

الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
يُونِيسُوتِي إِسْلَامُ أَنْتَارَا بَغْسَا مِلْسِيَا

**KULLIYYAH OF INFORMATION AND COMMUNICATION
TECHNOLOGY**

INFO 3305

WEB APPLICATION DEVELOPMENT

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SECTION 3

FINAL PROJECT REPORT

AURORA CAT MANAGEMENT SYSTEM

Nur Syazwina Binti Ruhaizad

1717470

Supervised By:

Dr. Najhan Bin Muhamad Ibrahim

Table of Content

1. Project Description	3
2. Methodology	3
2.1 Analysis	3
2.2 Development	6
3. Conclusion	12
References	12
Appendix	13

1. Project Description

This project is basically about the system that manage the rescue shelter to help the stray cats in IIUM. One of the main purpose is I want to build a system that can manage the rescue shelter for IIUM stray cats with the objectives to rescue, treat (if needed), neutered and find adopters for the cats. This system is supervised by the administrators which all the details of the cat will be registered and keep ongoing updated. Within this user-friendly system, the rescue shelter can be managed very well and systematically.

2. Methodology

2.1 Analysis

This project is called as Aurora Cat Management System. The problem that we have faced before is we have to manage cat data manually. This will cause the data to be lost easily and take a long time to manage cat data manually. So, this project is a management information system to manage cat data. Within this system, it provide capabilities for registering cat's information details, recording cat's health, updating cat's health and registering adopter. Administrator do not needs to manage cat data by writing on paper which will consume more time.

USE CASE DIAGRAM

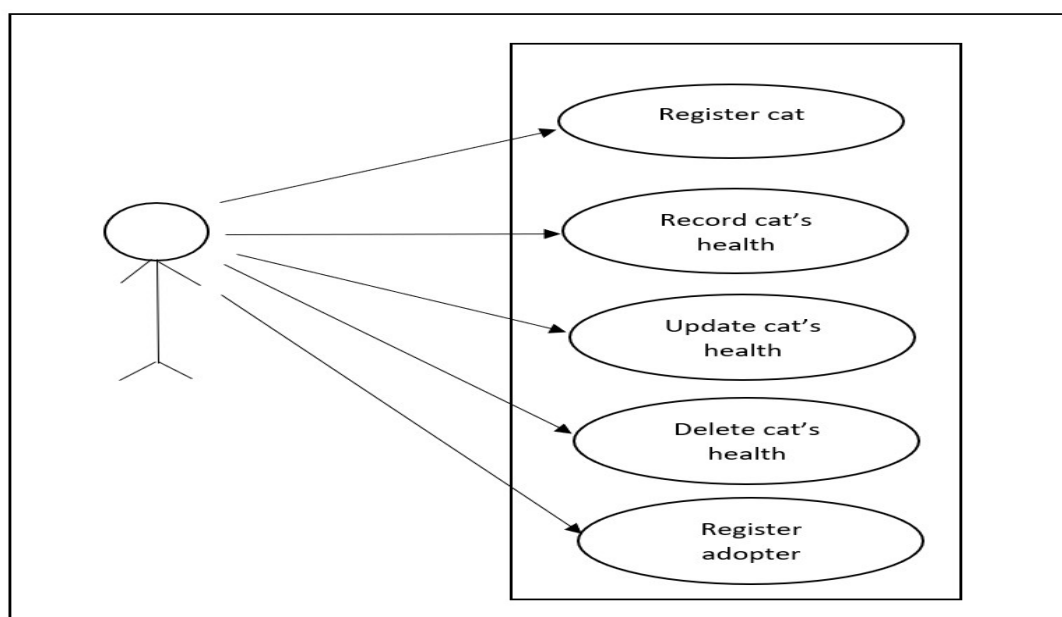


Figure 2.1.1 Use Case Diagram for Cat Management System

FUNCTIONAL REQUIREMENTS

Name	Descriptions	Functions
Register cat	This page enables the administrator to register cat's information details.	Allow administrator to register cat's information details.
Record health	This page displays the cat's health record.	Allow administrator to record cat's health.
Update health	This page enables the administrator to update cat's health.	Allow administrator to update cat's health.
Delete health	This page enables the administrator to delete cat's health.	Allow administrator to delete cat's health.
Register adopter	This page is for the adopter's information details registration.	Allow administrator to register adopter's information details.

FLOWCHART DIAGRAM

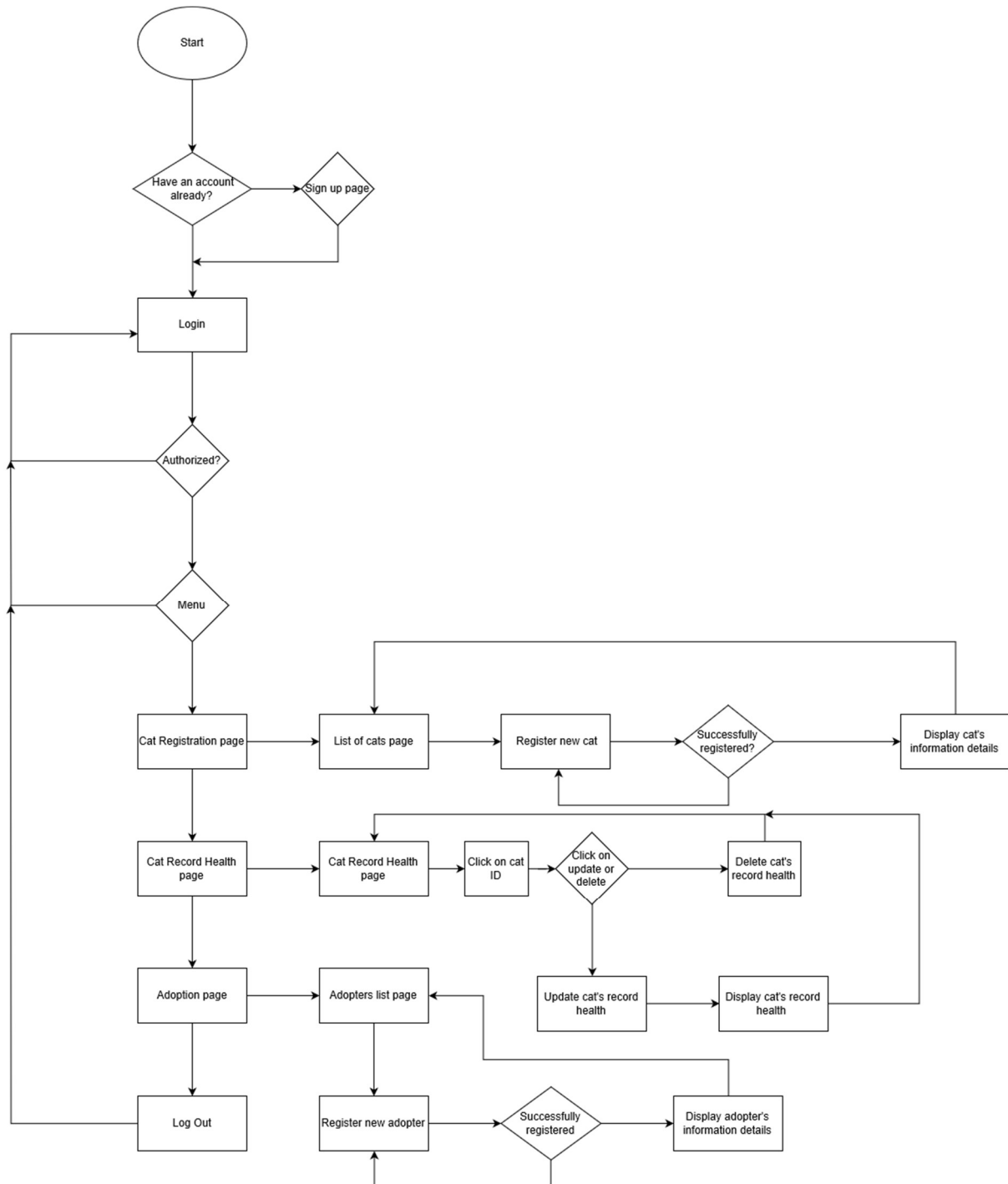
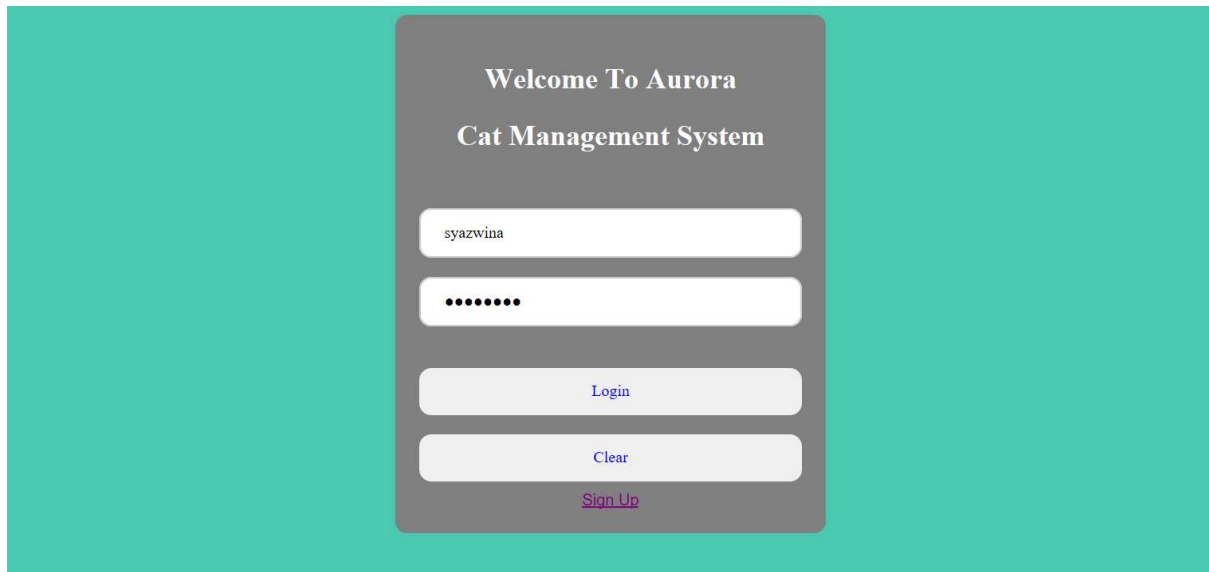


Figure 2.1.2 Flow Chart Diagram for Cat Management System

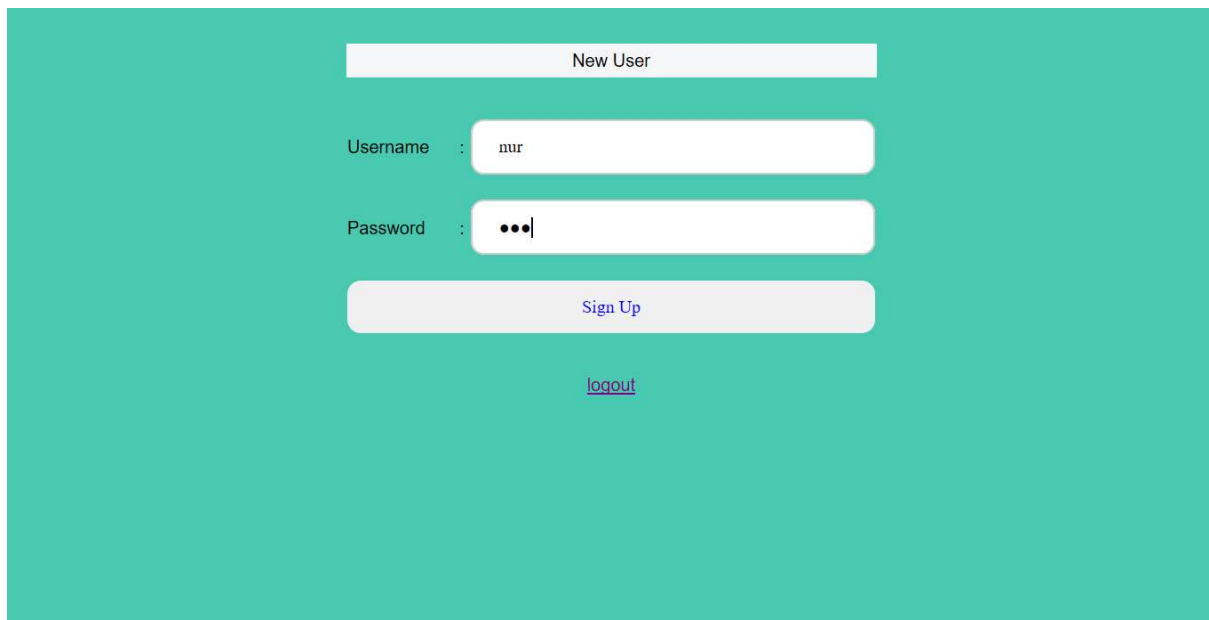
3.2 Development



The screenshot shows a login interface for the 'Aurora Cat Management System'. It features a teal background with a central grey panel. The panel contains the title 'Welcome To Aurora Cat Management System', a username input field with 'syazwina' entered, a password input field with masked characters, a 'Login' button, a 'Clear' button, and a 'Sign Up' link.

Figure 3.2.1 Log In page

In this page, only administer that already sign up can log in to this system. If the username and password entered is wrong, the administer cannot log in and the invalid login error will be shown.



The screenshot shows a sign-up interface for the 'Aurora Cat Management System'. It features a teal background with a central grey panel. The panel contains the title 'New User', a 'Username' label followed by an input field with 'nur' entered, a 'Password' label followed by an input field with masked characters, a 'Sign Up' button, and a 'logout' link.

Figure 3.2.2 Sign Up page

In this page, it will enable a new user to sign up.

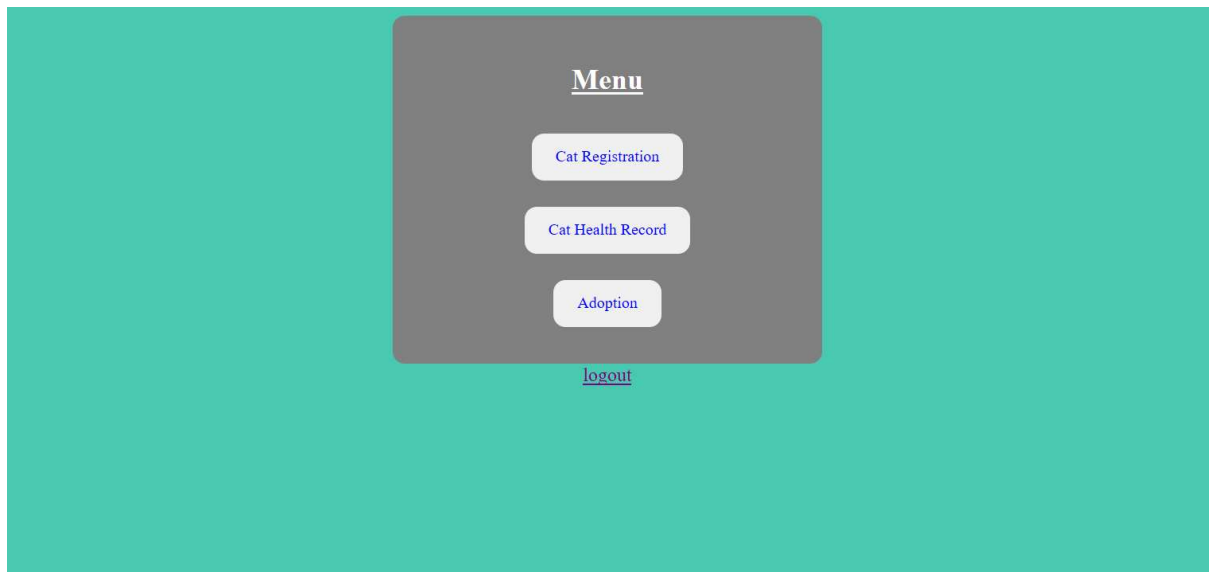


Figure 3.2.3 Main page of the system

In the main page, there are three buttons which have their own functionality:

Cat Registration → Button that will navigate admin to the cat registration page

Cat Health Record → Button that will enable the admin to update and delete the health record of the chosen cat

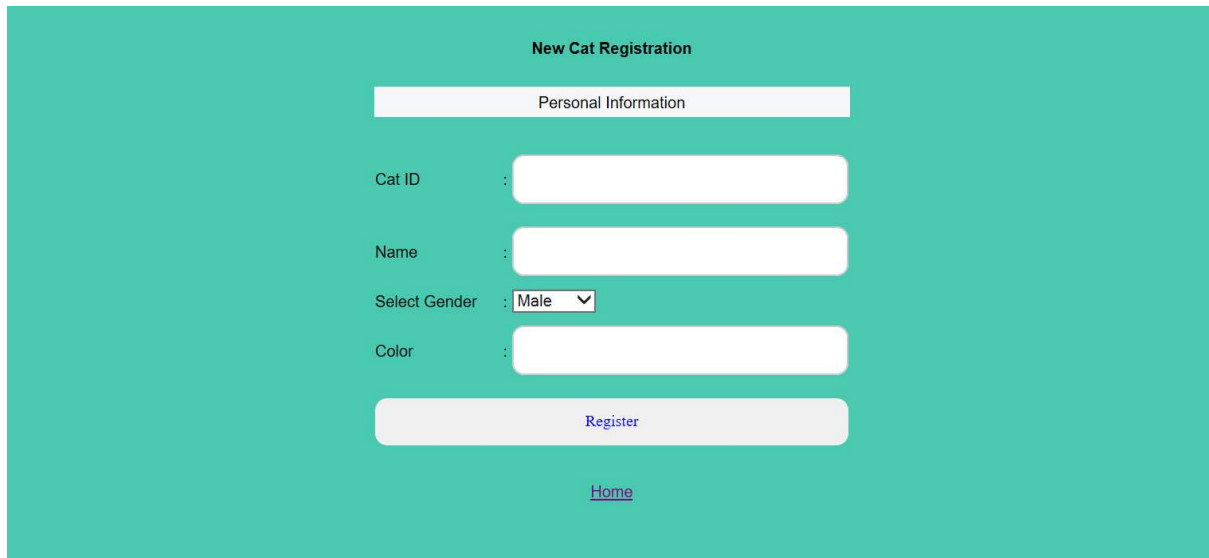
Adoption → Button that will direct administrator to the adopter registration if there is any adopter that want to adopt the cat

List Of Cats				
No	catID	Name	Gender	Color
1	C201	Marie	Female	Grey
2	C202	Smokey	Female	White
3	C203	Mickey	Female	Calico
4	C204	Bob	Male	Orange
5	C205	Kiki	Female	Orange
6	C206	Tom	Male	Light Grey
7	C207	Comel	Female	Brown
8	C208	Dotty	Female	Orange
9	C209	Tupsi	Female	Calico
10	C210	Wakanda	Male	Black

[Register Here](#) [Main](#) [logout](#)

Figure 3.2.4 List of Cats page

In this page, the list of cats with information details such as cat ID, cat name, gender and color is shown.



New Cat Registration

Personal Information

Cat ID :

Name :

Select Gender : Male ▾

Color :

[Register](#)

[Home](#)

Figure 3.2.5 Cat Registration page

In this cat registration page, administrator needs to fill up all the required information regarding the new cat such as the name of the cat, the cat ID, select the gender of the cat and the color of the cat. If administrator fill in the existing cat ID, the new registration will not successfully been registered.

Cat Health Record

No cat	ID	Weight (kg)	Dewormed	Vaccinated	Breed	Pregnancy	Neutered/Sprayed	Health Condition
1	C201	3.4	15/12/2019	15/12/2019	BSH	No	Yes	Healthy
2	C202	3.6	03/12/2019	03/12/2019	Siamese	Yes	No	Not Healthy
3	C203	4.5	12/11/2019	12/11/2019	Persian	No	Yes	Healthy
4	C204	4.5	09/10/2019	09/10/2019	Domestic Short Hair	No	Yes	Healthy
5	C205	5.1	01/05/2019	01/05/2019	Domestic Short Hair	No	Yes	Not Healthy
6	C206	4.2	19/02/2019	19/02/2019	Persian	No	Yes	Healthy
7	C207	3.2	30/01/2019	30/01/2019	Domestic Medium Hair	No	No	Not Healthy
8	C208	4.8	07/06/2019	07/06/2019	Tabby	No	No	Healthy
9	C209	4.7	17/08/2019	17/08/2019	Persian	No	Yes	Healthy
10	C210	4.5	19/10/2019	19/10/2019	Domestic Long Hair	No	Yes	Healthy

[Main](#) [Logout](#)

Figure 3.2.6 Cat Health Record page

In this page, the cat's health record with information details such as cat ID, weight, last date of dewormed, last date of vaccinated, breed, pregnancy, neutered and health condition is shown.

Health Record

Cat ID

:

C201

Weight(kg)

:

3.4

Dewormed

:

15/12/2019

Vaccinated

:

15/12/2019

Breed

:

BSH

Pregnancy

:

No

Neutered

:

Yes

Health Condition

:

Healthy

[Home](#)

[Update](#)

[Delete](#)

Figure 3.2.7 Health Record page

In this page, the administrator will be able to update and delete the cat's health record.

Health Record

CatID

:

C201

Weight

:

3.4

Dewormed

:

15/12/2019

Vaccinated

:

15/12/2019

Breed

:

BSH

Pregnancy

:

No

Neutered

:

Yes

Health Condition :

Healthy

Update

[Home](#)

Figure 3.2.8 Health Record Updating page

In this page, the administrator will be able to update for cat's health by clicking update button. The administrator needs to fill up all the information needed and click update button to save the information.

Adopter List							
No	Name	IC Number	Gender	Address	Phone Number	Date Adopt	Cat ID
1	Hafiz Syazwan	950405065334	Male	Taman Melawati,53100 Kuala Lumpur	0124789934	11/12/2019	C202
2	Raisya Rozhan	851508116455	Female	Cheras,56000 Kuala Lumpur	0138794456	15/12/2019	C205
3	Zahra Salleh	751804018745	Female	Petaling Jaya,46100 Selangor	0199665531	22/12/2019	C207

[Register Here](#) [Main](#) [Logout](#)

Figure 3.2.9 Adopter List page

In this page, the list of adopters with information details such as name, IC number, gender, address, phone number, date of adopt and cat ID is shown. Cat ID represents which cat the adopter chose to adopt.

Adopter Registration

Personal Information

Name :

IC Number :

Gender :

Male ▾

Address :

Phone Number :

Date Adopt :

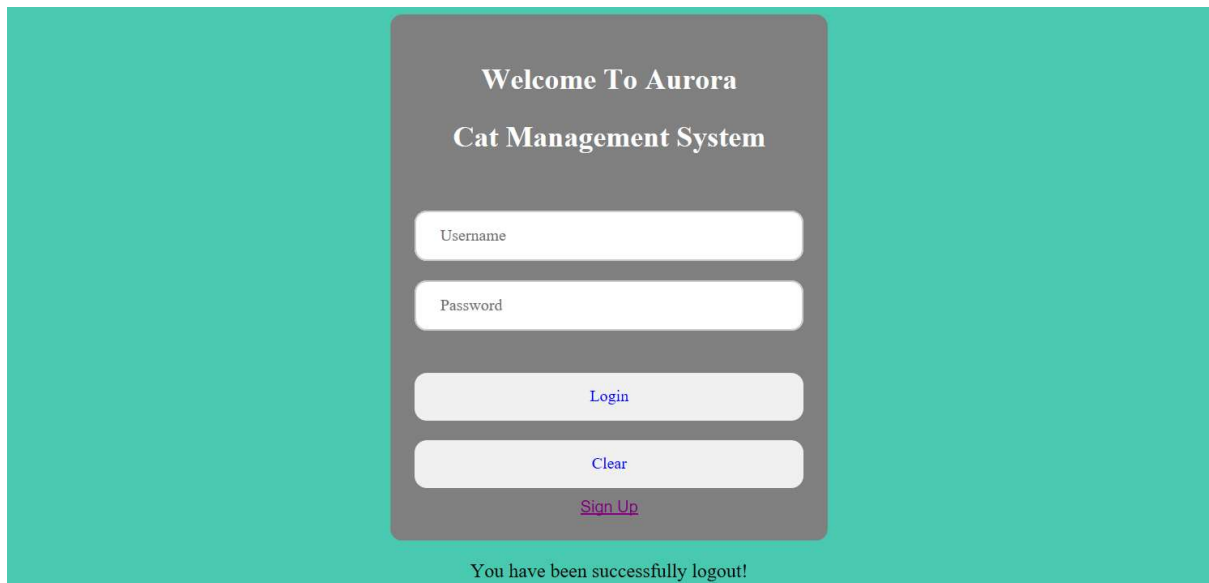
Cat ID :

Submit

[Home](#)

Figure 3.2.10 Adopter Registration page

If a person wants to adopt a cat, the administrator needs to register the person first. In order to do this task, the admin must go to this Adoption page in which the registration of the adopter take place. The information of the registered adopter will be saved by clicking the Submit button.



Welcome To Aurora
Cat Management System

Username

Password

Login

Clear

[Sign Up](#)

You have been successfully logout!

Figure 3.2.11 Log Out page

Log out button is a button that will direct the administrator to the log in page.

3. Conclusion

As a conclusion, executing Aurora Cat Management System, the management cat data procedure has been simplified. Previously, administrator have to manage cat data manually whereas the currently developed system offers an efficient way to perform these operations. The administrator can access cat management information system website online through phone and laptop and register the information needed and manage cat data.

The primary objective of my research and development, I am aiming this year is to build a rescue shelter for IIUM stray cats with the objectives to rescue, treat (if needed), neutered and find adopters for the cats.

This system will ease the administrator to register cat's information details, record cat's health, update cat's health and register adopter's information details. Administrator can also find it easy to do all this task anytime and anywhere. Besides, we also can reduce unnecessary paperwork in maintaining cat's information. It also provides easy, accurate, unambiguous and faster data access.

References

- 1) Liang, Y. D. (2015). Introduction to Java programming. Boston: Pearson.
- 2) MVC in JSP. Retrieved 12 December 2019 from
<https://www.javatpoint.com/MVC-in-jsp>
- 3) Pet Finder. Retrieved 12 December 2019 from
<https://www.petfinder.my/listings.php?page=6&sorttype=2&sortage=&sortadopt=0&sortfield=&sortbreed1=&sortbreed2=&sortstate=41326&sortquery=>

Appendix

catID	name	gender	color
C201	Marie	Female	Grey
C202	Smokey	Female	White
C203	Mickey	Female	Calico
C204	Bob	Male	Orange
C205	Kiki	Female	Orange
C206	Tom	Male	Light Grey
C207	Comel	Female	Brown
C208	Dotty	Female	Orange
C209	Tupsi	Female	Calico
C210	Wakanda	Male	Black

List of Cats

recordID	catID	weight	deworm	vaccine	breed	preg	neu	healths
171	C201	3.4	15/12/2019	15/12/2019	BSH	No	Yes	Healthy
172	C202	3.6	03/12/2019	03/12/2019	Siamese	Yes	No	Not Healthy
173	C203	4.5	12/11/2019	12/11/2019	Persian	No	Yes	Healthy
174	C204	4.5	09/10/2019	09/10/2019	Domestic Short Hair	No	Yes	Healthy
175	C205	5.1	01/05/2019	01/05/2019	Domestic Short Hair	No	Yes	Not Healthy
176	C206	4.2	19/02/2019	19/02/2019	Persian	No	Yes	Healthy
177	C207	3.2	30/01/2019	30/01/2019	Domestic Medium Hair	No	No	Not Healthy
178	C208	4.8	07/06/2019	07/06/2019	Tabby	No	No	Healthy
179	C209	4.7	17/08/2019	17/08/2019	Persian	No	Yes	Healthy
180	C210	4.5	19/10/2019	19/10/2019	Domestic Long Hair	No	Yes	Healthy

Cat's Health Record

adopt	IC	gender	address	phone	date	catID
Hafiz Syazwan	950405065334	Male	Taman Melawati, 53100 Kuala Lumpur	0124789934	11/12/2019	C202
Raisya Rozhan	851508116455	Female	Cheras, 56000 Kuala Lumpur	0138794456	15/12/2019	C205
Zahra Salleh	751804018745	Female	Petaling Jaya, 46100 Selangor	0199665531	22/12/2019	C207

Adopters List

GitHub link:

<https://github.com/syazwinarhzd97/Web-Application-Development->