



Mahidol University

ITCS371 Introduction to Software Engineering

Project Phase 2: Report

Presented to

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Faculty of Information and Communication Technology
Mahidol University, Semester 1/2022

Preface

Dear Instructors,

We are writing this report as a part of ITCS371 Introduction to Software Engineering course at Faculty of ICT, Mahidol University. The purpose of this report is to provide the overall information of the project phase 2 that we have done.

Sincerely,

Haowen	Yang
Teerapat	Burasotikul
Thanawat	Kanjanapoo
Phawat	Rittarkananone
Thanakorn	Charoenritthitham
Yunduo	Luo

Faculty of ICT, Mahidol University

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Revision of Phase 1

The content below shows the work from phase 1 report that was revised. You can find more details in the RevisionLog.md file which part of the phase 1 are revised.

Requirement Gathering

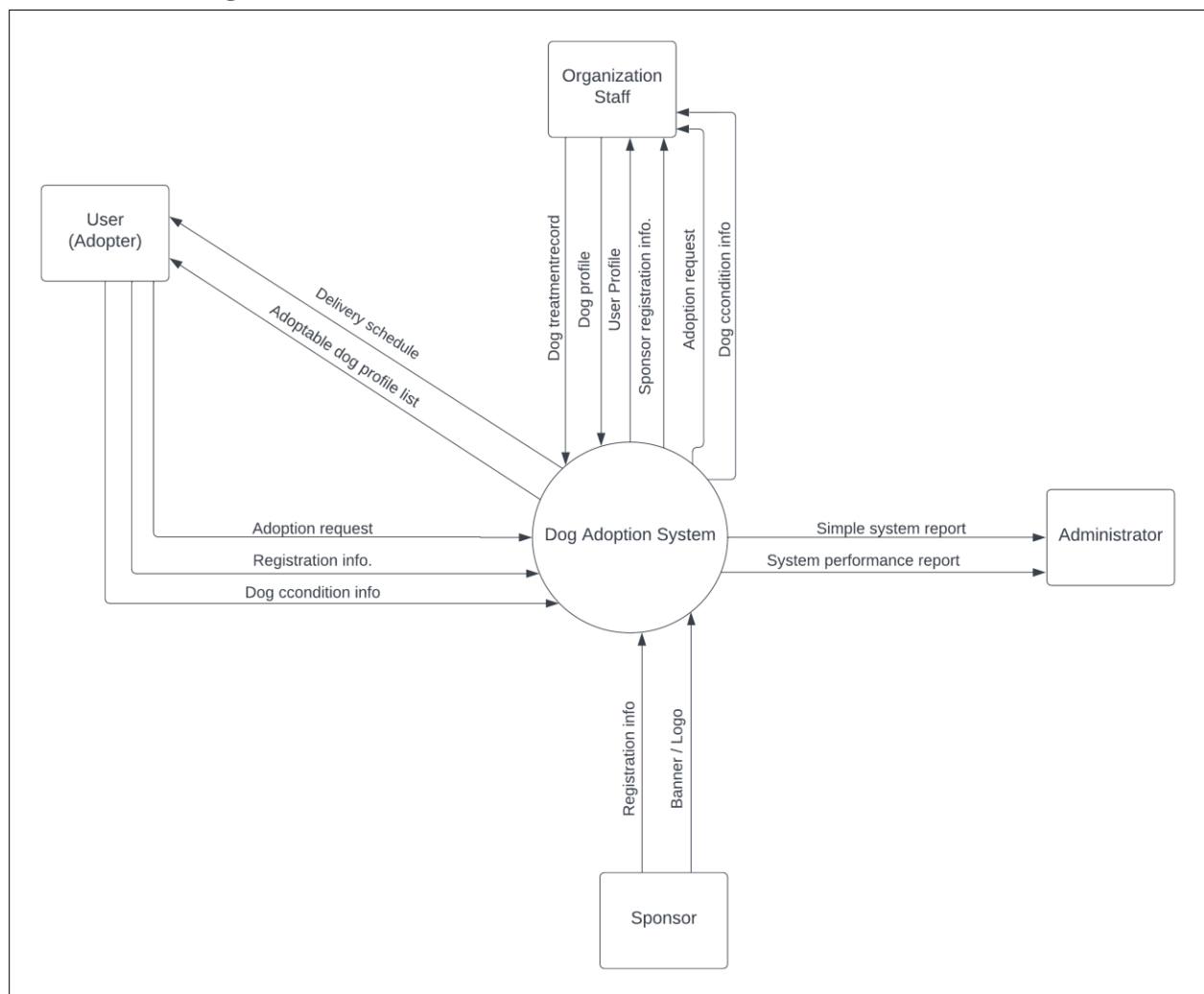
Functional

- Dog profile management
 - The organization staff can register the dog on the system
 - The system asks for input such as breed, health, color, medical profile
 - The dog must prepare before users can adopt so they need to have treatment record first.
 - The organization staff can add the dog's treatment record to the dog profile
 - The organization staff approve the profile and then appear on the website
 - At the front-end the user can search for the particular type of dog or general dog
- Adoption process
 - User must pass the registration process which verifies by the organization to be able to adopt the dog.
 - Users need to provide their citizen id, address, and essay of how ready they are then organization staff will validate the user profile
 - Users can mark the favorite dog.
 - Users can send the request of dog that they want to the system then it sends to the organization staff will see.
 - If one dog has many adopters that would like to adopt the organization staff will select the most suitable adopter.
 - The system must be ensured that there is no more adoption request after adopter was approve.
 - The system must have the function that provide the delivery schedule for the user
- Verification process
 - Organization staff have to check user citizen profile from user along with the external system
 - Require external system
 - Criminal record from the police
 - Check blacklist on pet adoption blacklist on NGO database
- The organization staff can see the user's profile when they sent the request
- The admin staff can look for report form the system
- Sponsors can register and login to the system, but the organization staff must approve those sponsors.
- Sponsor can upload the banner that they want to the system
- The system must show the banner or logo of the sponsors on the website
- After adopter got the dog in the first year every month the organization staff have to check the dog condition so the user should do like post the picture
- The dog profile on the website must show the picture, name, some special characteristics

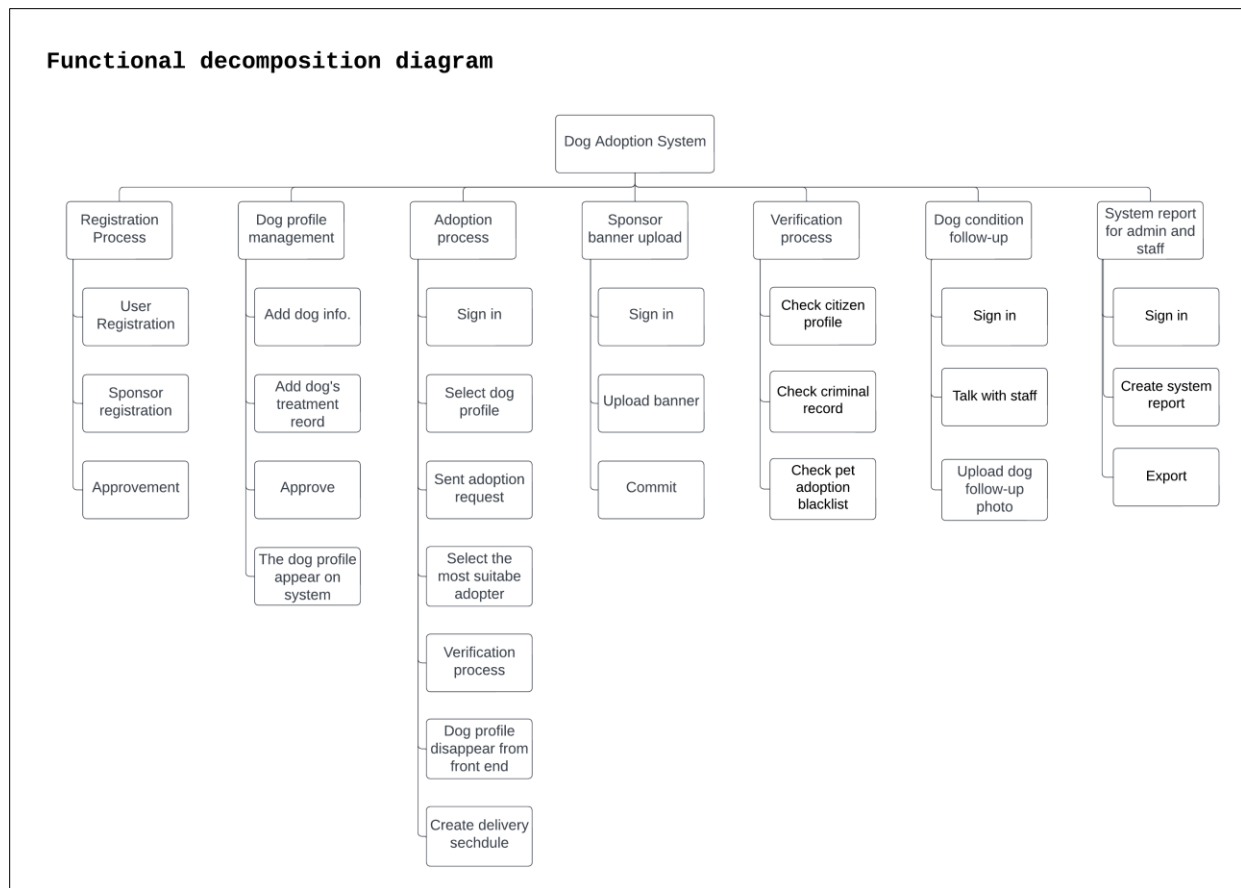
Non-functional

- This service run only on website base
- The website must be easy to use for all age groups
- The report that admin can see show the general information of the website such as the number of dog available, list of users, etc.
- The organization provide only one size for the sponsor banner or logo
- During the day the system should be able to handle transaction around 1000 across the day include viewing the dog as well.
- The system must be prepared for the security aspect
- Color theme of the organization is blue and white
- The website can show the high resolution of the dog picture

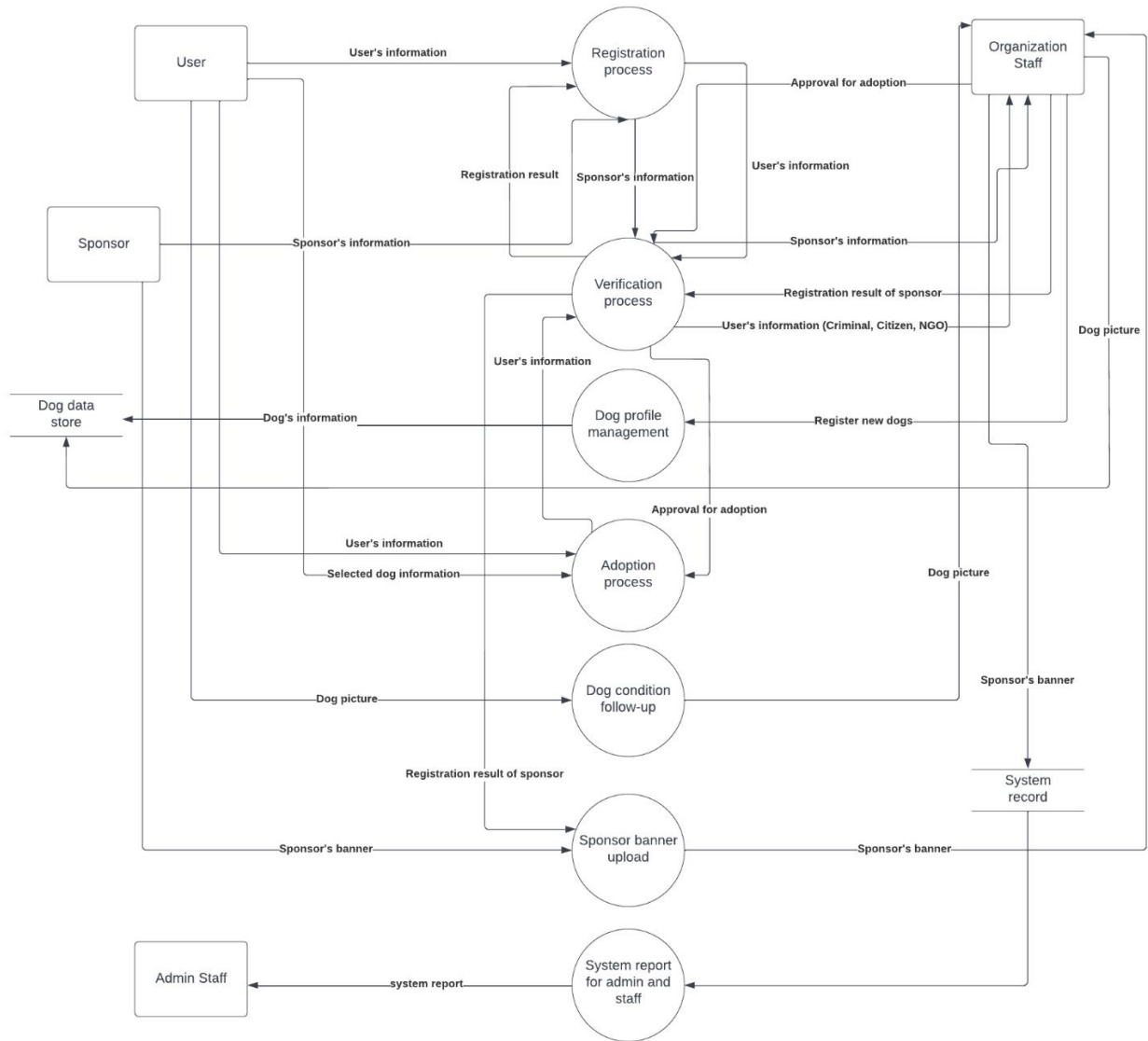
DFD Level 0 Diagram



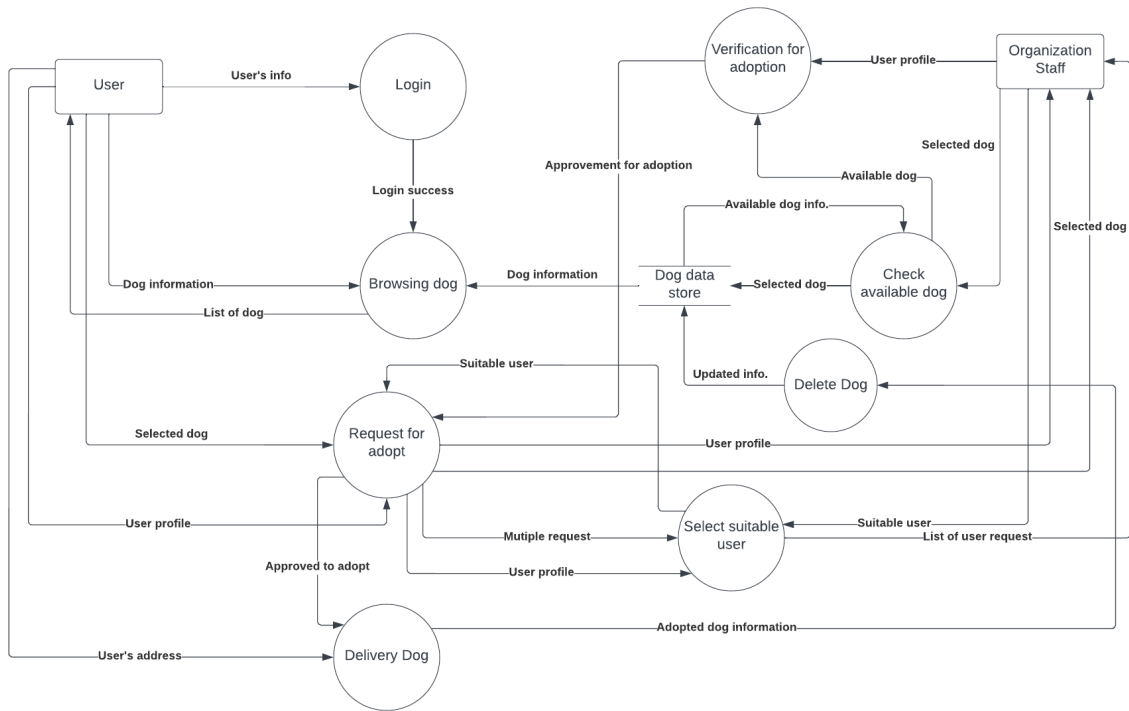
Functional decomposition diagram



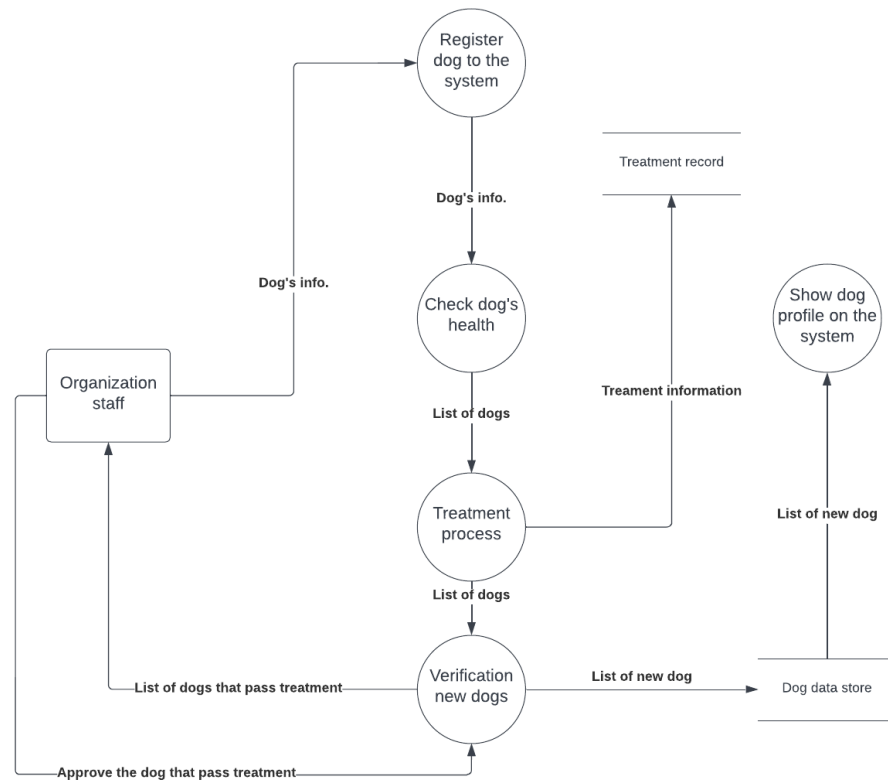
DFD level 1



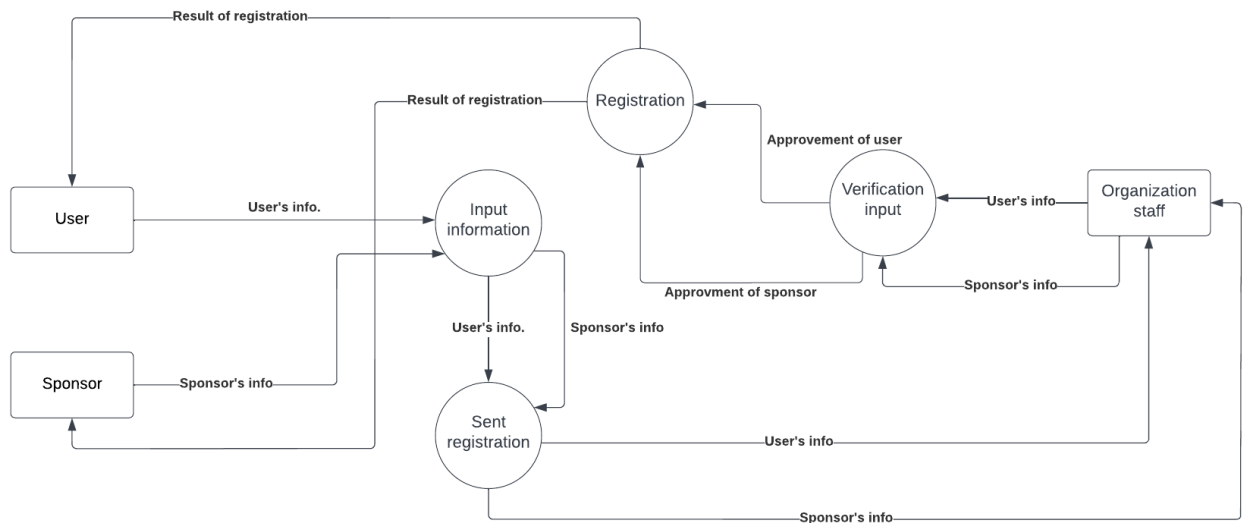
DFD level 2 of adoption process



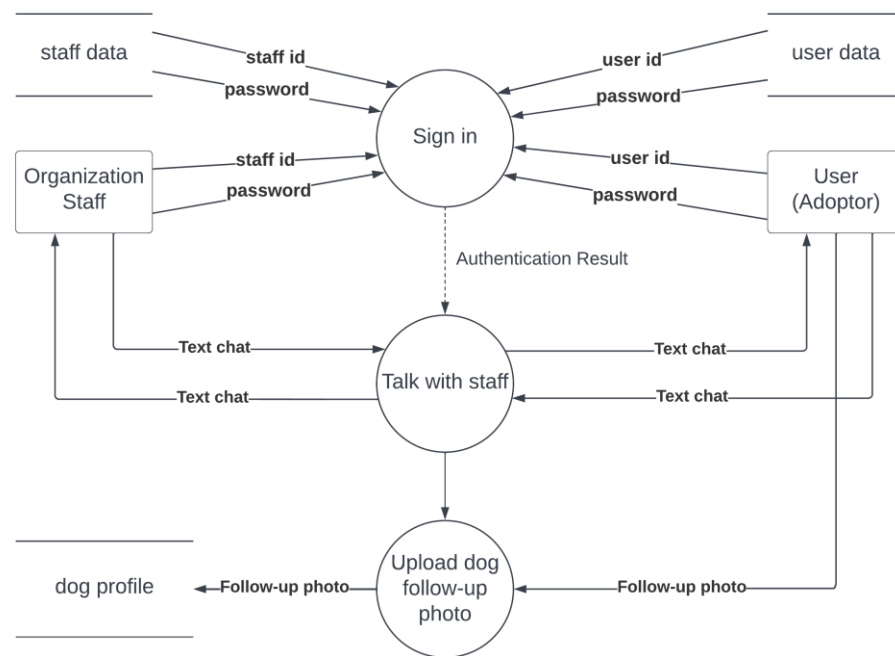
DFD level 2 of dog profile management



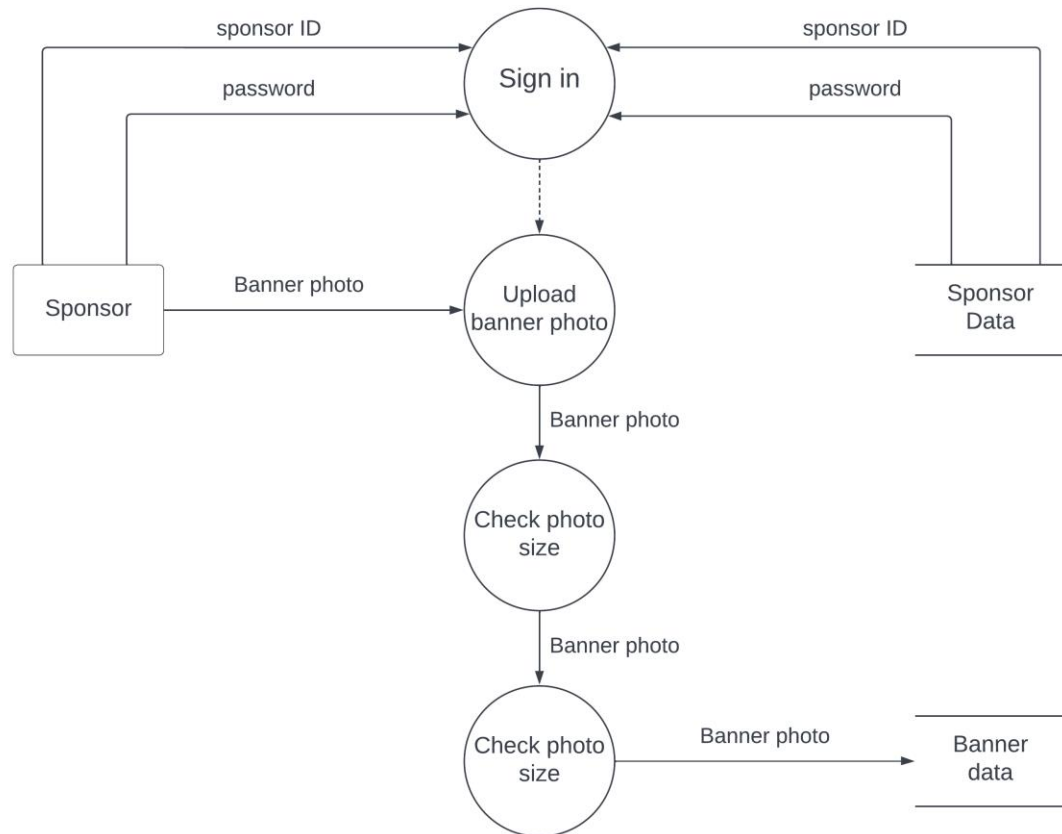
DFD level 2 of registration process



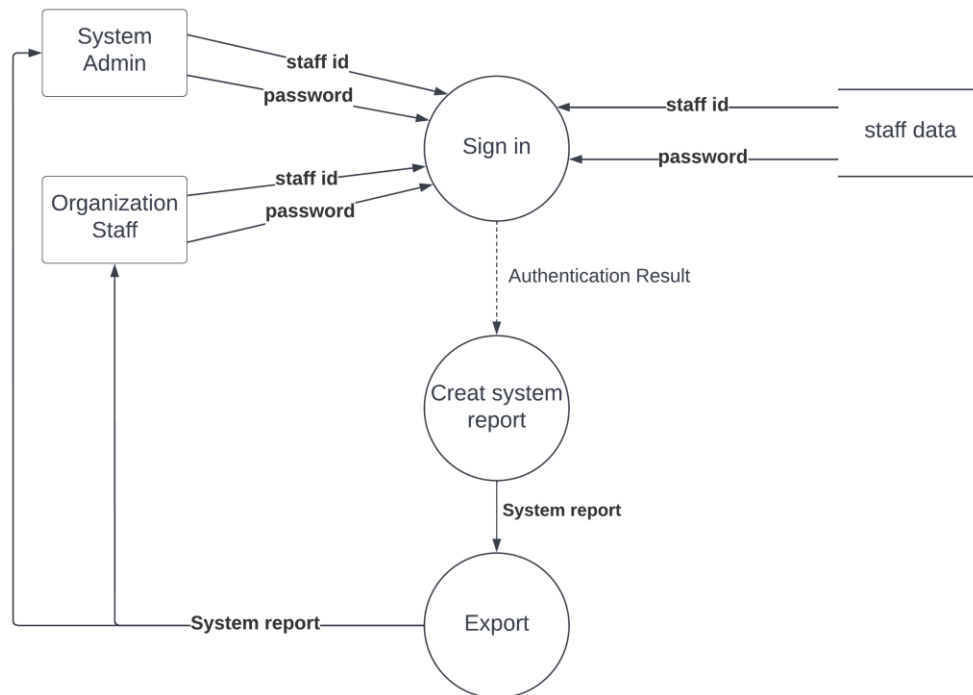
DFD level 2 of Dog condition follow-up



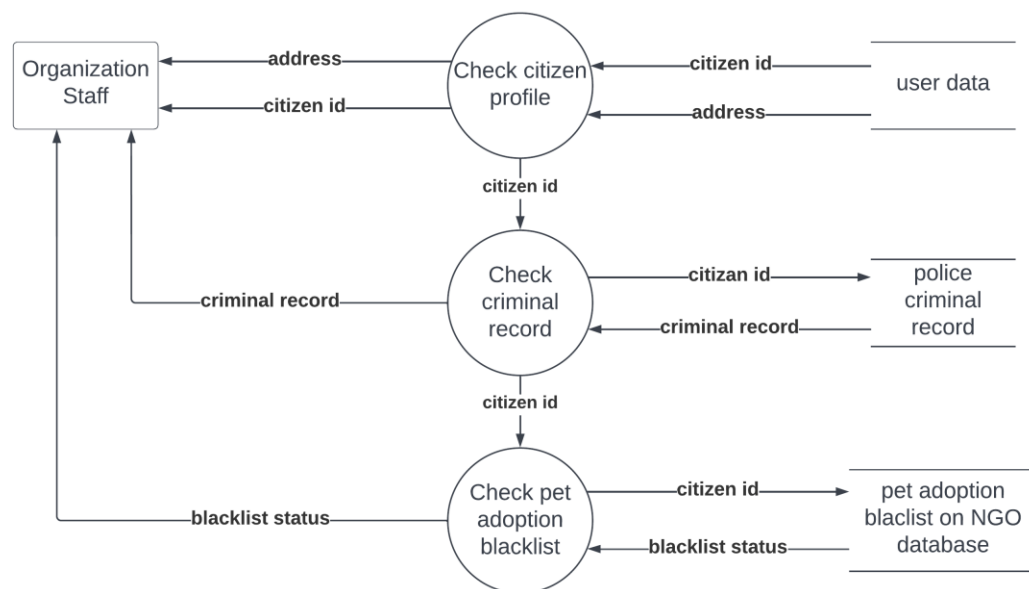
DFD level 2 of Sponsor Banner Upload



DFD level 2 of system report for staff and admin




DFD level 2 of Verification process



Mock-up Prototype

- Login & Registration process



Sign In


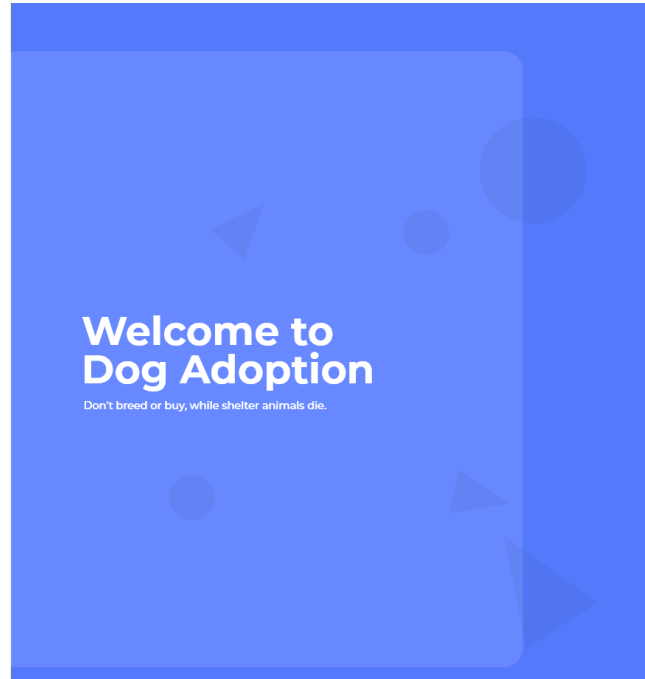
Citizen ID
Type your Citizen ID

Password
Type your password

☐ Remember me [Reset Password!](#)

Login

Don't have an account? [Sign Up Now](#)




Sign Up

Citizen ID
Type your Citizen ID

Password
Type your password

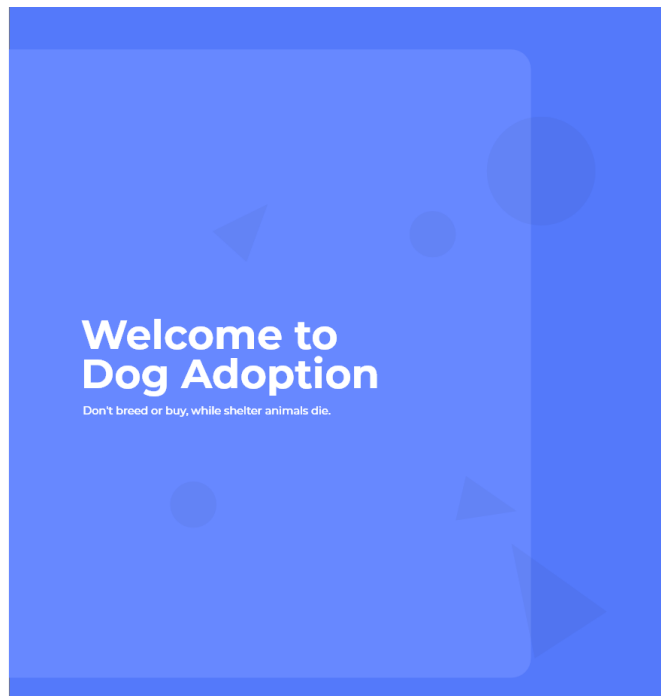
Repeat Password
Type your password

Current Address
Type your current address

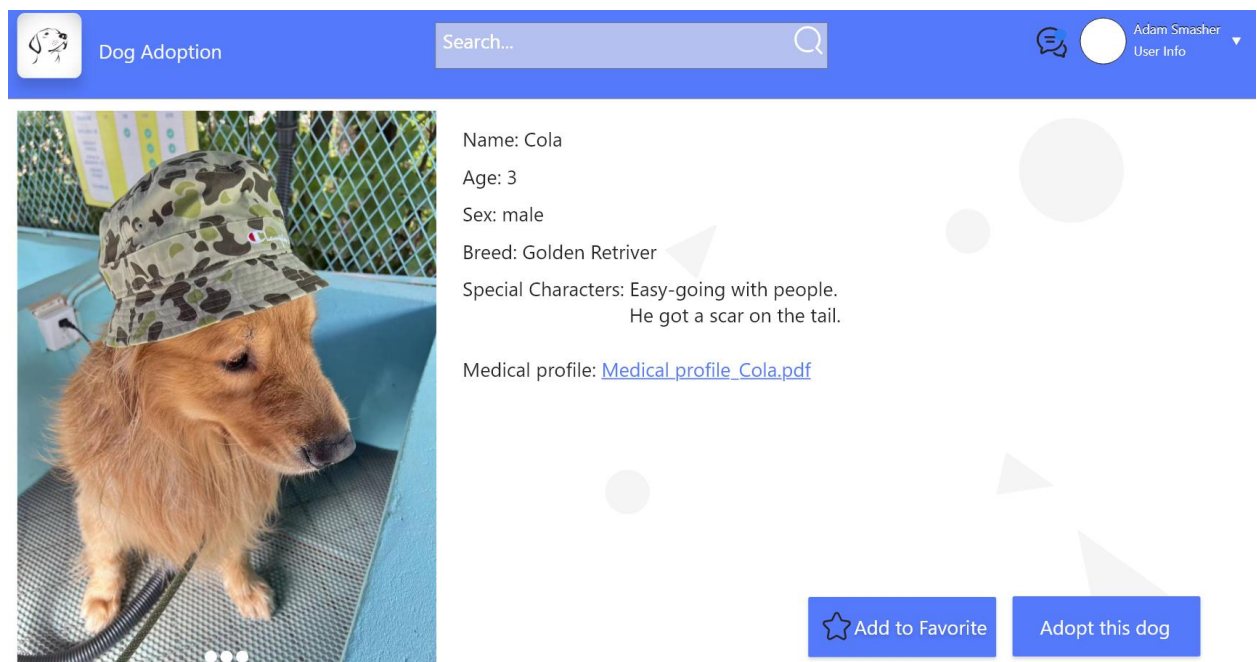
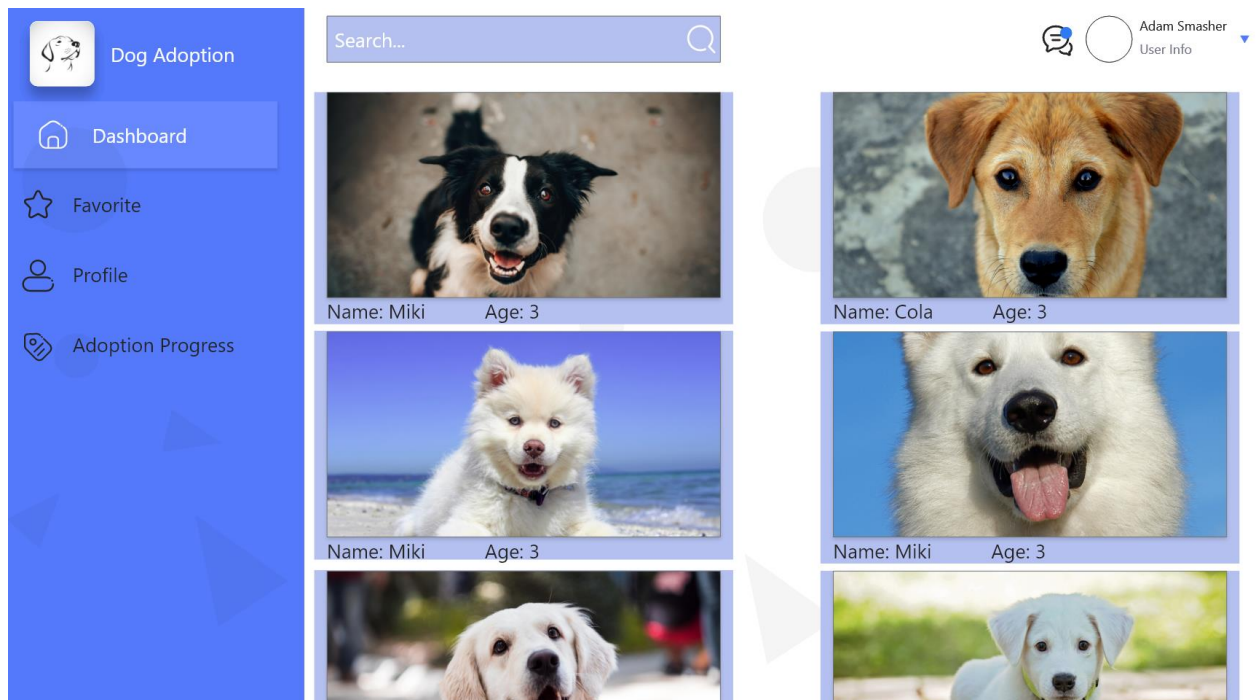
Essay of Adoption Situations
Select from this device  **Upload**

☐ I accept all the Terms of user and Privacy Policy

Sign Up



- Adoption process





Adopt Apply

Perspective Pet Parent:

First Name

Last Name

Email Address:

Phone Number:

Address:

Street Address

City

State/ Province

Postal/ Zip Code

Do you own any Pets?

**Please provide your
veterinarian's name
and phone number:**

**The reason that you
want to adopt this
dog:**

By clicking the submit button, I agree to Gone to the Dogs Rescue Inc. adoption process, will undergo a homecheck, and interview at the discretion of Gone to the Dogs Rescue Inc.

By clicking the submit button, I understand Gone to the Dogs Rescue Inc. will check my references including veterinary and personal.

By clicking the submit button, I understand there is an adoption donation associated with adoption of a pet from Gone to the Dogs Rescue Inc. and that it is tax deductible according to IRS 501(c)3 guidelines. I understand this donation will ensure the organization is equipped to rescue another homeless pet.

By clicking the submit button, I understand there is no "cooling off" period, and that if I no longer want or can no longer care for my adopted pet, I agree to notify Gone to the Dogs Rescue Inc. BY EMAIL and provide a 14 day period to allow Gone to the Dogs Rescue Inc. to make arrangements for my pet to be taken back into rescue.

By clicking the submit button, I agree to indemnify and hold harmless Gone to the Dogs Rescue Inc. against any losses, lawsuits, claims, injury, damages incurred by me or to any persons or property by my adopted pet, once adoption has been completed.

By clicking the submit button, I understand that Gone to the Dogs Rescue Inc. will disclose any of the pet's health or behavior issues known by the above named rescue group before adoption is completed.


By clicking the submit button, I understand that if I no longer want my pet, or am no longer able to care for my adopted pet, I will be directed to surrender my pet to Gone to the Dogs Rescue Inc. and provide transport to where Gone to the Dogs Rescue Inc. deems appropriate.



By clicking the submit button, I verify all of the above information is true and accurate.

Signature of Potential Pet Parent:




Submit


- Dog profile management process




Dog Adoption




Adam Smasher
User Info


Dog Information Management

Dog profile name	Details	Adopt Status	Date	Edit	Delete
Miki_age3_black_profile	Met him at street..	Waiting for approval	04/04/2022		
 Create new dog profile					


Dog Adoption



Adam Smasher
User Info





Name: Cola


Age: 3

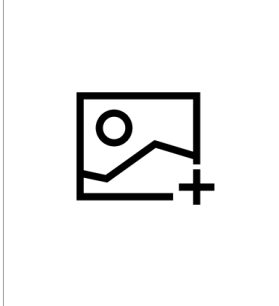
Sex: male

Breed: Golden Retriever

Special Characters: Easy-going with people.
He got a scar on the tail.

Medical profile: [Medical profile Cola.pdf](#)





Add new photo

Name:
Age:
Sex:
Breed:
Special Characters:

Medical profile:

Dog Information Management

Dog profile name	Details	Adopt Status	Date	Edit	Delete
Miki_age3_black_profile	Met him at street..	Waiting for approval	04/04/2022		
Cola_age3_black_profile	Met him at street..	Not adopt yet	05/04/2022		
 Create new dog profile					

Test case

Test Case ID: ADPLV1 Test Name: User login process Description: How to login in our system.					
Step	Test steps	Test Data	Expect result	Actual result	Status
1.	User must be registering the account first.	Username: nick12 Password: 1234	Display text "Register Success"	The user has successfully applied and the account is in the system.	Pass
2.	Navigate to the login bar and type the information that user registers before.				
3.	Press the login button, then it will bring the user to the first page.				

Test Case ID: ADPLV2 Test Name: Dogs Management Process Description: How to register dogs step-by-step.					
Step	Test steps	Test Data	Expect result	Actual result	Status
1.	Add dog information such as breed, color, gender.	Breed: Chi-Hua-Hua Color: Brown Gender: Male	Dogs approved by staff after add information and health checking.	All dogs were display on website.	Pass
2.	Dog health check.				
3.	Obtain medical attention or training to prepare for adoption.				
4.	List of dogs available for adoption on the website.				

Test Case ID: ADPLV3 Test Name: Dogs Adoption Process Description: Steps for adoption			*Requirement: User must be registering the account for adoption. *		
Step	Test steps	Test Data	Expect result	Actual result	Status
1.	Adopters must apply for an account by filling in real information such as ID card, address and must not have a criminal record or hurt animals.	Address 51/114 The Gallery Village Sampran Nakhon Pathom 73220 ID Card 1-1023-01345-134 NGO Blacklist: No	Real: Approved	The system will approve, and adopter can adopt the dogs.	PASS Or Fail
2.	The staff receives information from the adopters.				
3.	The staff checks the information from the database whether the information is true and no history of crime or hurting animals.				
4.	After approval Sponsors can choose the dogs, they want to adopt from the system.	Check information from external database.	Fake: Not Approved		
5.	The staff delivers the dog on the date and time that has been agreed with the adopter.				
6.	The staff wrote a log report about the dog being adopted. such as the amount received each day				

Functional requirement traceability matrix

Requirement	Design	Test
R1	P2 - Dog Profile Management	T2 - Dog Management Process
R2	P2 - Dog Profile Management	T2 - Dog Management Process
R3	P2 - Dog Profile Management	T2 - Dog Management Process
R4	P2 - Dog Profile Management	T2 - Dog Management Process
R5	P2 - Dog Profile Management	T2 - Dog Management Process
R6	P2 - Dog Profile Management	T2 - Dog Management Process
R7	P3 - Adoption Process	T3 - Dogs Adoption Process
R8	P3 - Adoption Process	T3 - Dogs Adoption Process
R9	P3 - Adoption Process	T3 - Dogs Adoption Process
R10	P3 - Adoption Process	T3 - Dogs Adoption Process
R11	P3 - Adoption Process	T3 - Dogs Adoption Process
R12	P3 - Adoption Process	T3 - Dogs Adoption Process
R13	P3 - Adoption Process	T3 - Dogs Adoption Process
R14	P5 - Verification Process	
R15	P5 - Verification Process	
R16	P3 - Adoption Process	
R17	P7 - System Report for admin and staff	
R18	P1 - Registration Process	
R19	P4 - Sponsor banner upload	
R20	P4 - Sponsor banner upload	
R21	P6 - Dog condition follow up	
R22	P3 - Adoption Process	T3 - Dogs Adoption Process