

**OOP – NRC 9642**

**PROJECT DEFINITION**

**TEAM 1: JSONS**

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**System:** OdontoApp

**Client:** Nelly Amaya

Problem

Our client, Nelly Amaya, has been working on her own dentist consultory by herself, and all the patient clinical history has been managed through paper. also the business rules her job has, such as: services purchase, possible discounts, appointment assignment, inventory of dental tools have been working all of them through personal meetings or via call.

Overview

In order to automate the functionalities of Nelly’s dentist consultory, we had an interview that has allowed our developer team to understand how she wants to manage this situation, also with some implementations that our team proposed describing in this way the final needs:

* Clinical History
  + The clinical history must contains:
    - Document
    - Name
    - Age
    - Weight
    - Height
    - Disease Symptoms
    - Cell Phone
    - Systemic Diseases
    - Patient Treatment
    - Treatment Date Start
    - Treatment End Date
  + Create a patient entering the respective data she needs.
  + Edit that patient and the respective data she needs.
  + Delete completely a patient and its respective data.
  + Read all the patients available and its data (organized alphabetically, a-z).
  + To have all this data in MongoDB
* Services Purchase/Discount: for a determined patient:
  + The services are:
    - Profilaxis + Fluorización (especialmente para niños): 20 dólares
    - Restauraciones simples: 20 dólares
    - Restauraciones complejas: 25
    - Restauraciones para niños (empastes para niños): 25 dólares
    - Extracciones (extracción de un diente): 20 dólares
    - Extracciones complicadas: 30 dólares
    - Tratamiento de un conducto (incisivos o dientes frontales): 60 dólares
    - Tratamiento de tres conductos (molares): 100 dólares
  + Buy service(s) (if it is more than 200 dollars it will be applied for a discount of 20%).
  + Show acquired service(s) in a bill.
  + Print the bill.
  + To have all this data in MongoDB
* Appointment assignment: for a determined patient:
  + Add an appointment.
  + To have all this data in MongoDB

* Daily incomes:
  + Calculate the daily incomes.
  + Read the mensual incomes.
  + To have all this data in MongoDB
* Interface
  + When using the system it may have a simple and easy interface to use.