



### **Developed by**

- # Alejandro Asensio alejandro.asensio.10@gmail.com
- Óscar Burgos mihifidem@gmail.com

#### Module

M12 Project

#### **Degree**

Cicle formatiu de grau superior (CFGS) Desenvolupament d'Aplicacions Web Perfil professional Bioinformàtica (DAW-BIO) (cicle LOE)

#### **Center of Studies**

IES Provençana <a href="https://www.proven.cat">https://www.proven.cat</a>











## social civic problem





## proposed solution



## **DNA-based Dog Identification**

This project aims to use bioinformatics tools to identify a certain dog by its Short Tandem Repeats (STR) pattern, located among the different chromosomes of its DNA. That identification may have several uses, and one of them is helping towns and cities to maintain the streets clean from dogs' droppings.

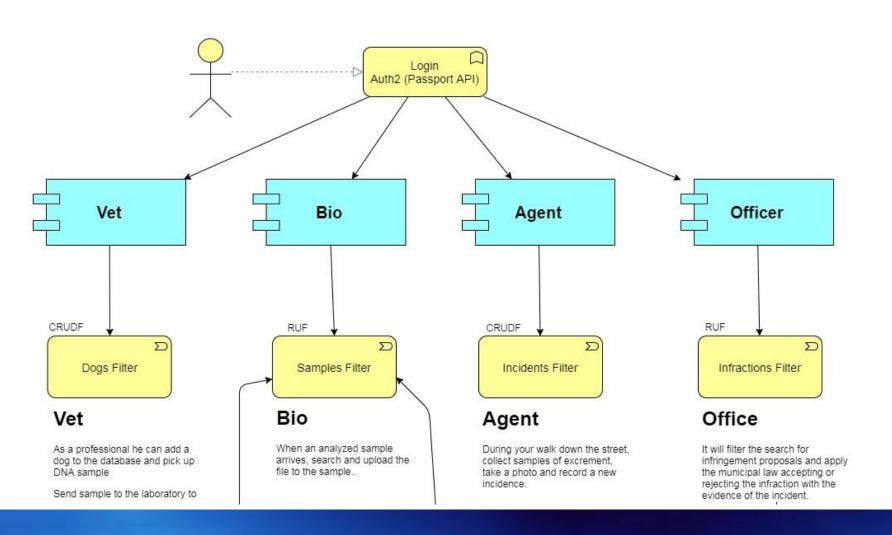


## proposed solution





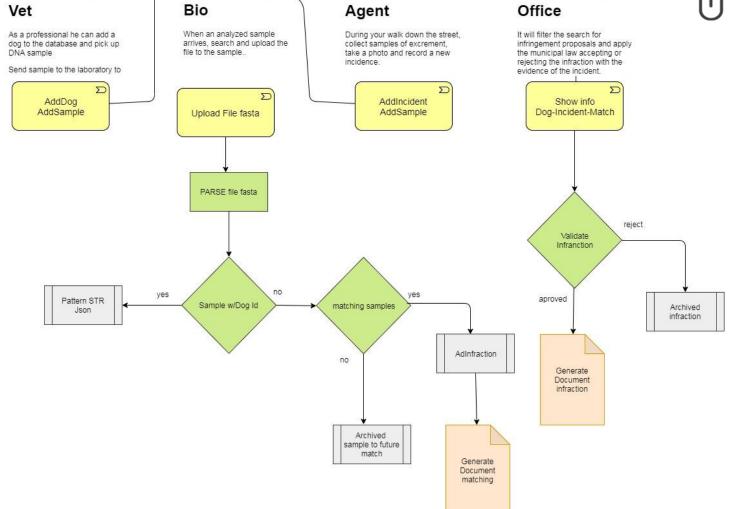






# workflow











## technologies

ocikitos

- MySQL (Phpmyadmin)
- Backend API Rest full (Laravel)
  - Generación datos (seeders/factory)
  - PassPort Auth2
  - Routes Restfull API
- Script Python
  - Generación files fasta exrex
  - Script Python Matching regex
- Frontend (Angular)
  - Consumo Rest full API
  - Angular Material
  - Boostrap
  - Ngx Barcode
  - Validaciones
  - Estructura componentes







# accessibility & usability







## Heading

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week 1

## Heading

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## Heading

week 3

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Text



















# Oscar's personal review





# Alex's personal review

