## Mercy Application



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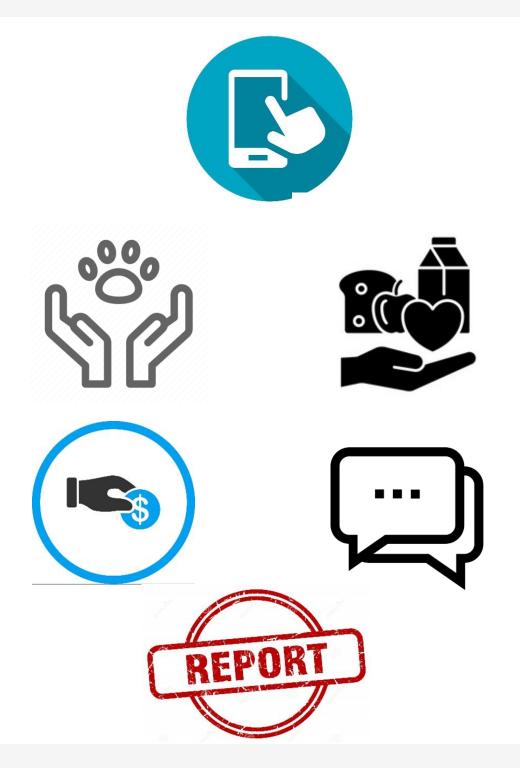
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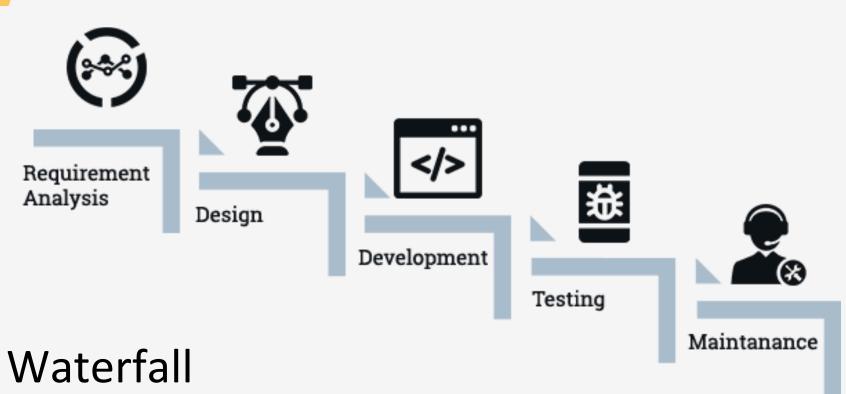
# O1Problemdefinition

- Donate
- Ask for a donation
- Adoption
- Offer Pets for adoption
- Help stray animals



## 02 Solution

## 03 Our Approach









### Lucidchart



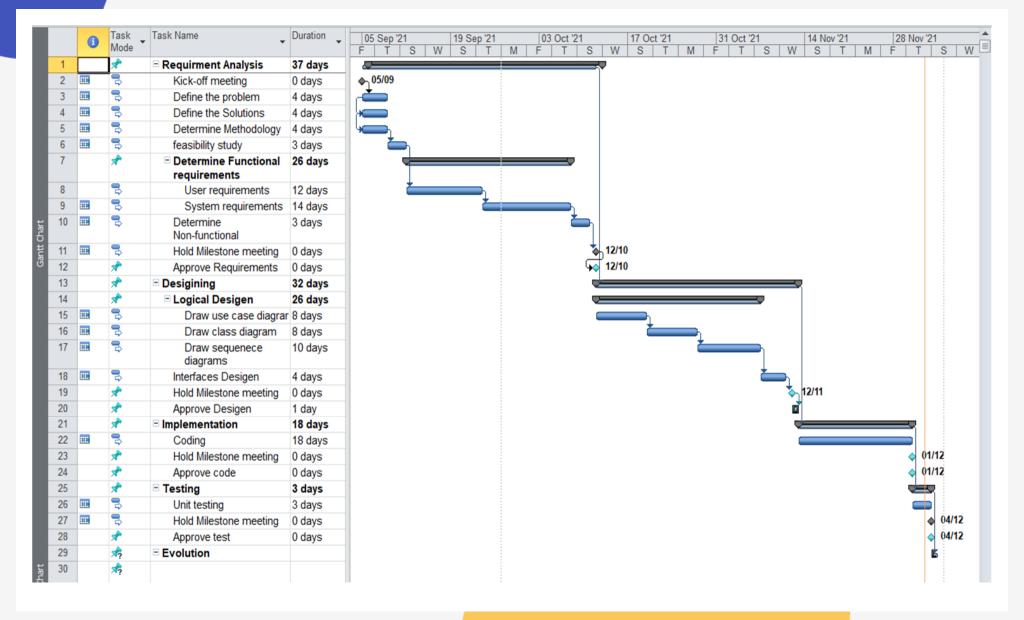






04 Tools

## 05 Process



## 06

## Functional Requirements

User Requirements

- The user shall be able to register as pet owner or a customer
- The user shall be able to login by username and password
- The user shall be able to chat with other users
- The user shall be able to report stray pets
- The customer shall be able to donate money to pet owners from donation request
- The customer shall be able to donate supplies to pet owners from donation request
- The pet owners shall be able to acquire donated supplies from the customers
- The pet owner shall be able to request supply donation by filling a form
- The pet owners shall be able to confirm donated supplies from customers

- The system shall allow users to register only as pet owner user or customer user
- The system shall only accept unique username from user
- The system shall verify user password before login
- The system shall display features once the user login by username and password
- The system shall alert the pet owner by notification once a customer donates a supply
- The system shall update available offered pet for adoption page, once a pet owner confirms the adoption of the pet
- The system shall send the adoption form to the pet owner once the customer submits the form
- The system shall open a chat between the pet owner and the customer once the pet owner accepted the pet adoption request

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## Functional Requirements

System Requirements



## Portability



Usability



Security



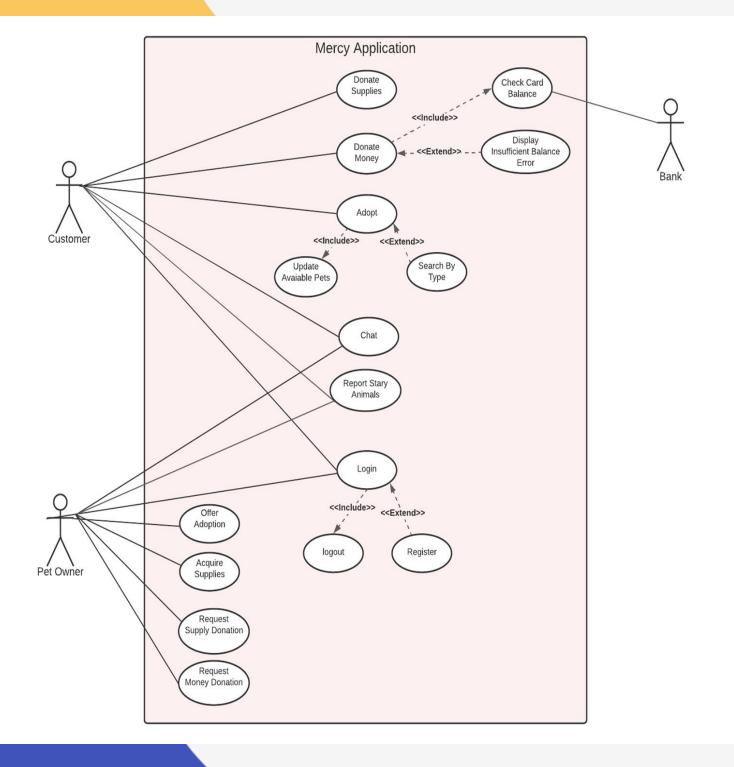
Performance



Maintainability

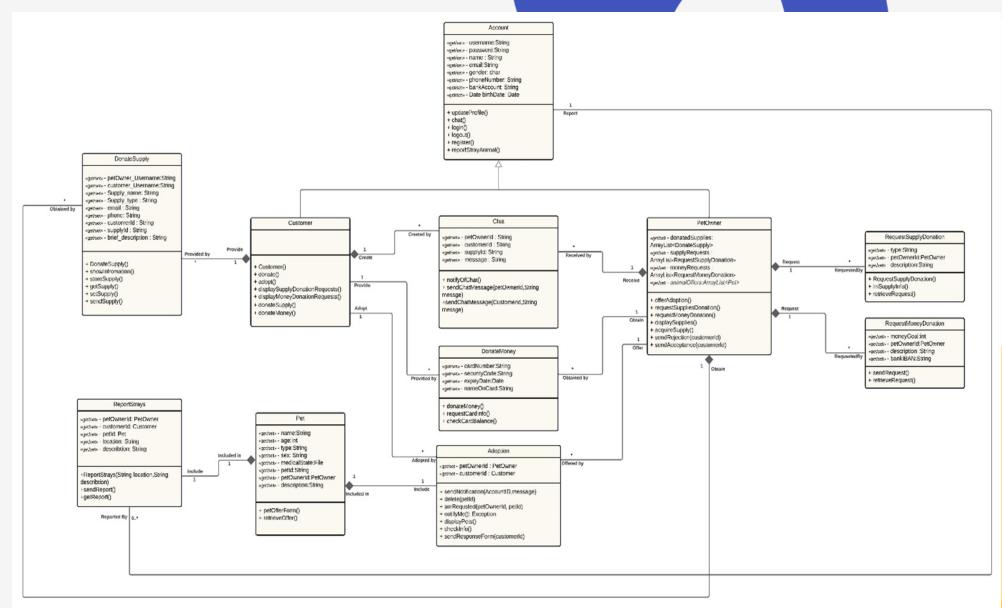
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Non Functional Requirements



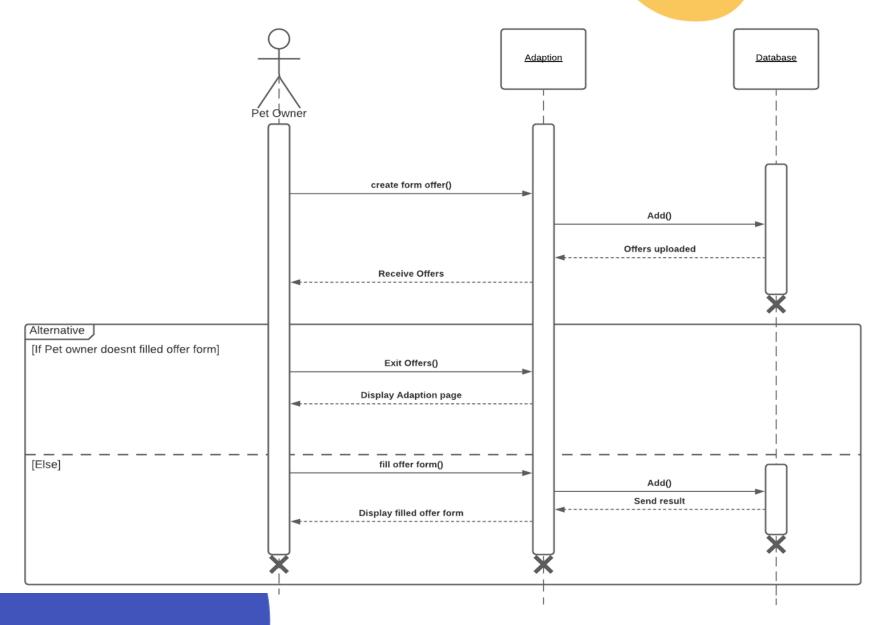
# 08 Use case Diagram

## 09 Class Diagram

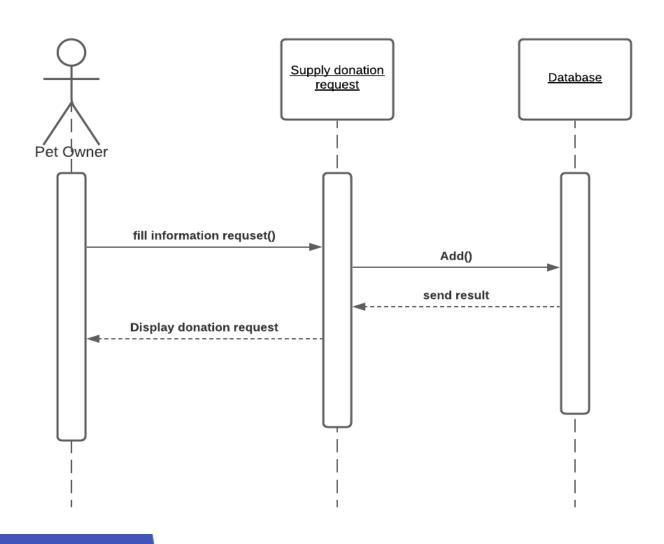


## 10Sequence Diagrams

## Offer Adoption



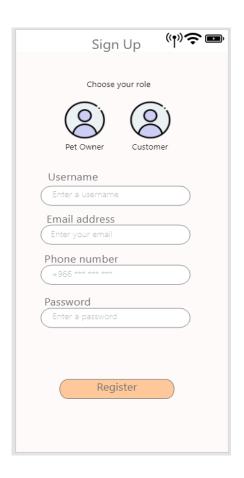
### Request Supply Donation



## 11Interfaces Design

#### • Login/Register Interfaces:

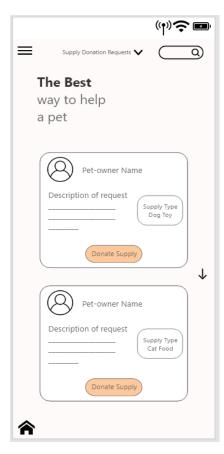


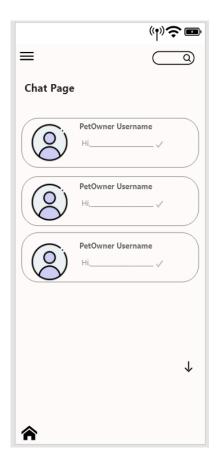


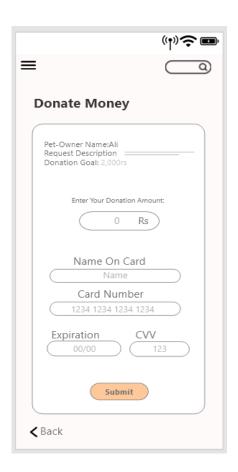
#### • Customer Interfaces:

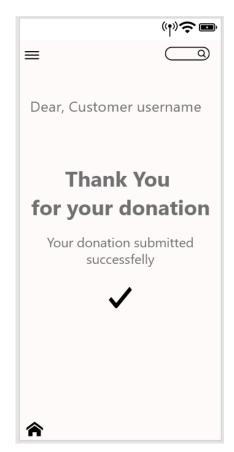


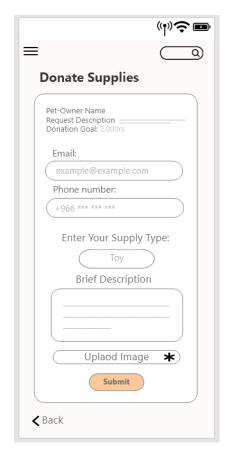


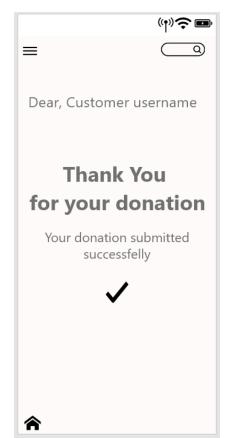


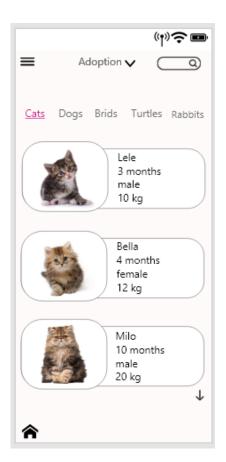






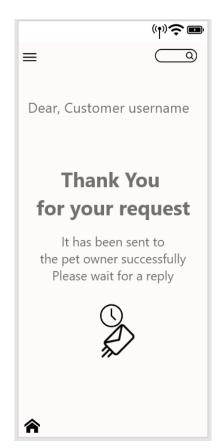




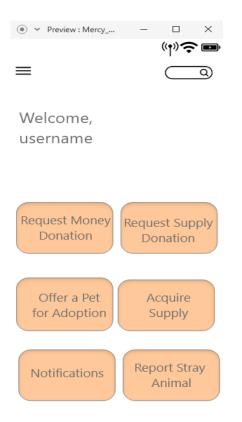


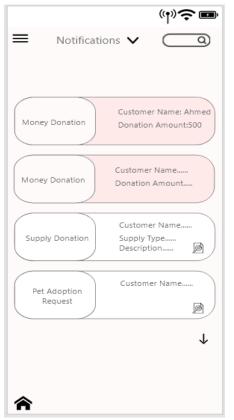




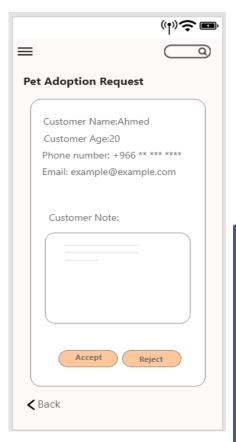


#### • Pet Owner Interfaces:

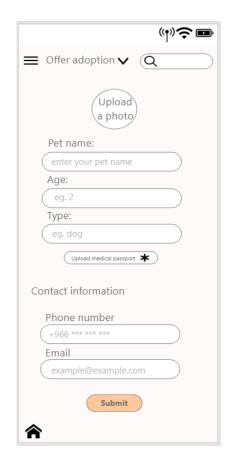


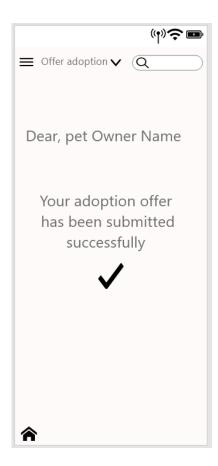


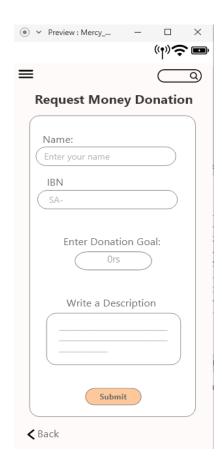


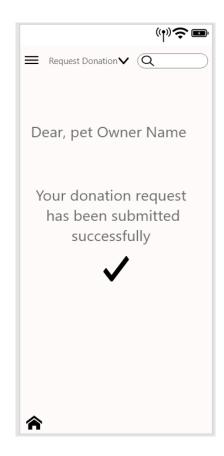






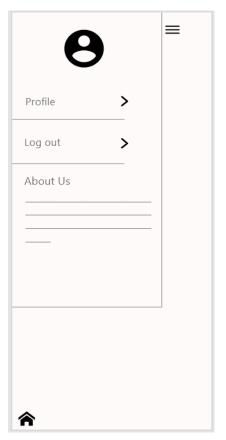


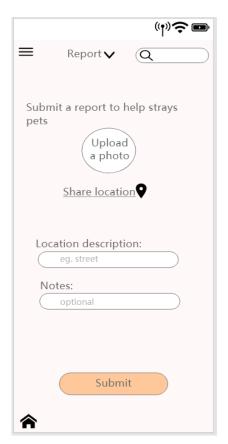


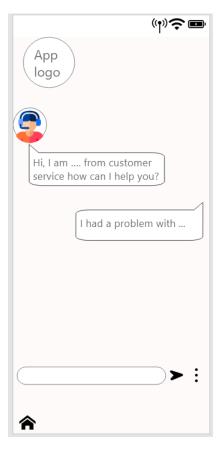


#### • Shared Interfaces:









## 12 Running Code

## Running Code

```
-- you have to log in to use any feature in the system --
    ----- Log in -----
Your Username : Reeml0
Your password : 1235
.... Wrong password or username!!! try again ....
-- you have to log in to use any feature in the system --
    ----- Log in ------
Your Username : Reemal0
Your password : 1234
------ Successfully log in -----------
 1. Request supply donation
2. Offer adoption
3. Acquire Supply
4. log out
Choose a function :
```

you have to log in to use any feature in the system
Log in
Your Username : Reemal0
Your password : 1234
Successfully log in
1. Request supply donation
2. Offer adoption
3. Acquire Supply
4. log out
Choose a function : 1
Request Donation Form
Enter Your Supply Type: food
Write a Description: I can't effort food for my cat, cat food is n't available in my city these days I live in
Dear, Reema
Your donation request has been submitted successfully
1. Request supply donation
2. Offer adoption
3. Acquire Supply
4. log out
Choose a function : 4
Thank you for using our app
you have to log in to use any feature in the system
Log in
Your Username :

```
Your Username : JeeOt
Your password : 1234
..... Successfully log in ......
1. donate
2. adopt
3. log out
Choose a function : 1
------Donation Requests-----
       .... The Best way to help a pet....
Choose Donation Type:
1. Display Money Donation Requests(not Available)
2. Display Donate Supply Donation Requests
Enter your choice: 2
_____
Pet Owner Name: Shatha
 Description of request:
I need cat toys, any toy would be helpful
 Supply Type: Toy
_____
Pet Owner Name: Manar
Description of request:
I need dog for my 5 month old dog
 Supply Type: Food
Pet Owner Name: Reema
 Description of request:
 I can't effort food for my cat, cat food is n't available in my city these days I live in ...
 Supply Type: food
Type (quit) to exit or choose a number of the pet owner to donate: 3
------Donate Supply Form-----
Please Fill supply information
Enter supply type: food
Enter supply name: Meow Mix
Enter supply descrption: mix of chicken , turky and ocean fish
Enter your Email: JeeO@gmail.com
Enter your Phone Number: 0599866666
Dear, Customer Jeelan
Thank You for your donation
 Your donation submitted successfully
```

----- Log in -----

```
do {
   System.out.println("\n....\n");
   System.out.println("1. Request supply donation\n2. Offer adoption\n3. Acquire Supply\n4. log out\n");
   System.out.print("Choose a function : ");
   command = s.nextLine().trim();
   switch (command) {
       case "1":
          petowner.requestSuppliesDonation();
          break;
       case "2":
          petowner.offerAdoption(s);
          break;
       case "3":
          petowner.acquireSupply();
          break;
} while (!command.equalsIgnoreCase("4"));
System.out.println("\n\n ... Thank you for using our app ... \n ");
```

```
public class RequestSupplyDonation {
   String type;
    PetOwner petOwnerId;
   String description;
    public RequestSupplyDonation() {
    public RequestSupplyDonation(PetOwner username) {
        this.petOwnerId = username;
        Scanner s = new Scanner(System.in);
        System.out.println("\n-----Request Donation Form-----\n");
        System.out.print("Enter Your Supply Type: ");
        this.type = s.nextLine().trim();
        System.out.print("Write a Description: ");
        this.description = s.nextLine().trim();
```

## 13 Testing

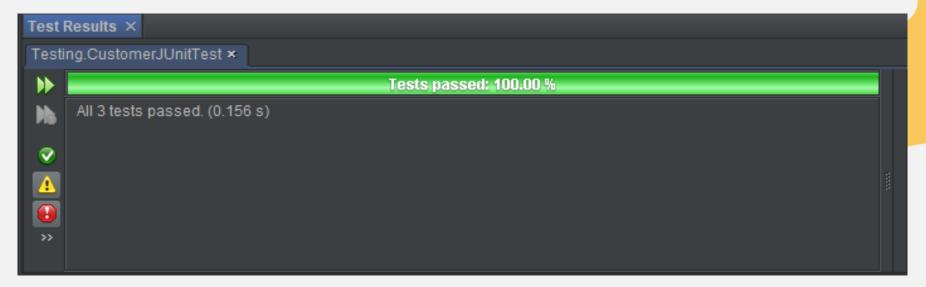
## **Testing Code**

#### Pet owner class:

- reqSupplyDonationTest():To check if the method add the donation supply request in the donationSupplyRequets arrayList
- offerAdoptionTest(): Check if method successfully add the pet in the petOffers arraylist
- addDonatedSuppliesTest():To ensure that the method add the supply that donate by customer to donatedSupplies arraylist
- acquireSupplyTest():check if method display all supplies that donated by customer to pet owner

## **Testing Code**

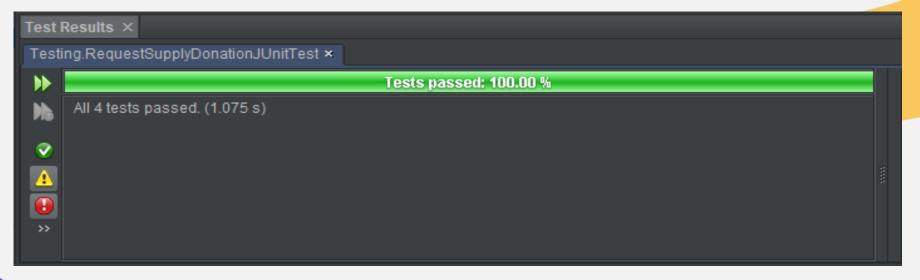
#### **Customer class:**



- Adopttest(): to ensure that all offers of pet adoption are displayed to the customer
- displaySupplyDonationRequeststest():to ensure that all donation request are displayed to the customer
- DonateSupplyTest(): To check if the donated supply is added into the pet owner request successfully or not

## **Testing Code**

#### Request Supply Donation class:



- retrieveRequestTest():ensure that the method return the right information of supply request
- getTypeTest():ensure that the method return the type of the supply
- getDescriptionTest():ensure that the method return the supple description of the supply

## 14 Challenges



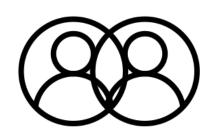






## 15 Conclusion

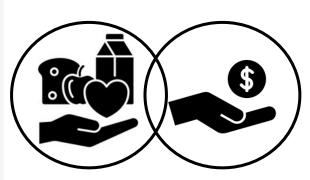
Every animal deserves to be happy, to have good owners and to live in a suitable environment.



Merging pet owner and customer account



Add gallery of animals in the user account



Merging the two types of requests into one feature



open a shop within the application featuring offered pets and supplies to buy

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Future works

## Thank You For listening