Amount	Currency(16, 2)
» Payer	Picklist
» Type	Picklist

## » Keyless

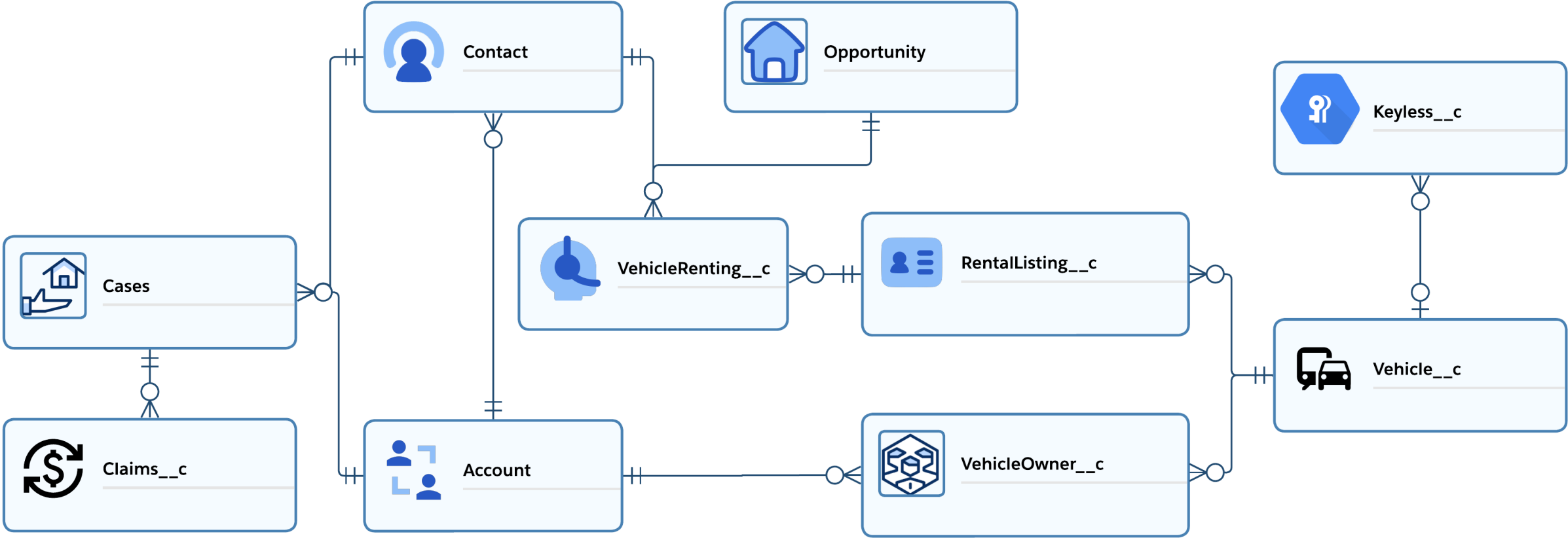
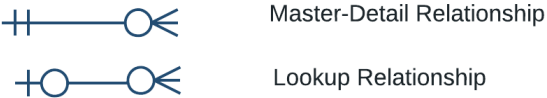
» InUse?	Checkbox
» Keyless ID	Auto Number*
» Vehicle	Lookup(Vehicle)

\* Required field



# P2P Car Rental App

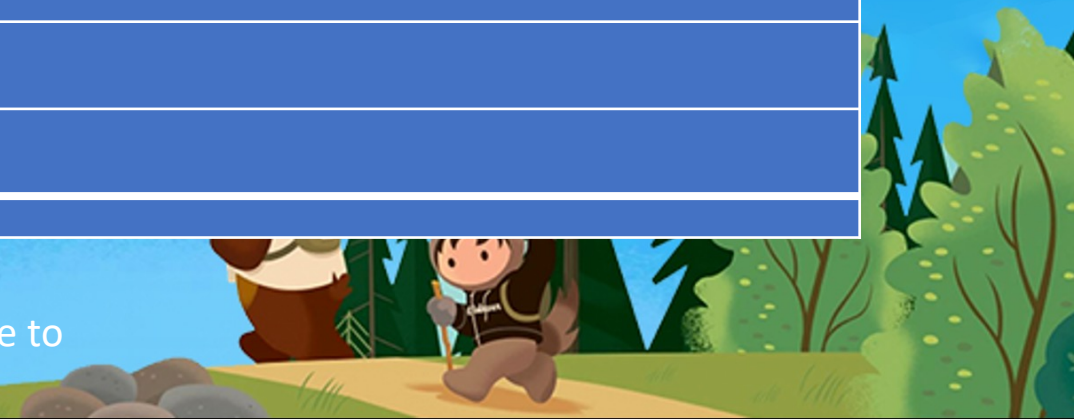
Data Modeling Diagram



# Organization-Wide-Defaults

Object Name	Organization Wide Default
Rental Listing	Controlled by Parent
Vehicle Renting	Controlled by Parent
Vehicle Owner	Controlled by Parent
Vehicle	Private & Sharing Rule (Read/Write) to share the Vehicles with Managers ( Role )
Claims	Controlled by Parent
Keyless	Public Read Only
Account	Public Read/Write
Contact	Controlled by Parent
Opportunity	Public Read/Write
Cases	Public Read/Write/Transfer

Note: This is the initial plan. If you think that an update needed, please feel free to change. But please test it first!





# Profile/Permission Set Settings\*

C - Create

R - Read

E - Edit

D - Delete

X - No Access

	Profile		
Object Name	Manager	Owner	Renter
Rental Listing	CRED	R	R
Vehicle Renting	RE	R	CR
Vehicle Owner	CRE	CRE	R
Vehicle	R	CRE	R
Claims	CRE	R	R
Keyless	CRED	CR	R
Account	CRE	CR	RC
Contact	CRE	CR	CR
Opportunity	CRE	X	X
Cases	CRE	R	R

\*Permission Set recommended

Note: This is the initial plan. If you think that an update needed, please feel free to change. But please test it first!

# Email Template to Car Owners

Subject: Successful Creation of Your Rental Listing

Dear {Vehicle\_Owner\_Name},

We are pleased to inform you that your rental listing for {Vehicle\_Name} has been successfully created on our platform, SnappCar.

You can manage your listing, including setting pricing and availability, directly from your SnappCar dashboard.

Should you opt for Smart Pricing, our system will automatically optimize the price of your vehicle based on market demand and other factors.

Your vehicle is now visible to millions of potential renters, providing you the opportunity to monetize your vehicle during the periods it is not in use.

In case you need any assistance or have queries related to your listing, feel free to reach out to our dedicated owner support team.

Thank you for being a part of the SnappCar community. We appreciate your trust in us and look forward to facilitating successful rentals for your vehicle.

Best Regards,  
SnappCar Team

Please replace the {} placeholders with the respective fields' API names in Salesforce.



# Email Template to Car Renters

Subject: Successful Vehicle Rental Confirmation

Dear {Renter\_Name},

Congratulations! Your vehicle rental for {Vehicle\_Name} has been confirmed. We hope this car meets all your requirements and ensures a comfortable ride for you.

Your Rental ID is {Vehicle\_Renting\_ID}. Please keep this ID for future reference.

Your rental starts from {Rental\_Listing\_Start\_Date} and ends on {Rental\_Listing\_End\_Date}. The total amount for your rental is {Total\_Amount}.

Remember, we are here to help you at any time. If you encounter any issues during your rental period, or if you need roadside assistance, please reach out to us immediately.

We are glad to have you with us and we hope you enjoy your experience with SnappCar. Drive safely!

Best Regards,

SnappCar Team

Please replace the {} placeholders with the respective fields' API names in Salesforce.





# Unit Test Classes

- » At least 75% code coverage. Aim to achieve 95%
- » Create mock data method with Test Utility Class or Test Setup method
- » Use Test.startTest & Test.stopTest
- » Cover all possible scenarios



# Package

Please create all objects and fields yourself.

for those who wish to expedite the setup process, an unmanaged package is available for installation. Here's the link:

<https://login.salesforce.com/packaging/installPackage.apexp?p0=04tHo0000002VjC>



# Repository

Please clone the repository to your local computer and read the readme file carefully

<https://github.com/dsorajisto/Clarusway-Cohort4-Developer-Handson>





# Considerations

- » Feel free to update fields, page layouts, and settings
- » Use brand new, never touched developer org(not playground)
- » Use VS Code to deploy your codes
- » Push your codes to your Github repository
- » Use Github/Jira for issue assignments



# Presentation

Date: 28 July 2023

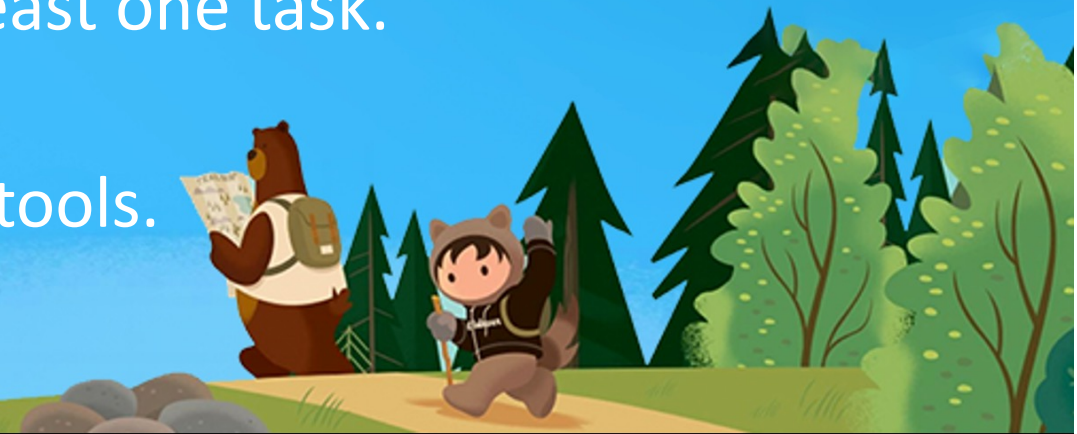
Time : 8PM (EST)

Location: Zoom link will be provided!

Each team will prepare 1 presentation for 10 to 15 minutes.

All participants are required to present a least one task.

Feel free to use any presentation method/tools.



# Daily Standup

- » What did you accomplish yesterday?
- » What are your plans for today?
- » Are there any obstacles or roadblocks in your way?





# Sprint Retro

» What went well?

» What to improve

» Action items

