



BREEDOG.

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Objective

The objective of the project is the creation of a website for dog breeder and dog information:

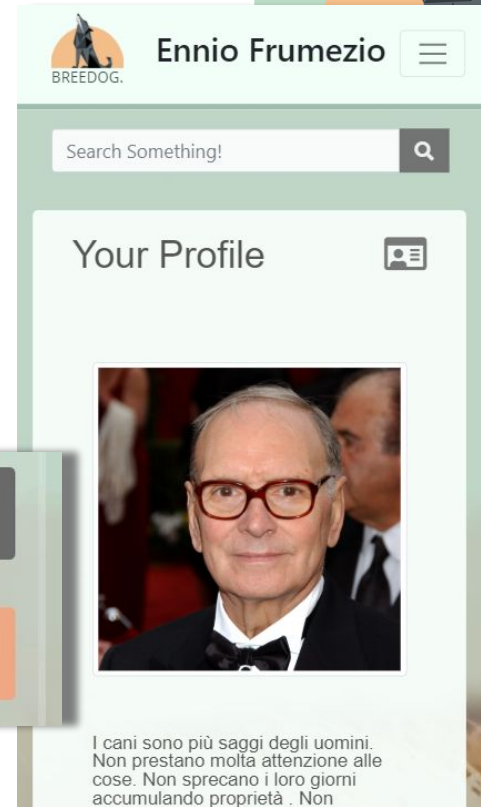
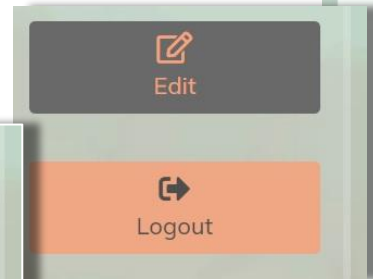
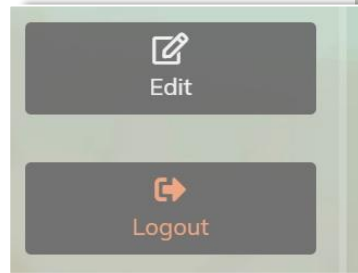
1. Designed for registered breeder
2. Info about dogs and their breeders
3. List of the events to which a dog took part to
4. Search for dogs of other breeders
5. Let non-registered user to search for an adoptable dog



Design

The design choices are made to create a interface user-friendly, readable and intuitive:

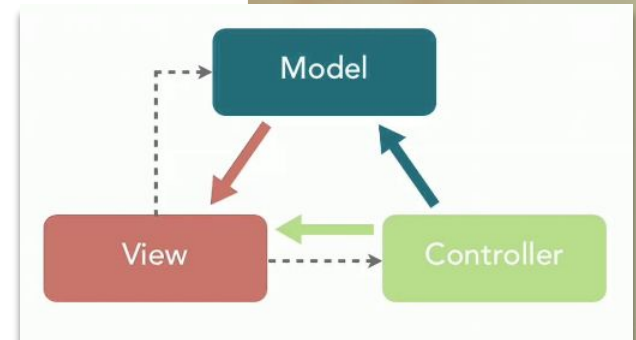
1. Color palette restricted and consistent
2. Material design icons
3. Use of buttons instead raw links
4. Mobile friendly



Model-View-Controller

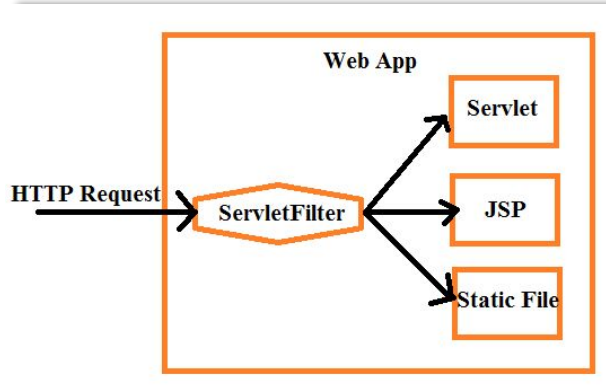
The application adopts the Model-View-Controller paradigm

- Model: access method to the data and notification of the state updates.
- View: let the user see the output of an action or the state querying the model and acts as a bridge between user and application.
- Controller: gets the user data from the View, process it and in case updates the state, communicating it to the model.



User Authentication

We implemented the user authentication using the simplest Basic Authorization header where username and password are concatenated with a colon and encoded Base64.



User pages are inside /user/* path.
Requests to this section are filtered using Java Servlet Filter that check if we already logged in.
Not logged request will be redirected to the homepage.



A login form with a light blue background. At the top, it says 'Hey, welcome back!' followed by a paw print icon. Below this are two input fields: 'Username' (with a person icon) and 'Password' (with a key icon). There is a 'Remember me' checkbox and a 'Forgot password?' link with a 'Get Help' button. A large orange 'Login' button is at the bottom. At the very bottom, it says 'Don't have an account yet? Sign-up'.

HomePage

The homepage shows all the user information and the breeds that the user own.



Your Profile



I cani hanno bisogno di annusare il terreno: è il loro modo di tenersi aggiornati sui fatti del "territorio". Il terreno è un gigantesco giornale per cani, contenente tutti i tipi di notizie canine dell'ultima ora, che, se sono particolarmente urgenti, proseguono nel terreno successivo. (Dave Barry)

Username	Diodoro72
Email	diodoro@gmail.com
Telephone	3732586142
Birthday	1972-10-18
Address	Via del frutteto,9,Latina,04100
Breeder FC	PRCDDR72R18A170D
VAT	02647100599

Your Breed

FCI Code	Group	Breed Name	Number
111	8	Golden retriever	2

Insert Dog

Breeder profile seen by another user.

Diodoro Perchinunno



Bio

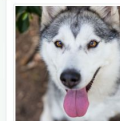
I cani hanno bisogno di annusare il terreno: è il loro modo di tenersi aggiornati sui fatti del "territorio". Il terreno è un gigantesco giornale per cani, contenente tutti i tipi di notizie canine dell'ultima ora, che, se sono particolarmente urgenti, proseguono nel terreno successivo. (Dave Barry)

Name	Diodoro
Surname	Perchinunno
Email	diodoro@gmail.com
Telephone	3732586142
Address	Via del frutteto,9,Latina,04100

Breeds

FCI Code	Group	Breed Name	Number
111	8	Golden retriever	2

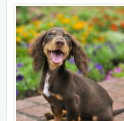
Dogs



Tobia

Male

2005-03-29



Dafne

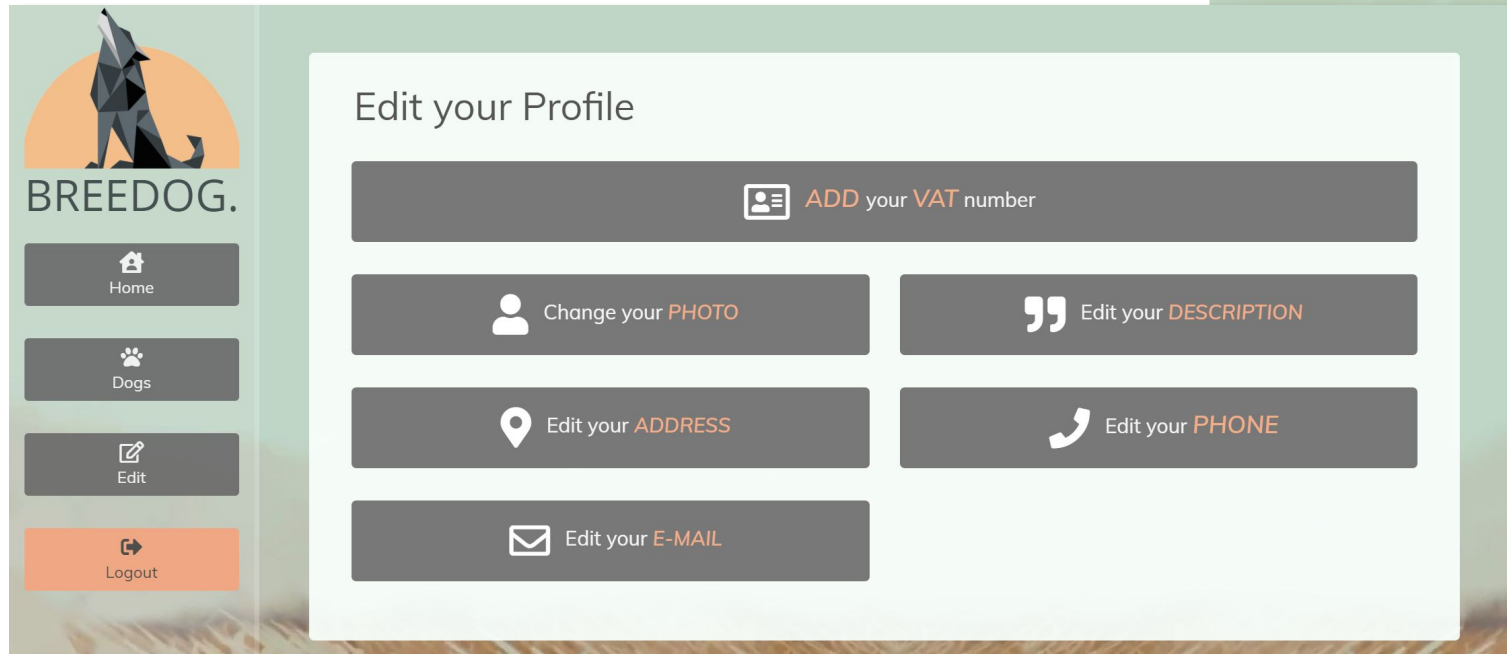
Female

2001-06-17

Breeds info.

Edit page

Provides the possibility to change user informations.
The possibility to add the vat number is only for the users that haven't registered it yet.



Edit page

The load of the breeder information is generated querying the database with the breeder fiscal code while for each insertion is used a POST request of json data.

The image is a screenshot of a web application interface for 'BREEDOG'. On the left is a vertical sidebar with a wolf logo at the top, followed by the text 'BREEDOG.' and four buttons: 'Home' (house icon), 'Dogs' (paw print icon), 'Edit' (pencil icon), and 'Logout' (logout icon). The main content area is titled 'Edit your' and contains several input fields. A modal window titled 'Edit your ADDRESS' is open in the center, featuring a close button (X) in the top right corner. This modal contains four input fields: 'Street' with the value 'Via Divisione Cuneense', 'Number' with '30', 'City' with 'Peveragno', and 'ZIP' with '12016'. Below these fields is an 'Edit' button. In the background, other buttons are visible, including 'Edit your DESCRIPTION' (with a quote icon), 'Edit your PHONE' (with a phone icon), and 'Edit your E-MAIL' (with an envelope icon). At the bottom of the main area is a 'Change settings' button.


Edit page

In the edit page there is also the possibility to change the user password. The password confirmation is verified with js while the correctness of the current password uses the authentication check.

A screenshot of a mobile application interface. On the left is a sidebar with buttons: 'Home' (house icon), 'Dogs' (paw print icon), 'Edit' (pencil icon), 'Logout' (arrow icon), and 'TOP' (up arrow icon). The main area shows a 'Change your PASSWORD' modal dialog. The modal has a title bar with the text 'Change your PASSWORD' and a close button (X). Inside the modal are three input fields labeled 'Current Password', 'New Password', and 'Confirm Password'. Below the fields is an 'Apply' button. In the background, there are buttons for 'Change your PHOTO', 'Edit your DESCRIPTION', and 'Edit your PHONE'. At the bottom of the screen, there is a dark bar with a key icon and the text 'Change your PASSWORD'.

Dog Profile Page

Peter ✎



Basic Infos

Kennel Name	Famiglia Frumezio
Microchip Code	380260043256632
Tattoo Code	LJ2E3KCNL9
Birth Date	1999-06-12
Gender	Male
Owner	Tiziano
Status	Pensione

Breed

FCI Code	111
Group	8
Breed Name	Golden retriever

Traits

Height	61.0 cm
Weight	38.0 Kg
Coat Color	Bianco
Character	Attento e vigile
Teeth Structure	Normali
Particular Sign	

The dog home page can be subdivided into :

- Dog basic informations
- Pathology
- Awards
- Genealogy

Pathology ✎

Code	Name	Severity
4053	Displasia dei gomiti	D

Awards ✎

Show Victory Only ☐

Competition	Type	Event
PLTHSGN	Show	0000000002

Parents

Name	Microchip	Role

Sons ✎

Name	Microchip	Birth
Tobia	380260000000000	2005-03-29



Almost one query per category


Show Victory Only ☒

Slider to show only victory


Dog Profile Page



Modals to show competitions and events extra information.

Pathology 


Code	Name	Severity
4053	Displasia dei gomiti	D

Awards 

Show Victory Only ☐

Competition	Type	Event
PLTHSGN	Show	0000000002

Parents

Name	Microchip	Role
Sons 		
Name	Microchip	Birth
Tobia	3802600000000000	2005-03-29

Competition Info ×

ID

PLTHSGN

Type

Show

Group

8

Class

Campioni

Won

Yes

Event Info ×

ID

0000000002

Location

Verona

Begin

2018-11-14

Finish

2018-11-16

Zip


37100

Dog Profile Page



Dynamic Modal to manage
Dog information update

Update Info



Scegli il file

Nessun file scelto

Name

Peter

Birth

12/06/1999

Owner

Tiziano

Status

Retired

Height

61.0

Weight

38.0

Color

Bianco

Character

Attento e vigile

Teeth

Normali

Sign

Save Changes

Update Competitions

Action

Add Competition

Competition ID

Competition Type

Select Type

Competition Group

Select Group

Competition Class

Select Class

Competition Won

Choose Yes/No

Event ID

Event Location

Event Begin

gg/mm/aaaa

Event Finish

gg/mm/aaaa

Event Zip

Add Competition

Pathology

Edit Pathology

Action

Add Pathology

Pathology

Enter a pathology

Severity

Select pathology severity

Add Pathology

Update Sons

Action

Add Son

Microchip

Add Son

Insertion page

It permits the insertion of a new dog from the breeder logged into the application. It uses a JavaScript form control and sends information to the server through JSON data with a POST request.



The screenshot shows the 'INSERT A NEW DOG' form in the BREEDOG application. On the left is a sidebar with the application logo and navigation buttons. The main area contains a form with two sections: 'Identifiers' and 'Genealogy'.

BREEDOG.

Home

Dogs

Edit

Logout

INSERT A NEW DOG

Identifiers

Microchip:

Enter the dog microchip

Tattoo code:

Tattoo code

Genealogy

Kennel name:

Enter the kennel name

Father microchip:

Enter the father microchip

Mother microchip:

Enter the mother microchip

Dog name:

Name

Insertion page

The HTTP request is triggered by the press of the submit button. The request is handled by a Java Servlet that creates the object to parse to the database. After a successful insertion the user is redirect to the home page.

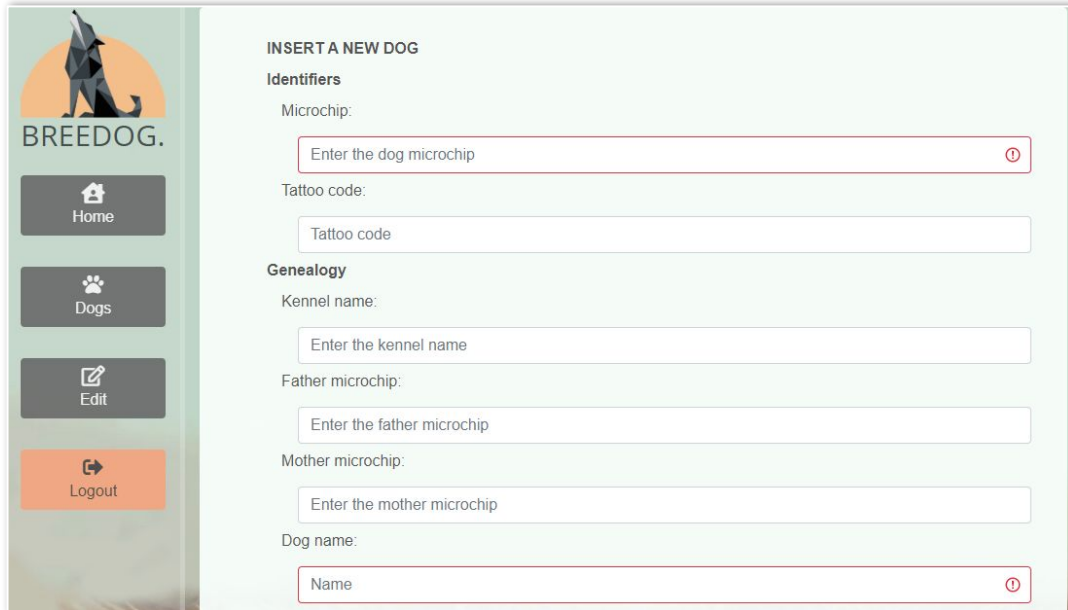


The screenshot shows a web form for inserting a new dog. It features a light green main area with a brown sidebar on the left. At the top of the form, there is a 'Photo:' label followed by a 'Choose File' button and the text 'No file chosen'. Below this is a square placeholder containing a stylized illustration of a grey wolf howling against an orange semi-circle, with the word 'BREEDOG.' written in black capital letters underneath. At the bottom of the form is a wide, dark grey 'Submit' button. The left sidebar contains a small grey button with an upward arrow and the text 'TOP'.



Insertion page

A simple check is implemented in the javascript code for don't let a user insert empty parameters of dog that are mandatory. Forms of bootstrap are retrieved through javascript and they are set to invalid if their are empty.



BREEDOG.

Home

Dogs

Edit

Logout

INSERT A NEW DOG

Identifiers

Microchip:

Tattoo code:

Genealogy

Kennel name:

Father microchip:

Mother microchip:

Dog name:



Search page

Provides access to the dogs information in the database through a search page based on a query and filters.
Not registered users can only search for adoptable dogs and only see basic information.

The screenshot shows the BREEDOG website interface. On the left is a sidebar with the logo (a wolf howling at a sunset) and the text 'BREEDOG.'. Below the logo are four buttons: 'Home' (house icon), 'Dogs' (paw print icon), 'Edit' (pencil icon), and 'Logout' (door icon). The main content area has a search bar at the top with the text 'tobia'. Below the search bar, it says 'Results:' followed by a 'Filters' link and an 'Order' dropdown menu. There are three filter boxes: 'Male' (dropdown), 'Retired' (dropdown), and '42' (text input). A 'Filter' button is to the right of these boxes. Below the filters, there is a card for a dog named 'Tobia'. The card includes a photo of a husky-like dog with its tongue out. To the right of the photo, the following information is displayed: Name: **Tobia**, Gender: Male, Birth: 2005-03-29, Kannel: Del nocino, Microchip code: 380260000000000, Owner: Tommaso, FCI code: 111, Height: 62.0cm, and Weight: 35.0 Kg. At the bottom right of the card are 'Previous' and 'Next' buttons.

Search results

The search page is provided at search/ as a JSP page and the requests to the database are made through AJAX GET requests to searchDogs/.

The response from the backend is a json file containing a list of resulting resources.

The results are appended to the DOM tree of the page in article elements and only 6 dogs are shown per page, to keep the json response file small.

With the page pagination the user makes AJAX GET requests to get the next results of his query.



Previous

Next

/Kennel-WA-1.0/user/dog.html?dogmc=380293294293023

Search query

The query to the database has a variable number of instruction to satisfy different queries and different type of users.



```
1  select *
2  from dog
3  where
4
5  ? IS NULL OR to_tsvector(microchip || ' ' || name || ' ' || kennel || ' ' ||
6  coat || ' ' || character || ' ' || owner || ' ' || breederfc) @@ to_tsquery(?)
7
8  AND (? IS NULL OR SEX = ?::gender)
9  AND (? IS NULL OR STATUS = ?::dogstatus )
10 AND (? IS NULL OR STATUS = 'Adottabile')
11 AND (? IS NULL OR DATE_PART('year', CURRENT_DATE) -
12   - DATE_PART('year', birth::date) < ?::INTEGER) ";
13  [...]
14  + " ORDER BY birth ?
15  LIMIT ? OFFSET ?;
```