

Veterinary Management System[®]

.NET · C# · WPF · CLOUD DATABASE (AZURE)

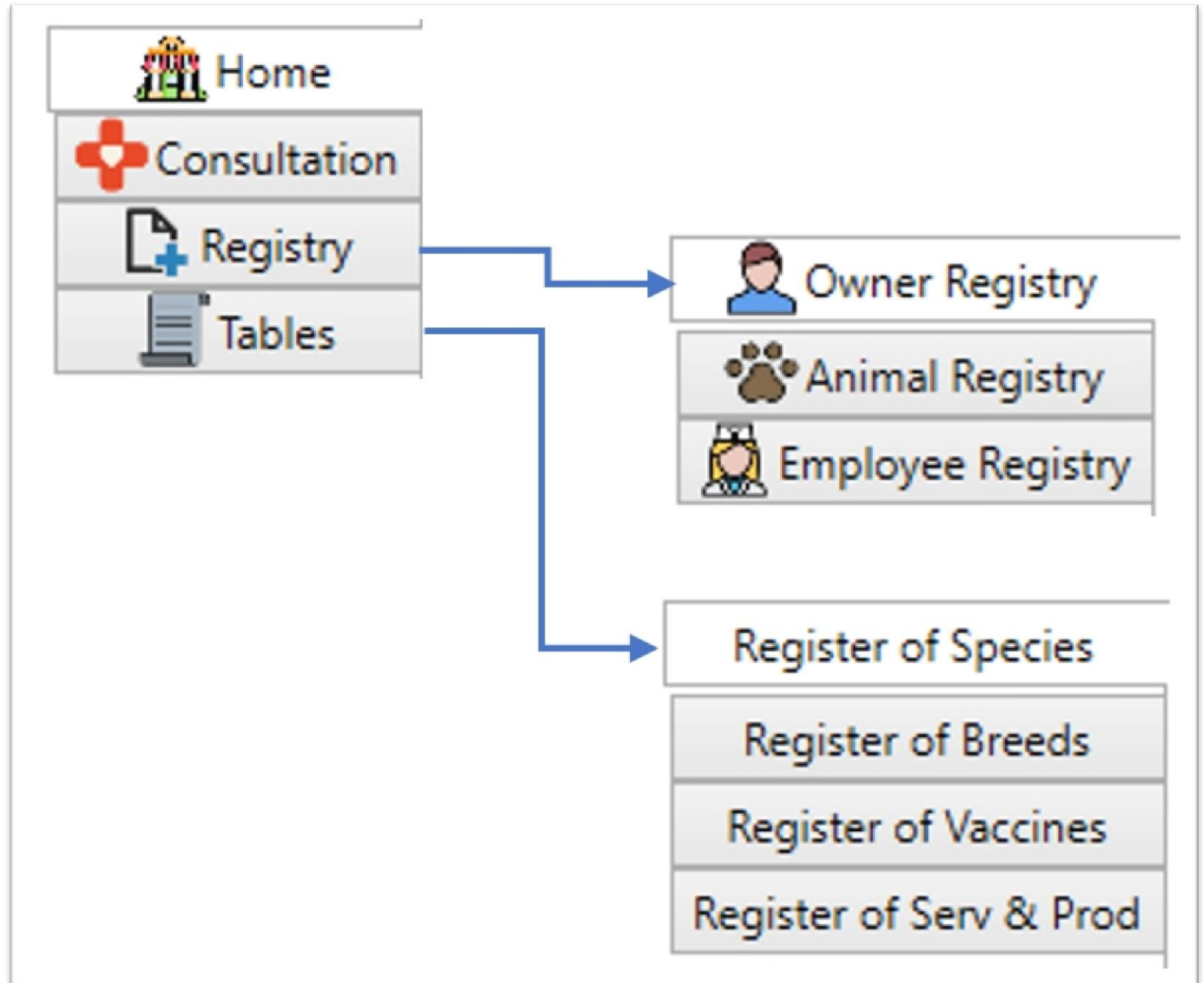
TEAM: LORENA GAMARRA & NEDIS BARRETO

Background

- A program for management of a veterinary clinic.
- To make easier the administration of clients, employees, consultation (animal care), services and products.
- Providing the following basic features: animals, owners and employees registration, services and products maintenance also management of the consults.

Overview

- Intuitive menu: easy access to system options
- Basic functions necessary for the daily routine of a veterinary clinic



Overview

- Offering the option of taking a photo for visual identification
- Online data storage (cloud)

Date Employee

Owner Animal Vet Historic Consult & Prescription Vaccines Cost (\$)

Animal Name Gender Birthday Current Weight (kg) Status

☐ Male ☐ Female

SPECIES BREEDS

Identification, Color or Coat

Food - Brand - Quantity - Schedules (morning, afternoon, evening, free)

Phobias

☐ Available for Grooming ☐ Aggressive

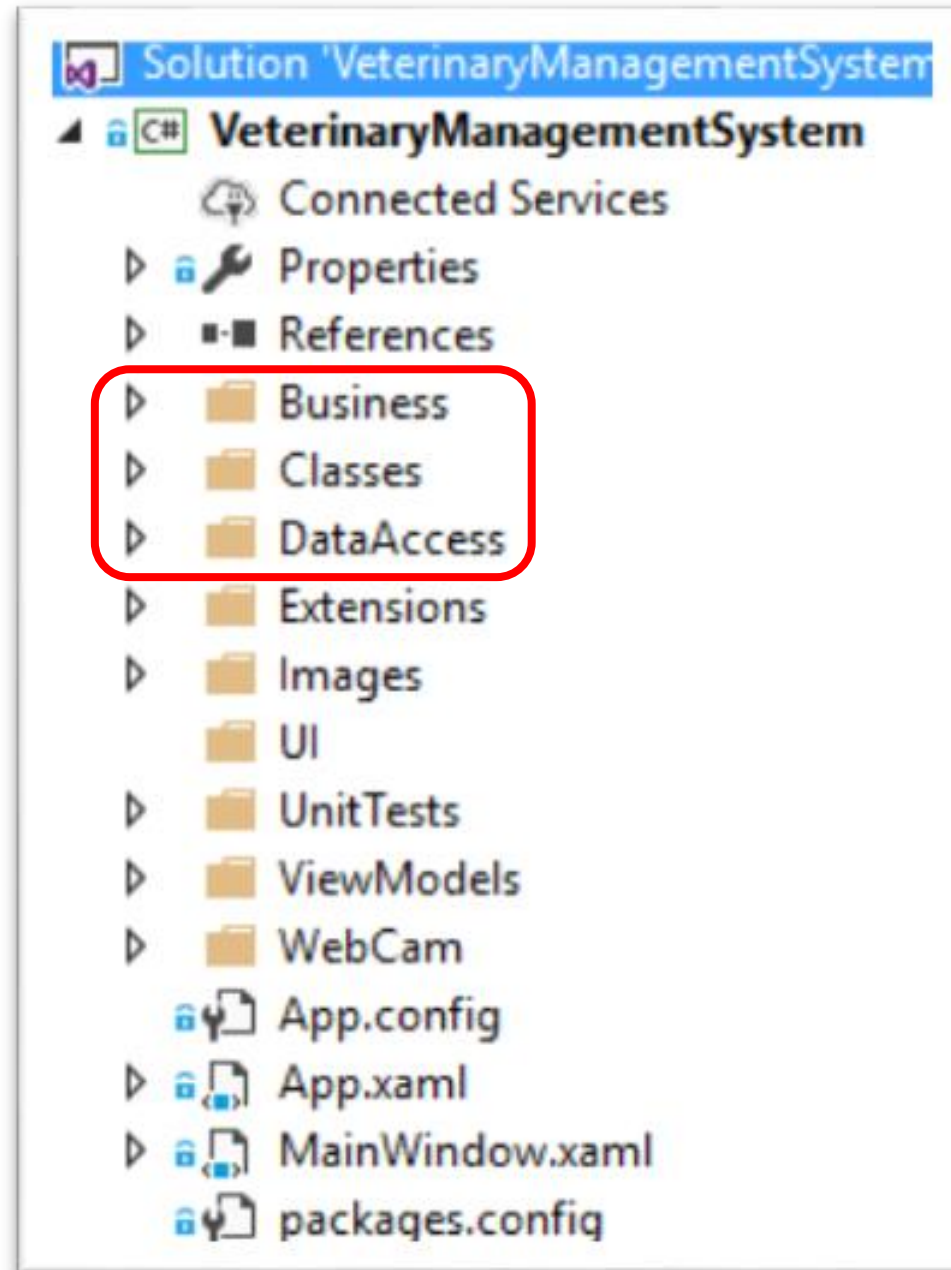
☐ Has a Pedigree ☐ Hyperactive

☐ Restrictions / Problems ☐ Anti Social

☐ Dead / Deceased ☐ Obsessive

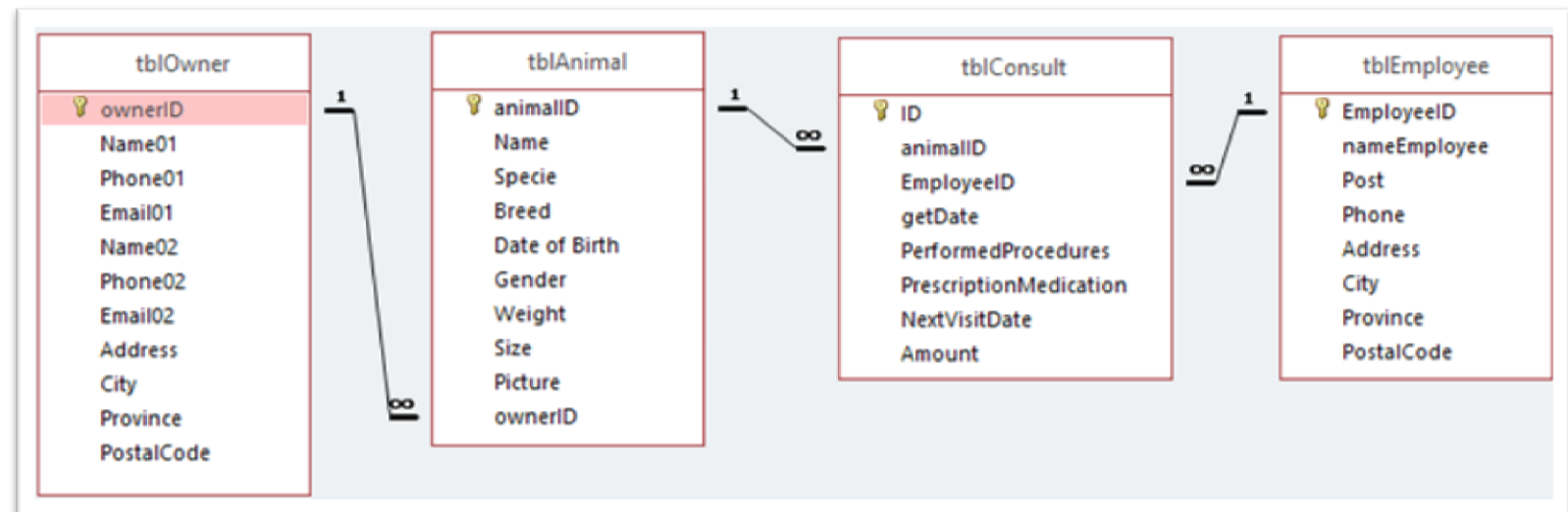
Challenges and solutions

- Project structure ✓
- Work only with WPF
- Database concepts
- Photo capture
 - Save to DB
 - Retrieve from DB
- Populate ComboBox



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Date of Registration: 1/28/2017 12:00:00 AM ID: 1

Status: ☒ Active ☐ Inactive

First Owner (Required)

Required Items

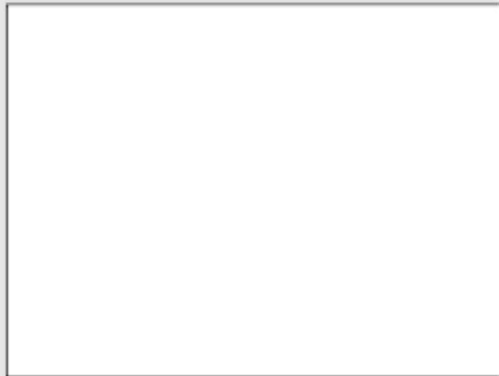
First Name*	Middle Name	Last Name*
Lorena		Gamarra
Number*	Address*	Complement
146	Rue Francois	app 204
City*	Province*	Postal Code*
Montreal	MB	H3E1G3
Phone Number*	Other Number	Email
5145159740		



Take a Picture

Second Owner (Optional)

First Name	Middle Name	Last Name
Eduardo		Chagas
Number	Address	Complement
146	Rue Francois	app 204
City	Province	Postal Code
Montreal	QC	H3E1G3
Phone Number	Other Number	Email
5145160942		



Take a Picture

Save Record Exit

Challenges and solutions

- Project structure
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- Database concepts
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- Populate ComboBox ✓

Search for Specie Name

ID	Specie	Status
2	Cat	True
3	Dog	True
4	Fish	True
5	Birds	True
6	Insects	False

ID:

Specie:

Status: ☒ Active ☐ Inactive

Search for Breed Name

ID	Specie	Name	Status
4	2	AAAAaa	True
8	2	TesteA	True
9	3	TesteBB	False
10	3	TesteCC	True
11	2	Golden Retriever	True
14	5	Beija-flor	True
15	5	Loro	True

ID: Specie:

Name:

Status: ☒ Active ☐ Inactive

What we learned!

- Convert image to Byte ↔
- Populate ComboBox with data from other table




//SAVE OWNERS METHOD

2 references | Nedis Barreto, 14 hours ago | 1 author, 1 change

```
private void SavingOwnerRegistryOnDB()
{
    MemoryStream memStream1 = new MemoryStream();
    JpegBitmapEncoder encoder1 = new JpegBitmapEncoder();
    if (imgRegistryOwner1Image.Source != null)
    {
        encoder1.Frames.Add(BitmapFrame.Create((BitmapSource)
            imgRegistryOwner1Image.Source));
        encoder1.Save(memStream1);
    }
    SelectedOwner.Picture_01 = memStream1.ToArray();
}
```

What we learned!

- Convert image to Byte  ✓
- Populate ComboBox with data from other table

```
//CONVERT FROM Byte TO BitmapImage
public static BitmapImage ConvertToBitMapImage(byte[] bytes)
{
    if (bytes == null || bytes.Length == 0) return null;
    var image = new BitmapImage();
    using (var mem = new MemoryStream(bytes))
    {
        mem.Position = 0;
        image.BeginInit();
        image.CreateOptions = BitmapCreateOptions.PreservePixelFormat;
        image.CacheOption = BitmapCacheOption.OnLoad;
        image.UriSource = null;
        image.StreamSource = mem;
        image.EndInit();
    }
    return image;
}
```

```
imgRegistryOwner1Image.Source = ConvertToBitMapImage(SelectedOwner.Picture_01);
```

What we learned!

- Convert image to Byte ↔
- Populate ComboBox ✓
with data from other table

```
class SpecieNameViewModel
```

```
public List<Specie> Species { get; set; }
```

```
class MainWindow
```

```
private SpecieNameViewModel SpecieNameViewModel { get; set; }
```

```
public MainWindow()
```

```
SpecieNameViewModel = new SpecieNameViewModel();  
SpecieNameViewModel.Species = dbSpecie.GetAllSpecieActives();  
cbRegistryAnimalSpecies.DataContext = SpecieNameViewModel;  
cbTablesBreedsSpecies.DataContext = SpecieNameViewModel;
```

```
IvTableRegisterBreeds_OnSelectionChanged
```

```
cbTablesBreedsSpecies.SelectedValue = SelectedBreed.SpecieID;
```

```
btnTablesBreedsSave_Click
```

```
SelectedBreed.SpecieID = ((Specie)cbTablesBreedsSpecies.SelectedItem).Id;
```

```
private void cbRegistryAnimalSpecies_SelectionChanged(object sender, SelectionChangedEventArgs e)  
{  
    var specie = cbRegistryAnimalSpecies.SelectedItem as Specie;  
    BreedNameViewModel.Breed = dbBreed.GetAllBreedsActivesBySpecie(specie.Id);  
    cbRegistryAnimalBreeds.DataContext = null;  
    cbRegistryAnimalBreeds.DataContext = BreedNameViewModel;  
    unsavedChanges = true;  
}
```

```
ItemsSource="{Binding Path=Species}" DisplayMemberPath="SpecieName" SelectedValuePath="Id"
```

Future work

- Finalize Consultation Tab
- Print and send PDF by email
- Change:
 - True or False to Active or Inactive Status
 - ID to name (SpecieID to SpecieName)

Summary

- Registry
 - Owner
 - Animal
 - Employee
- Secondary Tables
 - Specie
 - Breed
 - Vaccine
 - Services and Products