

SINGAPORE POLYTECHNIC
SCHOOL OF ELECTRICAL AND ELECTRONIC ENGINEERING



PETCARE

PROJECT GROUP: <EEE-16A105>

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ABSTRACT

PROJECT OBJECTIVE

The purpose of this project is to create a platform to bridge pet owners / pet owners to-be with various adoption services and also to educate and provide more detailed information on their pets' healthcare and wellness.

BRIEF DESCRIPTION OF OUR PROJECT

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CONCLUSION

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INTRODUCTION

Our group has decided to create this Mobile Application (Android), named “PetCare” for our Final Year Project.

We have conducted a public survey, mostly targeting pet owners and pet lovers, ages ranging from as 16 to 60, in Singapore during our first assessment and the positive results received affirmed our decision to design and implement an application like this for our final year project.

8 in 10 people that we have surveyed were not aware of the other pet adoption services in Singapore (eg. AdoptADog, Purely Adoptions, Causes for Animals) other than the Society for the Prevention of Cruelty to Animals (SPCA).

7 in 10 people that we have surveyed thinks that it is good to have information regarding their pets’ healthcare stored on their phone for easy reference or for self-diagnosis.

9 in 10 people that we have surveyed owns a smartphone with internet connection and uses them regularly.

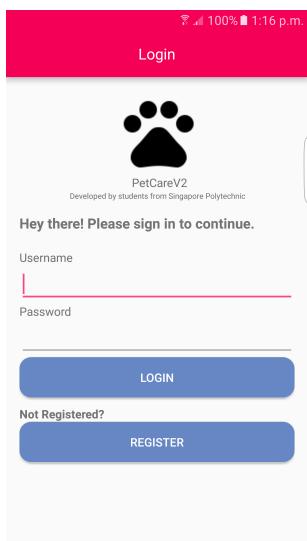
Therefore, we have decided to create an application that can bridge this gap between the public and the various adoption services in Singapore and also to provide a variety of pet related information and services to our users.

Some of our many application features includes a page filled with pets awaiting adoption from the various adoption services, location of pet hospitals and clinics in Singapore, allowing the users to upload their own personal adoption listing and donations or sponsorships that can be made to the many adoption services in Singapore.

MAIN CONTENT

**Note: The 'V2' in the action bar represents the second version of our application.

Part 1: Login / Registration



On first use, users will be greeted by the login page on the left, if the user is new and does not have an account, he/she can simply register for one and then login afterwards.

*The user is only required to login once.

The image shows the PetCareV2 registration screen. At the top, it says "Registration" and shows battery level at 100% and time at 1:16 p.m. Below that is a text field labeled "Enter your name". The next field is labeled "Choose your username". The third field is labeled "Choose your password". The fourth field is labeled "Enter your email". At the bottom is a large blue button labeled "REGISTER".

Part 2: Home Page



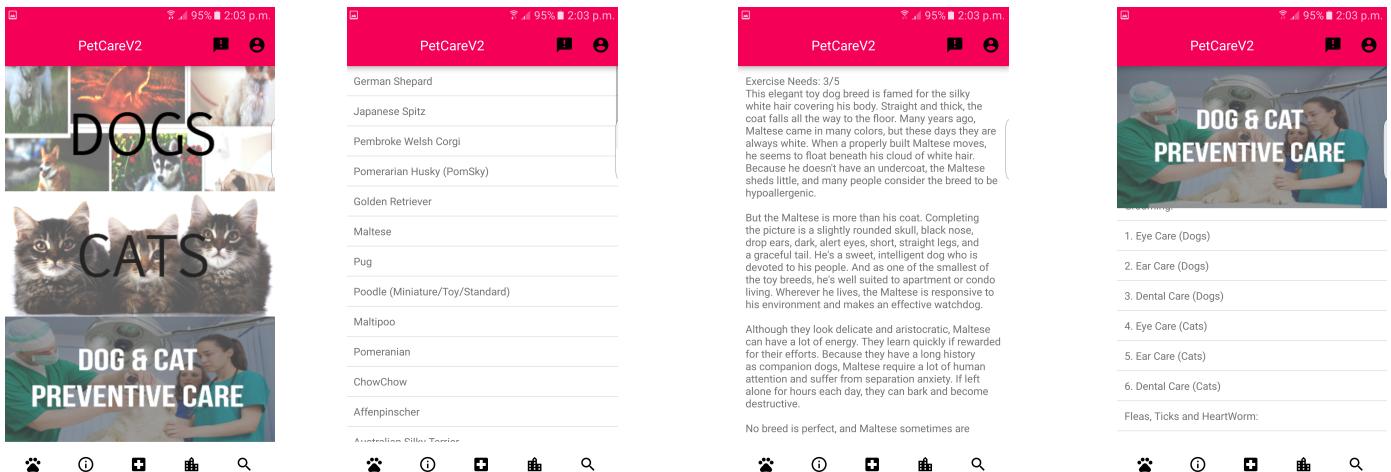
After logging into the application once, the user will now be greeted by this page every time the application is launched.

In this page, there are a list of pets that are being put up for adoption by the various adoption services, if the user uploads a listing of their own, it will also be placed in this page after the administrator has gone through and verify the contents of the post.

If the user is interested in a particular animal, he/she can press the button on the listing to find out more information about that animal.

*Users can navigate to this page by pressing the first icon on the bottom (from the left).

Part 3: Information Page



In this page, the information is split into 3 categories, 'Dogs', 'Cats' and 'Prevention Care'.

Each category has a list of breeds / information of their own (2nd image) and its' purpose is to educate and inform the user about their pets' breed information (3rd image), the health problems that might be diagnosed in their pet and some steps that can be taken to prevent such things from happening (4th image).

*Users can navigate to this page by pressing the second icon on the bottom (from the left).

**Users will also need an internet connection in order to access the information (data is stored in a web server)

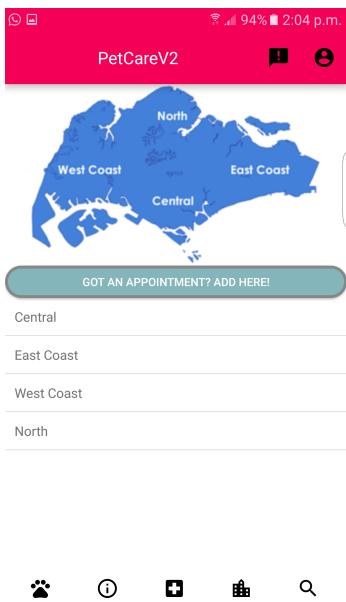
Part 4: Upload Page

This screenshot shows the "Adoption Listing" page. It includes fields for Name (test1), Contact Method (Phone / Email) (test1@asd.com), and Description (test1). There is a camera icon and a file icon for media uploads. At the bottom is a large orange button labeled "UPLOAD LISTING".

In this page, the user can upload a listing to put up their pet for adoption and the data will be sent to our MySQL Database (Hosted on AmazonAWS). After thorough vetting by the an administrator, the adoption listing will be placed on the home page of this application, together with the many other adoption listings.

*Users can navigate to this page by pressing the third icon on the bottom (from the left).

Part 5: Location Page

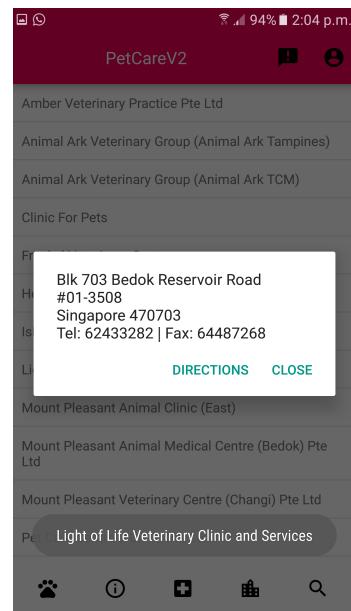


In this page, the location of the various pet hospitals and clinics in Singapore are divided into 4 areas (North, East Coast, Central and West Coast).

After the user chose the location group that he/she wants, the user will be directed to a list of pet clinics in that area.

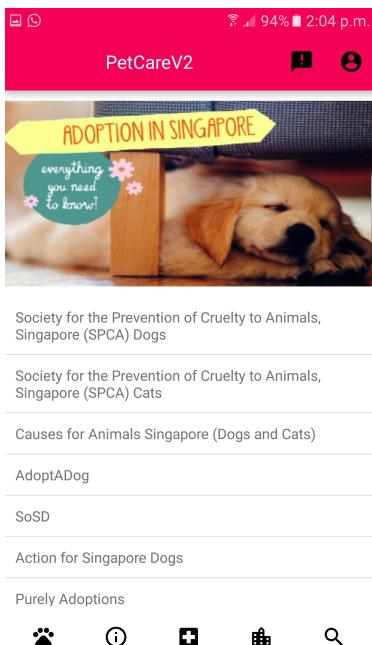
If a clinic is chosen, an alert dialog will appear (image on the right) with information regarding the chosen clinic.

If the 'Directions' option is chosen, the user will be redirected to Google Maps with the GPS directions to the clinic.



*Users can navigate to this page by pressing the fourth icon on the bottom (from the left).

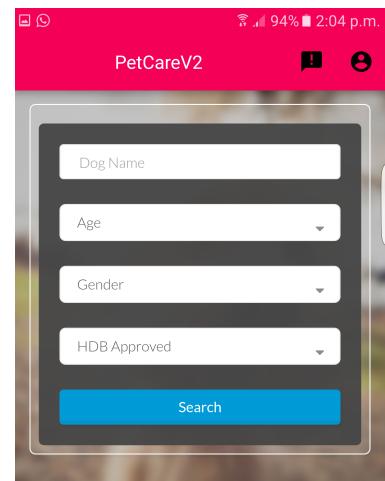
Part 6: Web Page



In this page, there is a list of adoption services available in Singapore (image on the left).

Upon clicking a service provider, the user will be directed to the website to browse and view more information about the adoption service (image on the right).

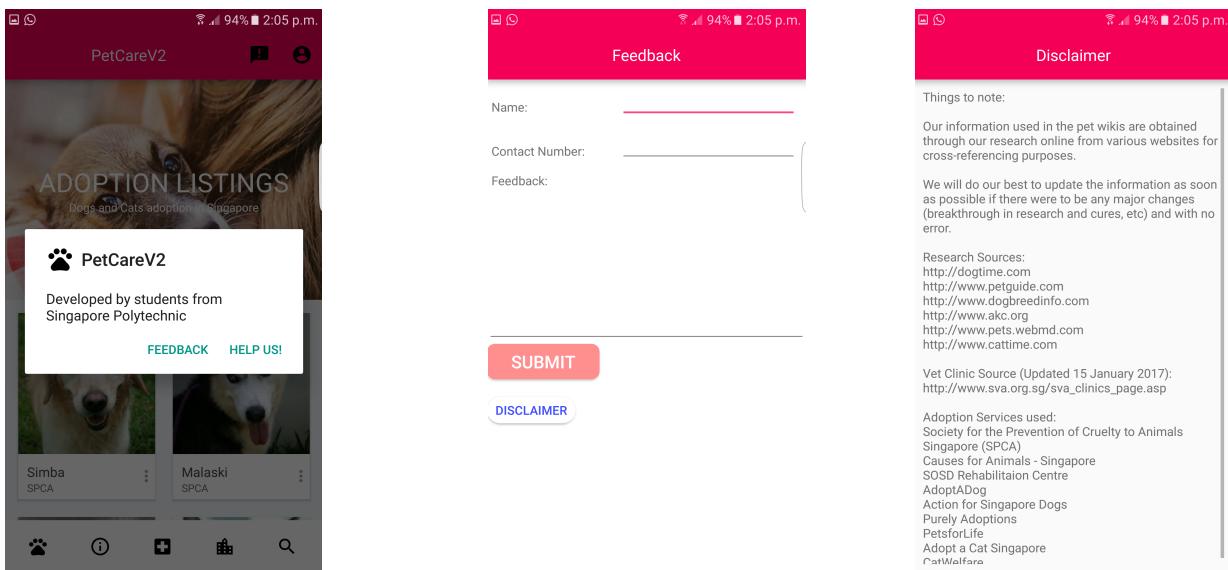
*Users can navigate to this page by pressing the fifth icon on the bottom (from the left).



Dogs for Adoption | 459 dogs from 14 welfare groups for adoption
« Previous Page | Current Page: 1 / 15



Part 7: Feedback and Disclaimer Page

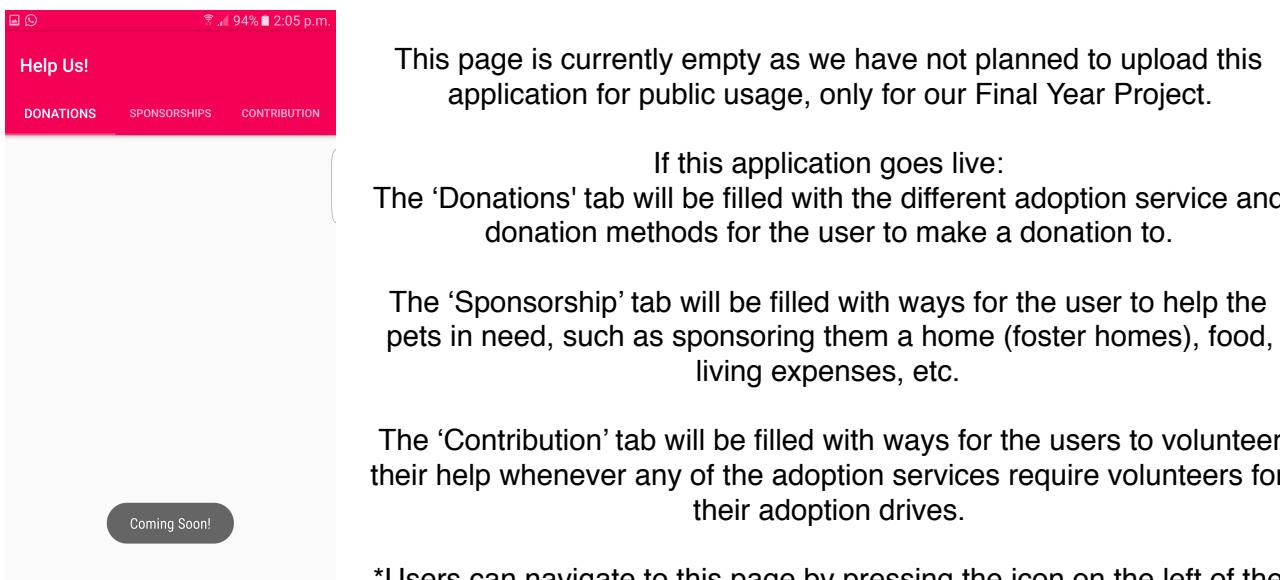


In the feedback page, users can input some useful feedbacks and send it to us for us to review and improve our application. It can also be used as a method to contact us if the user faces any problem.

In the disclaimer page, we have listed our sources of information and our adoption service partners.

*Users can navigate to this 2 pages by pressing the icon on the left of the action bar and selecting the 'Feedback' option when prompted.

Part 8: Donation Page



*Users can navigate to this page by pressing the icon on the left of the action bar and selecting the 'Help Us!' option when prompted.

LIST OF SKILLS NEEDED AND REFERENCES

SKILLS NEEDED:

- Java programming knowledge
- Android programming knowledge
- PHP script writing knowledge
- MySQL Database knowledge
- Linux OS knowledge
- Cloud Computing knowledge

REFERENCES:

- Application icons from Google — <https://materialdesignicons.com/>
- Application button maker — <http://angrytools.com/android/button/>