Project of Software Development

Lab 6 - 13Mar
Practical Exercise 3: myPets

Lecture Topic

Exercise:

- myPets

Bibliography:

- OutSystems online training:
  https://www.outsystems.com/training/courses/125/logic/?LearningP

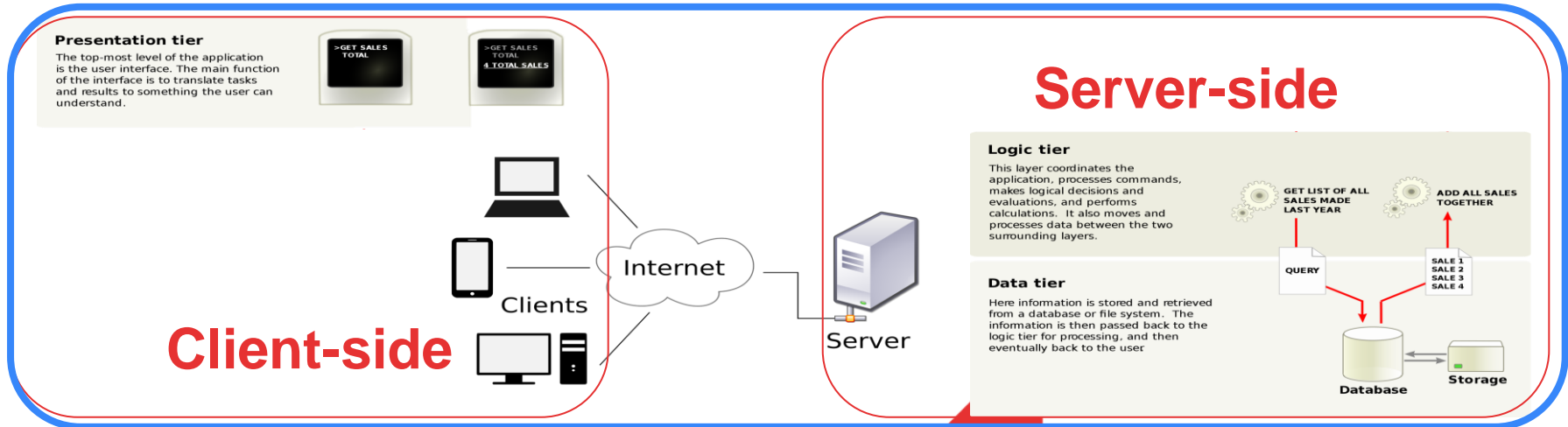|				
How the customer explained it.	How the Project Manager Understood it.	How the Engineer Designed it.	How the Technician Built it.	How the Customer really wanted it.

OutSystems Online Training: Becoming a Reactive Web Developer

Web Application: practical exercise myPets

Presentation tier
The top-most level of the application is the user interface. The main function of the interface is to translate tasks and results to something the user can understand.

Server-side

Logic tier
This layer coordinates the application, processes commands, makes logical decisions and evaluations, and performs calculations. It also moves and processes data between the two surrounding layers.

GET LIST OF ALL SALES MADE LAST YEAR

ADD ALL SALES TOGETHER

QUERY

SALE 1
SALE 2
SALE 3
SALE 4

Data tier
Here information is stored and retrieved from a database or file system. The information is then passed back to the logic tier for processing, and then eventually back to the user

Database   Storage

Clients

Internet

Server

Client-side

New exercise: myPets

Our beloved pets have the need of medical attention, vaccinations, deworming, medication, etc. We will create medical records for our pets to ensure good care and to ensure that we never forget an appointment at the vet.

Create a reactive web application that implements the following user stories:

1. As a pet caregiver, I want to see and record the individual data of each of my pets (species, breed, date of birth, colour(s), eating habits, sleeping habits, special needs, has its "Boletim Sanitário de Cães e Gatos" (*), ...). In the screen with the list of my pets, I want to see their current age and an alert if it is a dog or cat that does not have its *"Boletim Sanitário de Cães e Gatos"*.
2. As a pet caregiver, I want to see and record all medical assistance of each pet (past and future) (next visit or drug dose). In the list of medical assistance, I also want to see highlighted which ones are scheduled to occur within the next 1 month or have the next visit or dose within one month.
3. As a pet caregiver, I want to save a photo of my pet on each of its birthdays and also some data: weight, size. I also want to see on one page the sequence of photos of its ageing.

(*)*"Boletim Sanitário de Cães e Gatos"* is an mandatory (by law) online medical record which applies to dogs and cats only.

For each of the user stories:

- **Implement a list page and a management page. Allow all CRUD actions (create, read, update and delete).**
- **Be accurate with the data type of the attributes and whether it is a mandatory attribute or not.**

Learning goals

Creating a Web Application in OutSystems:

- Data:
  - Creating entities and attributes on the database
  - Fetching, updating, deleting, and inserting data using Web Screens
- Logic: implementing data validation and differentiated functionality, per role.
- Presentation: lists, tables, links, forms, inputs, buttons, feedback, visual structure, images and icons. With differentiated functionality, per role.
- Security: creating secure pages and differentiated content and logic, per role.
- Reactive: developing content that adapts to screen size

Homework outsystems

Finish the myPets exercise:

1. Mandatory: user story 1. Optional: user story 2.
2. For each entity, fill in some data (at least 4 records per entity)
3. Submit the address of your Web Application by following up on the email

Expected total effort: 30 to 120 minutes

Homework outsystems

OutSystems Online Training: Becoming a Web Developer

https://www.outsystems.com/training/paths/18/becoming-a-reactive-web-developer/

Advanced Aggregates (40 minutes)

https://learn.outsystems.com/training/journeys/web-developer-662