STRAY FINDER

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FLOW OF EVENTS 01 INTRO & OVERVIEW OF

Breakdown of how the Stray Finder app works

FUNCTIONALITIES

04

GOOD TRACEABILITY

Demonstration of good traceability with specific use cases

02

DEMO

Demo of the main functionalities of the app

05

TESTING

Testing test cases

03GOOD SE PRACTICES

Discussion of good SE practices observed during the project

06

Q&A

We'll be glad to answer your questions!





O1
INTRO &
OVERVIEW OF
FUNCTIONALITIES



Introduction



Problem

- Passersby don't necessarily know how to help injured stray cats
- Volunteers from animal shelters unable to easily track stray cats



Our Solution

Develop a stray cat network system enabling volunteers & passersby to report injured cats





Target Audience & Intended Usage

Target Audience:

- Volunteers from animal shelters/pet care organizations
- General public (passersby)

Intended Usage:

- Report stray cats (injured/uninjured)
- Pinpoint location of reported injured cats
- Locate vets within proximity to user



Primary Features



Report a Cat



Cat Noticeboard



Cat Map



Find a Vet



Adopt a Cat



MAIN FUNCTIONALITIES BY TYPE OF USER

Passerby



- Report Stray Cat (Breed Predictor API) & Report Injury
- Vet Map (GovData API, Google Maps API)
- Adopt a cat page

Volunteer



- Injury Noticeboard & Handle Injury
- Vet Map (GovData API, Google Maps API)
- Cat Map (Google Maps API)
- Login & Register
- Edit Profile



DEMO







03
GOOD SE
PRACTICES



SINGLE RESPONSIBILITY PRINCIPLE

- Every class has one job
 - e.g. StrayCatMngr handles get and set methods pertaining to stray cat only, while UserVolunteer handles get and set methods for user volunteer only
- Every UI has one job
 - e.g. LoginUI and RegistrationUI are separate and handle login and registration only respectively



ENCAPSULATION: ENTITY-CONTROL-BOUNDARY



ENTITY

Represents long-lived information relevant to stakeholders

AdoptOrg



CONTROL

Processing and logic to coordinate and control objects involved in use case

- LoginMngr
- RegistrationMngr
- StrayCatMngr
- Injured
- AdoptMngr
- UserVolunteer etc.



BOUNDARY

Interaction with external actors (users and external systems)

- UI to interact with user and take in input when prompted
- GovDataAPI
- Breed Detector API



HOW OUR DESIGN SUPPORTS FURTHER UPGRADES

ReportUI

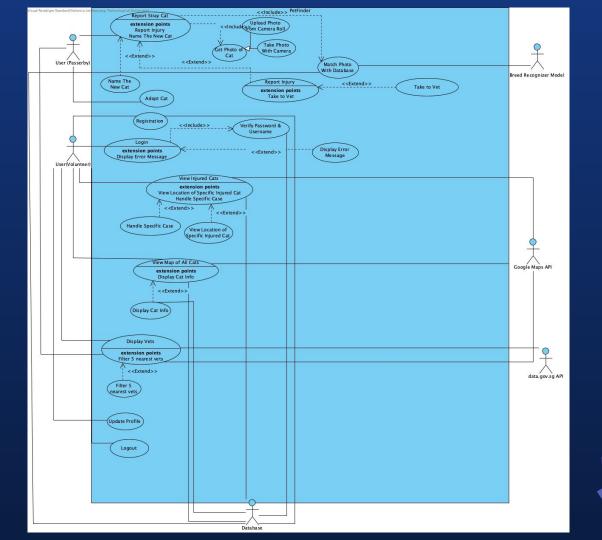
 If we want to add more functionalities to our report function eg report of death of an existing stray cat, we can easily add the removeCat method to the ReportUI and do not need to make any other changes in order to accommodate the change



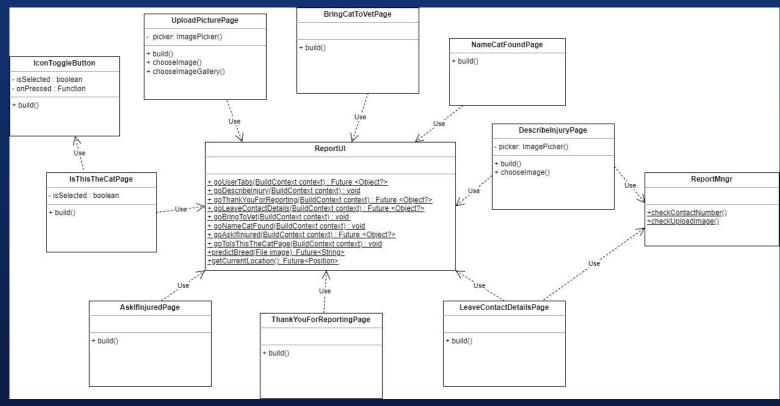
Q00D TRACEABILITY



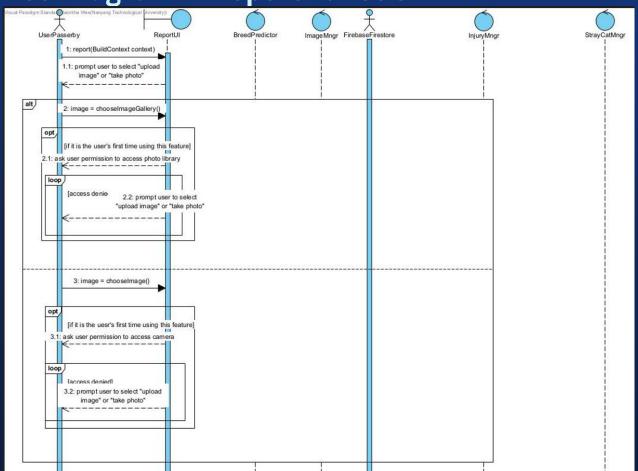
USE CASE DIAGRAM



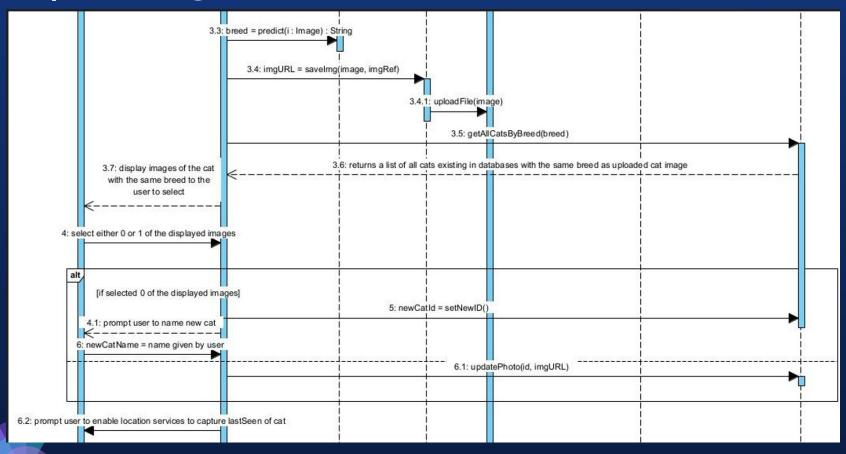
Class Diagram – Report Function



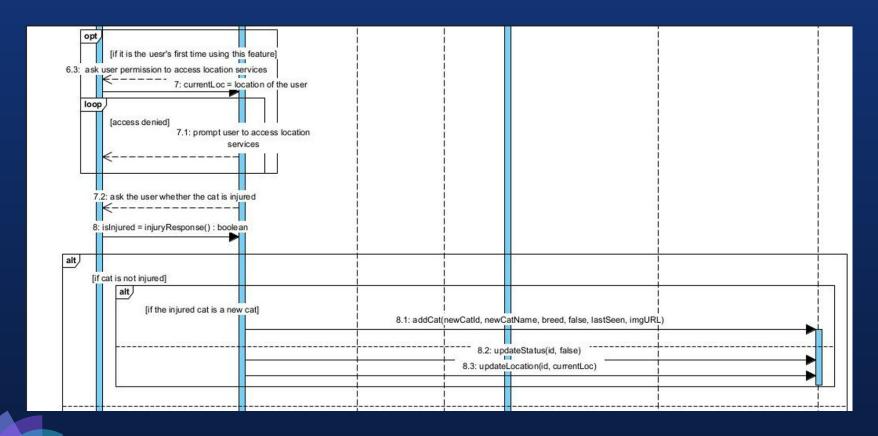
Sequence Diagram – Report Function



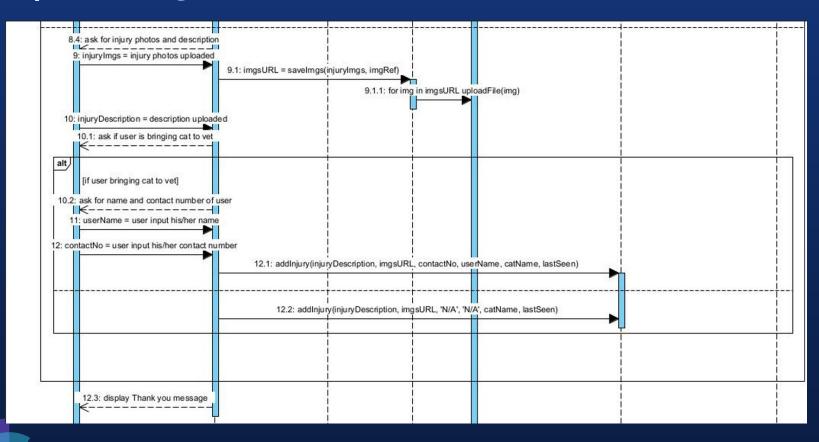
Sequence Diagram cont.



Sequence Diagram cont.



Sequence Diagram cont.



05 TESTING

Black Box Testing

- Test Cases based on input within the Registration & Edit Profile pages of application

Equivalent Class & Boundary Value Testing (valid vs invalid inputs)

 Control Classes tested: LoginMngr, RegistrationMngr

	Test Ca	or the first time.		
	Test ID	Input Description	Expected Output	Actual Result
	1	spca (spca is already registered in our database)	showing that there is a duplicate organisation name after register button is pressed	Dialog Box showing that there is a duplicate organisation name after register button is pressed
Organisation Name	2	cat welfare society (it has not been registered in our database yet)	Loading GIF is displayed, screen reloads and navigates to login page after register button is pressed	Screen reloads and navigates to login page after register button is pressed

	3	spca@email.com (spca's email is already registered in our database)	Dialog Box showing that there is an existing email address in our database	Dialog Box showing that there is an existing email address in our database
	4	spca	Dialog Box showing that the email address is invalid due to incorrect format after register button is pressed	Dialog Box showing that the email address is invalid due to incorrect format after register button is pressed
Email address	5	catwelfaresociety@e mail.com	Loading GIF is displayed, screen reloads and navigates to login page after register button is pressed	Loading GIF is displayed, screen reloads and navigates to login page after register button is pressed



				p
	6		Dialog Box showing that the minimum	Dialog Box showing
			character of	that the minimum
			password is 6	character of password
			after register	is 6 after register
		123	button is pressed	button is pressed
	7			
			Loading GIF is	Loading GIF is
			displayed, screen	displayed, screen
			reloads and	reloads and navigates
			navigates to login	to login page after
Password		122456	page after register	
rassword		123456	button is pressed	pressed



8		Register button is disabled if phone	disabled if phone
	122456	number length is	number length is not
è	123456	not equal to 8	equal to 8
9		Register button is disabled if phone number length is	Register button is disabled if phone number length is not
	1234567891	not equal to 8	equal to 8
10	1234567#	Dialog Box showing that the phone number must be all digits	Dialog Box showing that the phone number must be all digits

Phone number	11	12345678	Loading GIF is displayed, screen reloads and navigates to login page after register button is pressed	
Address	12	Singapore 123456	Loading GIF is displayed, screen reloads and navigates to login page after register button is pressed	
Any text field	13	If any text field is not filled	Register button is disabled	Register button is disabled



Test Case 2: User(volunteer) edits their own profile

	l.						
	Test ID	Input Description	Expected Output	Actual Result			
	1	spca (spca is already registered in our database) 2. User (volunteer) presses 'back' arrow from map page.	Dialog Box showing that there is a duplicate organisation name after register button is pressed 2. Redirection to "noticeboard" page	Dialog Box showing that there is a duplicate organisation name after register button is pressed			
Organization Name	2	cat welfare society (it has not been registered in our database yet)	Dialog box showing information is successfully updated and screen changes to display state after confirm button is pressed	Dialog box showing information is successfully updated and screen changes to display state after confirm button is pressed			
Name	3		Dialog box showing that contact number can only be of 8 digits after confirm button is pressed	Dialog box showing that contact number can only be of 8 digits after confirm button is pressed			

Edit Profile



Edit Profile

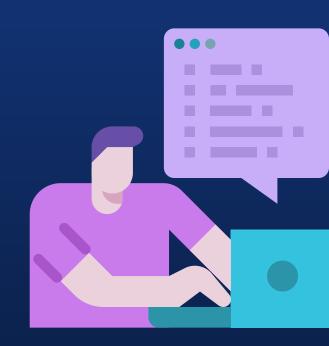
	4	123456789	Dialog box showing that contact number can only be of 8 digits after confirm button is pressed	Dialog box showing that contact number can only be of 8 digits after confirm button is pressed
	5	1234567+	Dialog box showing that contact number can only be of digits after confirm button is pressed	Dialog box showing that contact number can only be of digits after confirm button is pressed
Contact Number	6	12345678	Dialog box showing information is successfully updated and screen changes to display state after confirm button is pressed	Dialog box showing information is successfully updated and screen changes to display state after confirm button is pressed

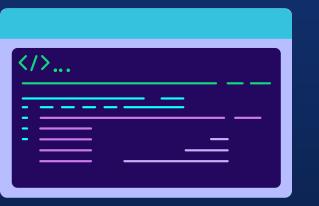
Edit Profile

Address	7	Singapore 123456	Dialog box showing information is successfully updated and screen changes to display state after confirm button is pressed	Dialog box showing information is successfully updated and screen changes to display state after confirm button is pressed
All text field	8	If any text field is not filled	Dialog box showing that all text fields should be filled in after confirm button is pressed	Dialog box showing that all text fields should be filled in after confirm button is pressed



06 Q&A





THANKS

Hope you like our Stray Finder app!



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