

MISSING PETS

MOBILE APPLICATION AND
CLOUD COMPUTING



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MAIN GOALS

AUTHENTICATION

(sign up – login – logout)

LATEST ANNOUNCEMENTS

(in order of publication date)

SCAN & MATCH

(matching with ML algorithm)

NEW ANNOUNCEMENT

(insertion of relevant informations)

CHAT

(to communicate with pet owners)

PROFILE

(logged user's own announcements)

MOCKUPS



Missing
? Pets

Sign Up

* Username:

* Email:

* Password:

* Re-type password:

Register



Missing
? Pets

Sign In

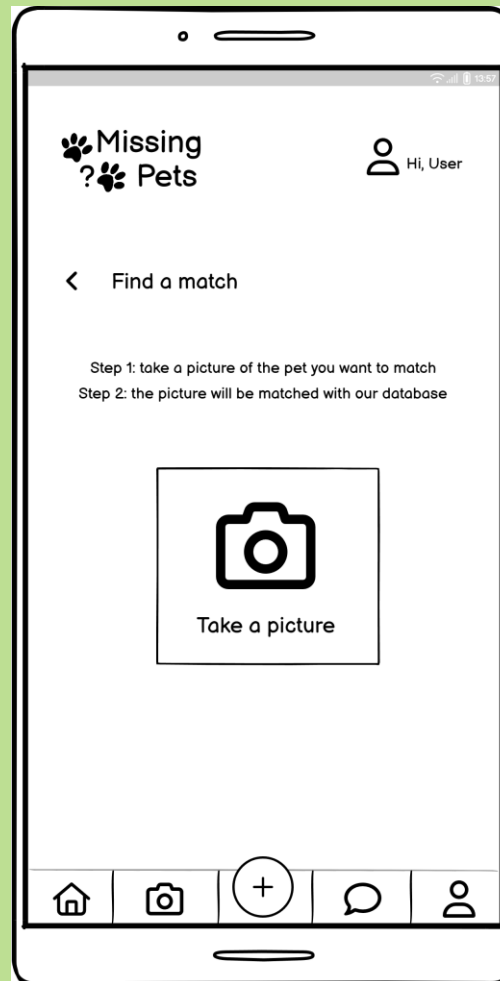
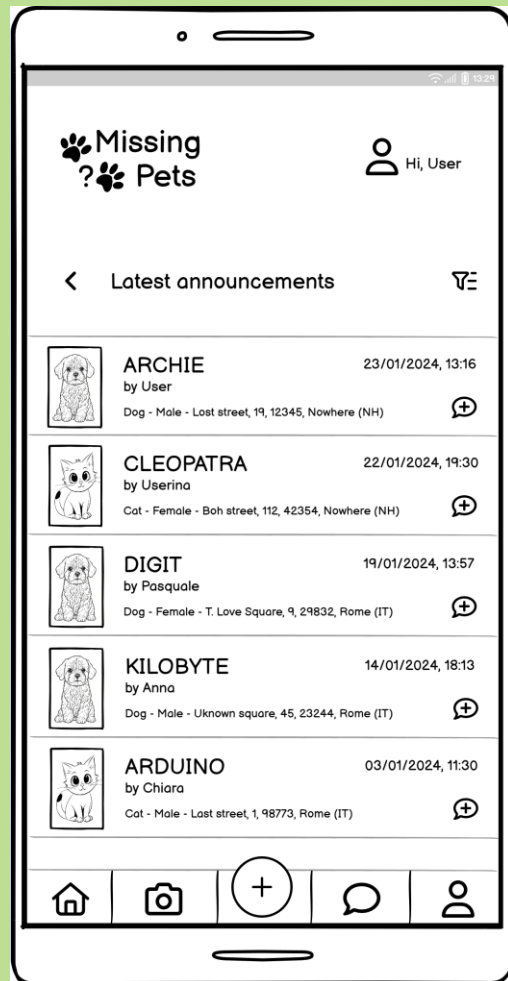
* Username:

* Email:

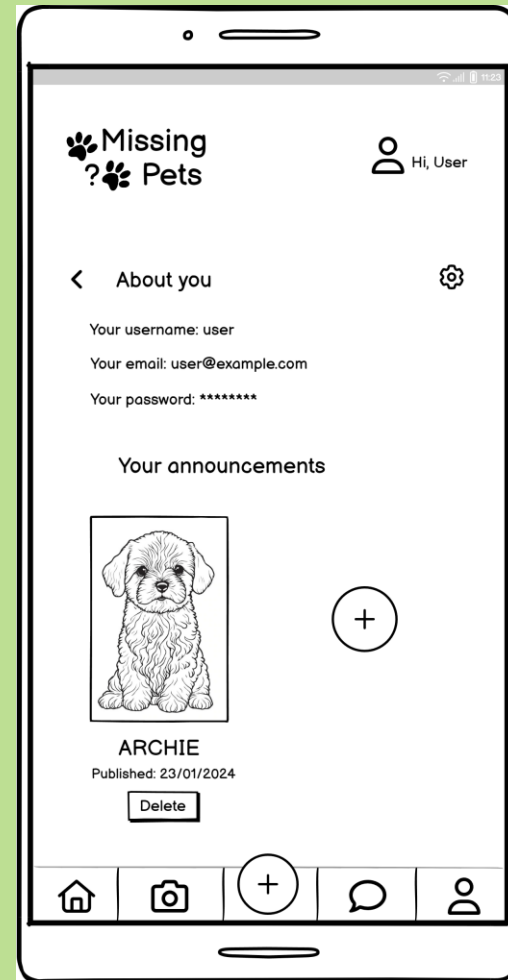
* Password:

Enter

MOCKUPS



MOCKUPS



TOOLS

ANDROID STUDIO IDE

| *Kotlin*, as programming language |

CLOUD SERVICES

| *Google Firebase*, for the authentication |

| *PythonAnywhere PaaS*, to host Python code |

PRE-TRAINED VGG MODEL

| *Tensorflow* library |

DATABASE STRUCTURE

USERS are stored on **Firestore**, with fields:

UID (automatically generated) - username – email – passwords

POSTS are stored in **MySQL Database** on **PythonAnywhere**, with fields:

post_id, user_id, pet_name, pet_type, date, position, address, description

CHAT_MESSAGES are stored in **MySQL Database** on **PythonAnywhere**, with fields:

message_id, sender_id, sender_username, receiver_id, receiver_username, message –
timestamp

CHATS are stored in **MySQL Database** on **PythonAnywhere**, with fields:

chat_id, last_sender_id, last_sender_username, last_receiver_id, last_receiver_username,
last_message, timestamp, unread

DEMO

LET'S TRY!

