



care

IHS

ELDALY δ

V 2023.12.02

care integrated health system (IHS)

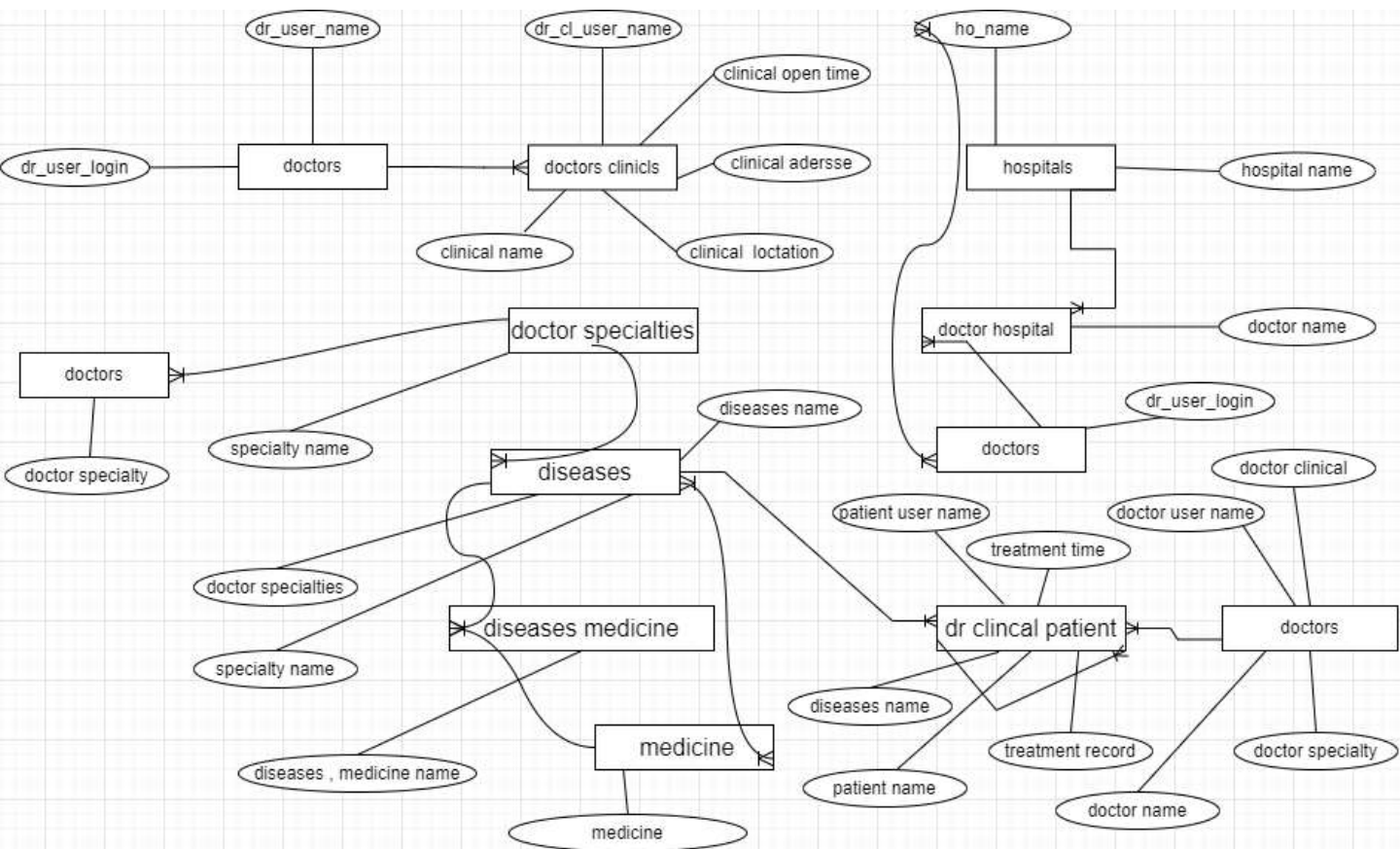
As an aspiration for a better life , we present care as a integrated health system , where we take care of every thing for every one.

In this report, we will present an initial version of the database , diagrams , the idea of care project . We will take a look on the database built on salesforce objects, fields, relationships , Formulas , Validation Rules , and flow triggers .

We will clarify some ideas and processes in parallel with explaining the project as we will use diagrams , screenshots , codes .

We hope to meet your expectations .

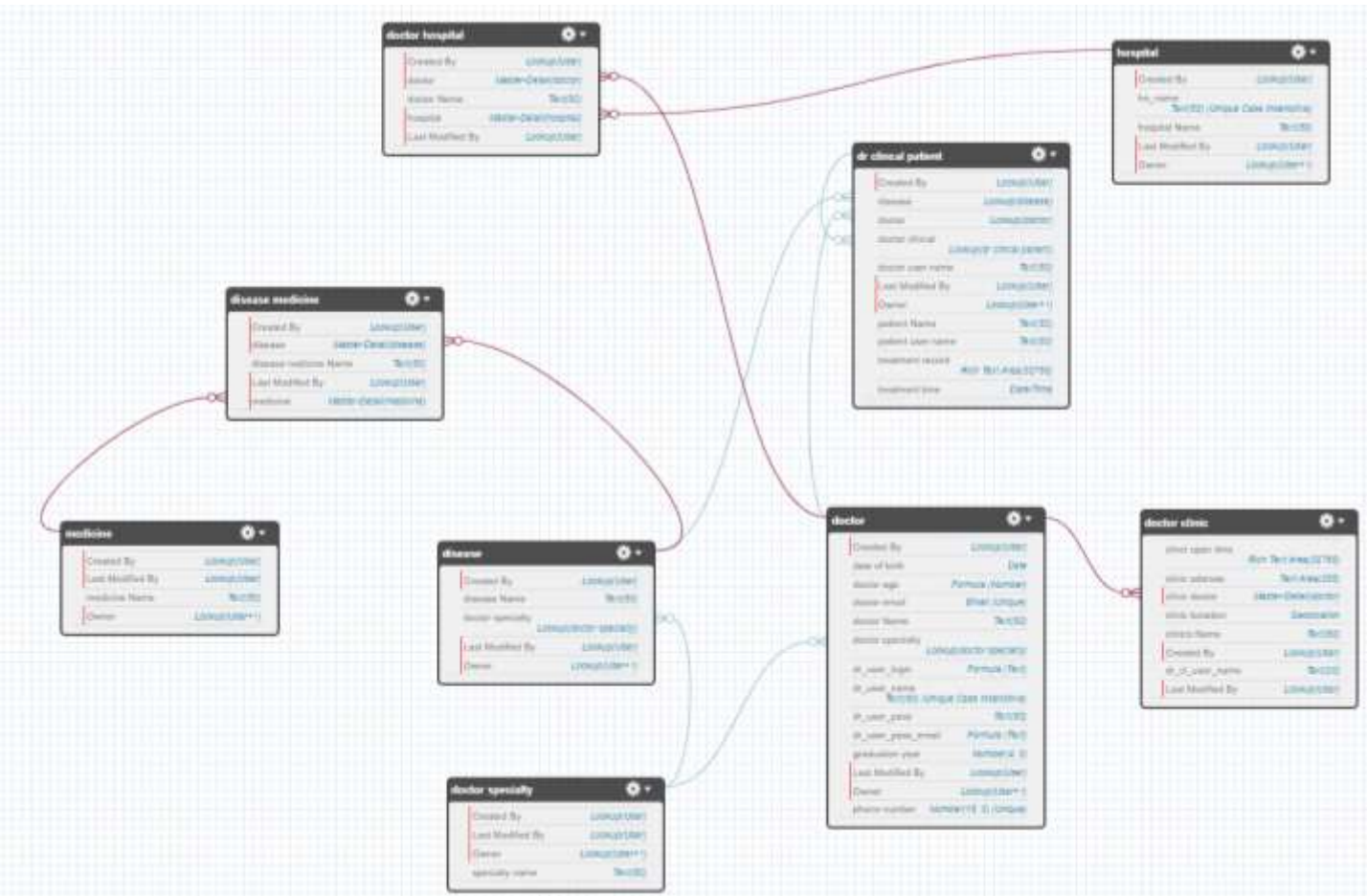
Diagrams in care , They can be divided into a number of parts. We will show part of the main diagram and its equivalent in salesforce .



Doctor - diagram 01 _ V 20231201 – CARE IHS

It is clear from the previous diagram that care depends mainly on the relationships between entities , In order to understand these relationships in detail, we will separate them to simplify the explanation

Entities in salesforce ,It makes the separation process easier for us, and the relationships between objects become clearer to us



Doctor -salesforce schema builder 01 _ V 20231201 – CARE IHS

from the previous diagram we can sparate doctor section – as an example – in to 7 object : doctors , doctors clinics , dr clinical patients , doctor specialties , hospitals , diseases and medicines . We will provide a detailed overview of some of them and a quick look at the rest

Doctors object It is the basis of this report, so we will present it in detail .

Fields , relationships , Formulas , Validation Rules , and flow triggers .

1 - Fields

▼ doctor information	
doctor Name ahmed	date of birth 1/12/1999
doctor specialty open-heart	doctor age 32.9
graduation year 1403	
▼ doctor contact	
phone number .	doctor email contact@care.eldaly.net
▼ user information	
dr_user_name dr_ahmed	dr_user_pass 123456@Qa
dr_user_login @dr_ahmed	dr_user_pass_email dr6543216@Qa

Doctor -salesforce fields 01 _ V 20231201 – CARE IHS

doctor Name : doctor's name – text (input)

date of birth : doctor's date of birth day – date (input)

doctor specialty : doctor's specialty – look up relationship

doctor age : doctor' age – formula

graduation year : the year of doctor's graduation – data (input)

phone number : the phone number to contact – phone number(input)

doctor email : the email to contact – email (input)

dr_user_name : the user name will to refer to the doctor and login – text (input) (stander user name rules)

dr_user_login : the user that system use – formula

dr_user_pass : the password of the user – text (input) (stander password rule) – (dr_user_pass_email) what the system will use

2 – Formulas

In doctor object there are 3 formulas :

- **doctor age** : It calculates the doctor's age from the date of birth and gives a value for the age in years and parts of the year
$$(\text{ TODAY() - dr_date_of_birth_c}) / 365$$

- **dr_user_login** : It returns the username in lowercase letters and adds @ to the beginning

```
SUBSTITUTE( dr_user_name__c ,  
dr_user_name__c , "@" +  
LOWER( dr_user_name__c ) )
```

- **dr_user_pass_email** : It encrypts the password that the system will use later and sends it to the user

```
SUBSTITUTE( dr_user_pass__c ,  
dr_user_pass__c , "dr" + REVERSE( LEFT(  
dr_user_pass__c , 6) ) + RIGHT(  
dr_user_pass__c , 4) )
```

3– Validation Rules

In doctor object there are 9 Validation Rules :

Frist – user name (stander rules)

dr_user_name_length_rule : do not allow entering a user_name that is less than 8 letters long

`LEN(dr_user_name__c) < 7`

dr_user_name_begins_rule : Force user to enter (dr_) in begins of the user name – (DR_)(Dr_)(dR_) are accepted

`BEGINS(dr_user_name__c , "dr_") = false`

`&&`

`BEGINS(dr_user_name__c , "DR_") = false`

`&&`

`BEGINS(dr_user_name__c , "Dr_") = false`

`&&`

`BEGINS(dr_user_name__c , "dR_") = false`

dr_user_name_special_symbols_rule : Force user to not enter ! @ # \$ % ^ & * or empty space in user name

```
CONTAINS( dr_user_name__c , "!" )=true
||
CONTAINS( dr_user_name__c , "@" )=true
||
CONTAINS( dr_user_name__c , "#" )=true
||
CONTAINS( dr_user_name__c , "$" )=true
```

```
CONTAINS( dr_user_name__c , "%" )=true
||
CONTAINS( dr_user_name__c , "^" )=true
||
CONTAINS( dr_user_name__c , "&" )=true
||
CONTAINS( dr_user_name__c , "*" )=true
||
CONTAINS( dr_user_name__c , " " )=true
```

Second – password (stander rule)

dr_user_pass_length_rule : force user to enter a password that longer than 8 letters long

$\text{LEN}(\text{dr_user_pass_c}) < 8$

dr_user_pass_upper_case_letter_rule &
dr_user_pass_lower_case_letter_rule

Force user to enter at lest one upper case letter and at lest one lower case leter

$\text{CONTAINS}(\text{dr_user_pass_c} , "a") = \text{false}$

&&

$\text{CONTAINS}(\text{dr_user_pass_c} , "A") = \text{false}$

&&

$\text{CONTAINS}(\text{dr_user_pass_c} , "b") = \text{false}$

&&

$\text{CONTAINS}(\text{dr_user_pass_c} , "B") = \text{false}$

this code goes for all English alphabet in upper and lower case

dr_user_pass_special_symbols_rule : force user to enter a at lest one special symbols like @ # \$ % & * in the password

$\text{CONTAINS}(\text{dr_user_pass_c} , "@") = \text{false}$

&&

$\text{CONTAINS}(\text{dr_user_pass_c} , "#") = \text{false}$

&&

$\text{CONTAINS}(\text{dr_user_pass_c} , "$") = \text{false}$

&&

$\text{CONTAINS}(\text{dr_user_pass_c} , "%") = \text{false}$

&&

$\text{CONTAINS}(\text{dr_user_pass_c} , "&") = \text{false}$

&&

$\text{CONTAINS}(\text{dr_user_pass_c} , "*") = \text{false}$

Third - logical validation Rules

dr_date_of_birth_rule : force the user at least 18 years old to have record – note it allow who not graduate yet to have record

(TODAY() - dr_date_of_birth__c) < 6570

dr_grad_year_vialed_rule : controls the validity of the graduation certificate - It does not allow anyone under 24 years of age to have a witness - It does not allow the age of a certificate to be more than 50 years old - It does not allow the entry of an upcoming graduation year

dr_grad_year__c < ((YEAR (TODAY()) - 50))

||

dr_grad_year__c < ((YEAR (dr_date_of_birth__c)) + 24)

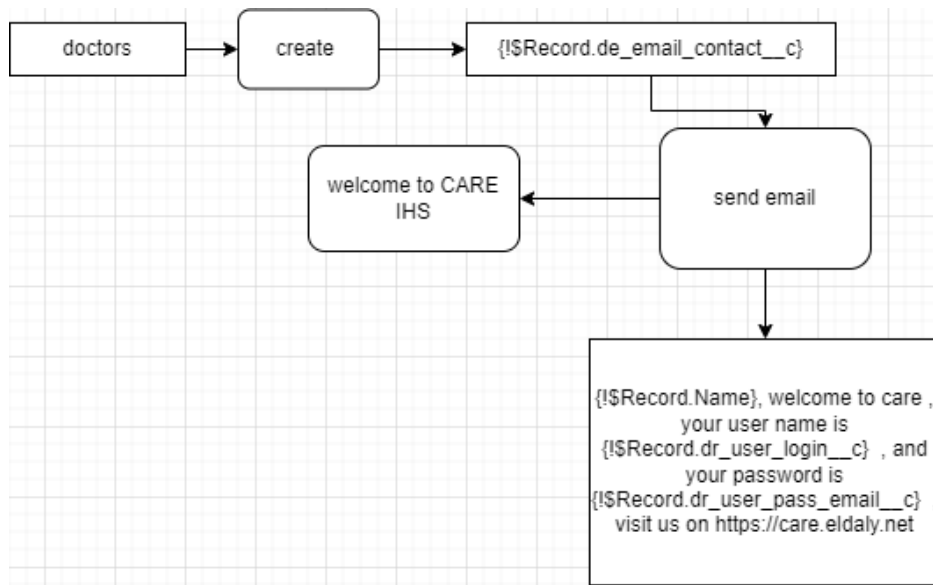
||

dr_grad_year__c > YEAR (TODAY())

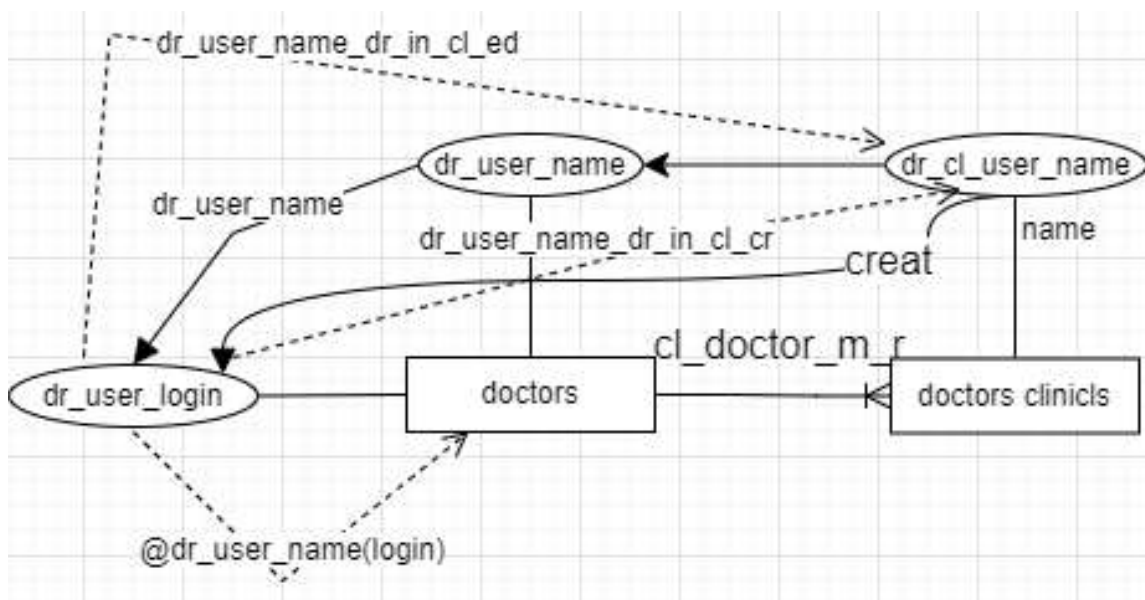
These rules apply fully to some object like pharmacists or Partially to other object like Nurses or hospitals

4 – flow triggers

In doctor object there are 2 flow triggers :
dr_acc_email_cr - V1 : send email when doctor email when the record is created



dr_user_name_dr_in_cl_ed - V1 : transfer user name from doctor object to clinical object when created or updated





Clinics & Clinics patients

Clinics

▼ clinic information

clinics Name	d 1	clinic doctor	ahmed
		dr_cl_user_name	@dr_ahmed

▼ clincli address and tiime

clinic loctation	56, 56	clinic adersse	test 1
clind open time	test 1		

Clinics patients

Related Details

▼ patient & doctor information

patient Name	test 1	patient user name	test 1
doctor	ahmed	doctor user name	@dr_ahmed

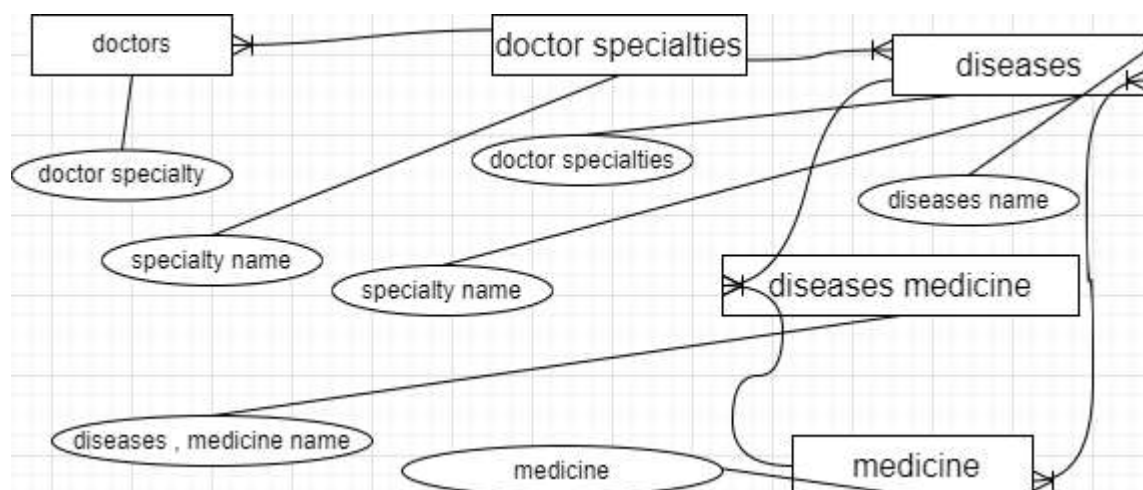
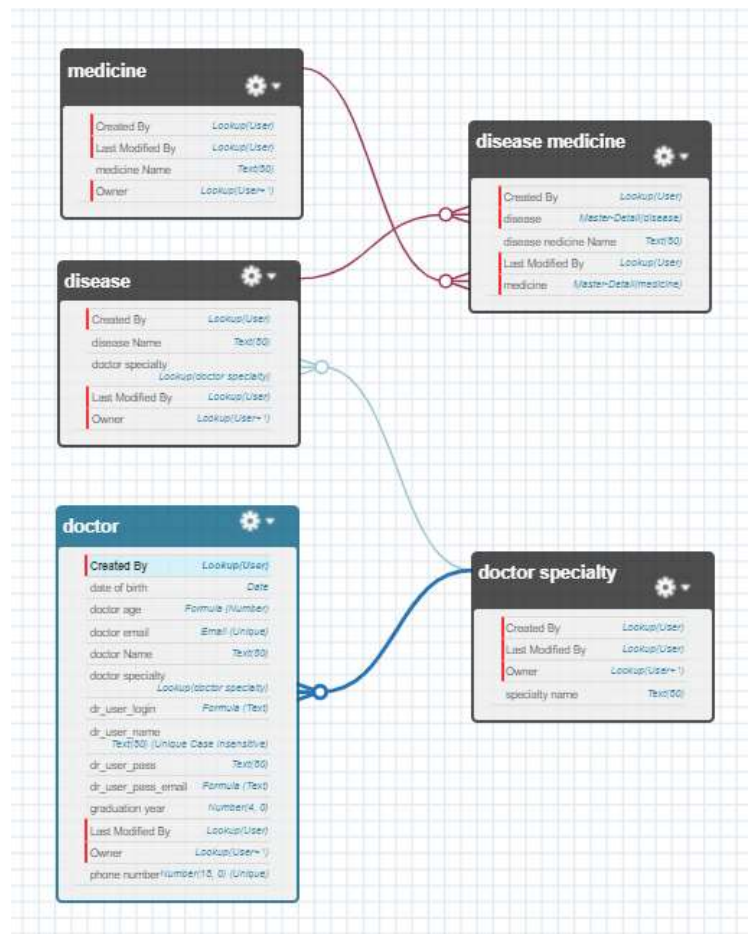
▼ treatment information

disease	heart	doctor clinical	
treatment time	12:00 , 12/12/2023 PM	treatment record	test 1

Clinics , Clinics patients , doctor specialties , hospitals , diseases and medicines It relies heavily on relationships and interconnecting them together, so we will look at part of them

Relationships in care , They are the basic structure of the system, as most objects depends on them In order to work properly Like the realtionships between doctors , disease , medicine and doctor specialty

Where the doctors are Connected to disease through doctors specialty And disease,medicines are connected through disease medicines (as data transfer object) These relationships work whit each other to make the system effective



Features in care , We care about everything for people's health

Care system solving health problems as well as problems related to risks and public security .

It also constitutes an important source of research.

What constitutes a system for drug and health research for patients and follow-up of medical records .

Monitoring the health of family members and relatives and forming a healthy social network .

And until another meeting do not forget

*Take*care

CARE IHS

<https://care.eldaly.net>

Support :

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One of ELDALY's services

