



Adoptee
SAVE A LIFE. ADOPT A PET

FINAL PRESENTATION

An Application for Pet Adoption & Animal Care

SCS2202 - Group Project 1 - CS Group 26

OUR GROUP - CS 26

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LINE UP

Introduction

Requirements

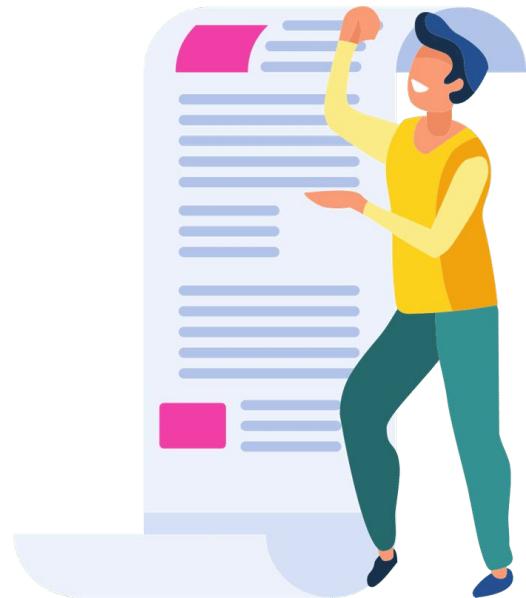
Quality Aspects

System Design

Testing

Technical Exposure

Demonstration





What is Adoptee ?

A web based platform,

For animal welfare organizations all around the island to,

- announce adoptions & find adopters
- receive donations
- receive long term sponsorships

For the public to,

- adopt an animal
- report, care for an injured animal
- make veterinary consultations get professional medical advice during emergency periods

Support non-profit organizations in adoption processes and to reduce the death rate of stray animals due to accidents and ignorance.

Requirements

Pet Adoption

- Listing animals up for adoption.
- Browsing for pets
- Adoption requests
- Acceptance or rejection of adoption requests



Animal Rescues

- Reporting injured/ abandoned animals
- Respond to rescue requests.
- Updates on the reported animal



Requirements contd.

Animal Welfare Organisations

- Updates about organizations' welfare work
- Complaints and feedback
- Donations
- Subscriptions for sponsorships
- Multiple users in an organization



Veterinary Consultation

- Consultation through messaging, photograph, video call
- Prescription handling
- Animals' health records
- Payment for consultation

Users & Workload Distribution



REGISTERED
USER



UNREGISTERED
USER



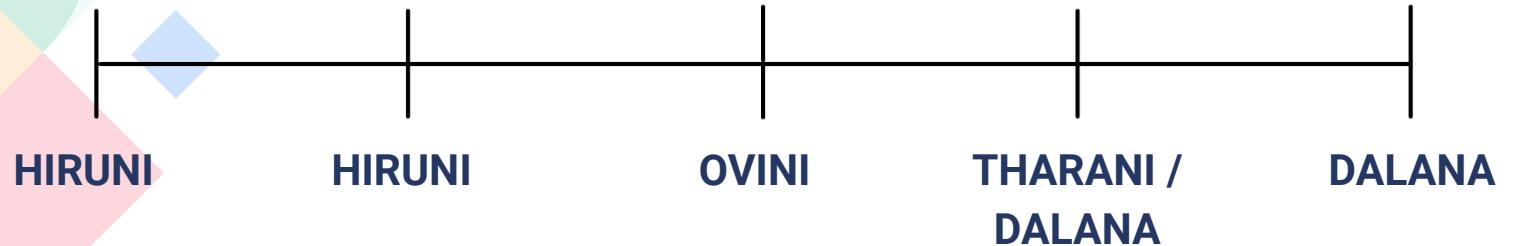
ORGANIZATION
USER



ORGANIZATION
ADMIN



VETERINARY
DOCTOR



Quality Aspects

Usability

- A simple and uncluttered user interface
- Easily accessible - it's a website
- Supports multiple screen sizes - responsive

Performance and Reliability

- Database transactions
- Caching static content

Availability

- Deployed on the cloud
- Multiple replicas of the application





Security

- Hashing passwords & authentication details.
- HTTPS / SSL enabled
- Countermeasures against SQL injection and others attacks

Maintainability

- MVC architecture.
- Follows best practices and standards.
- Good developer documentation and comments

Portability

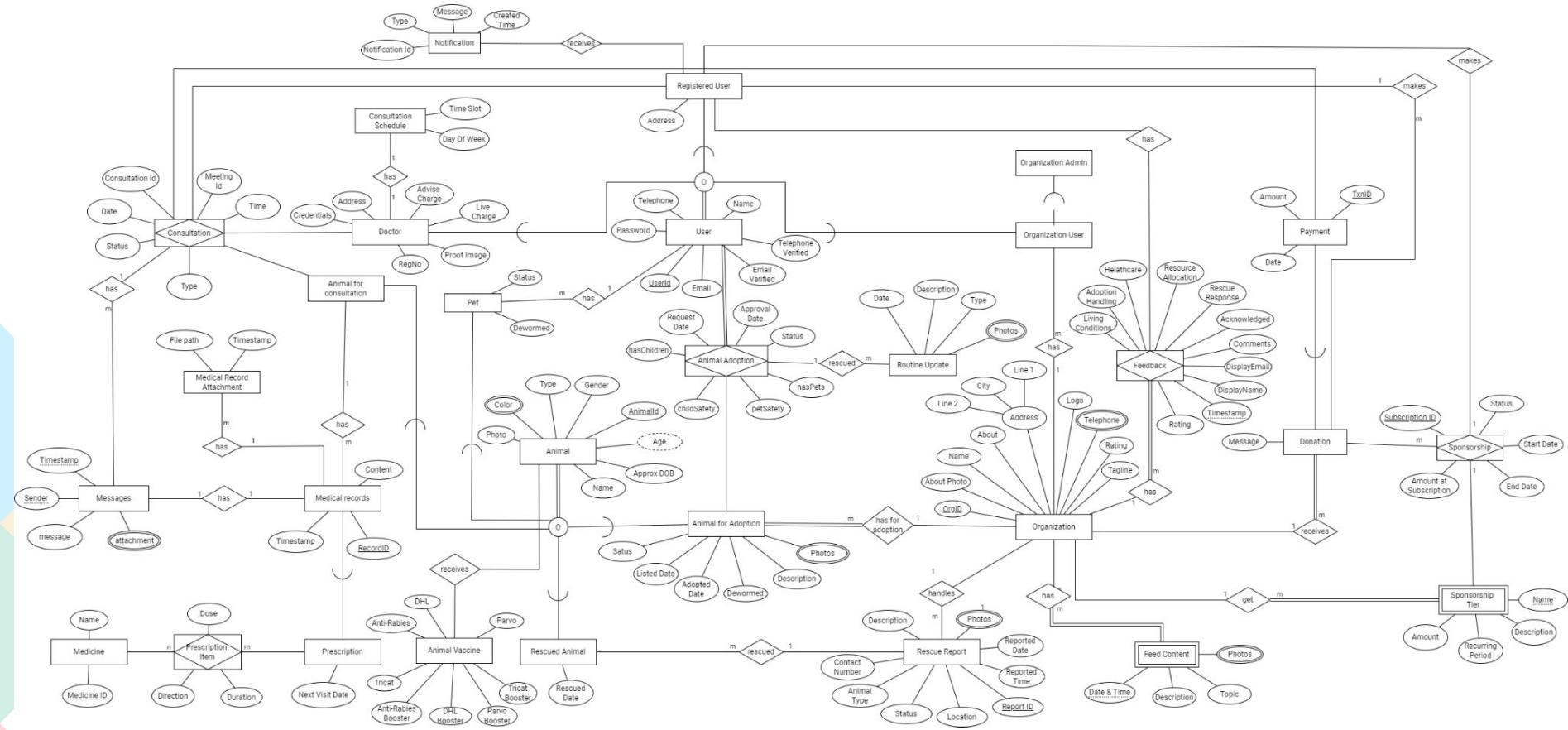
- Usage of proprietary or non-standard APIs is minimized
- Standard formats are used for data communication and storage.
- Abstraction of interfaces where possible

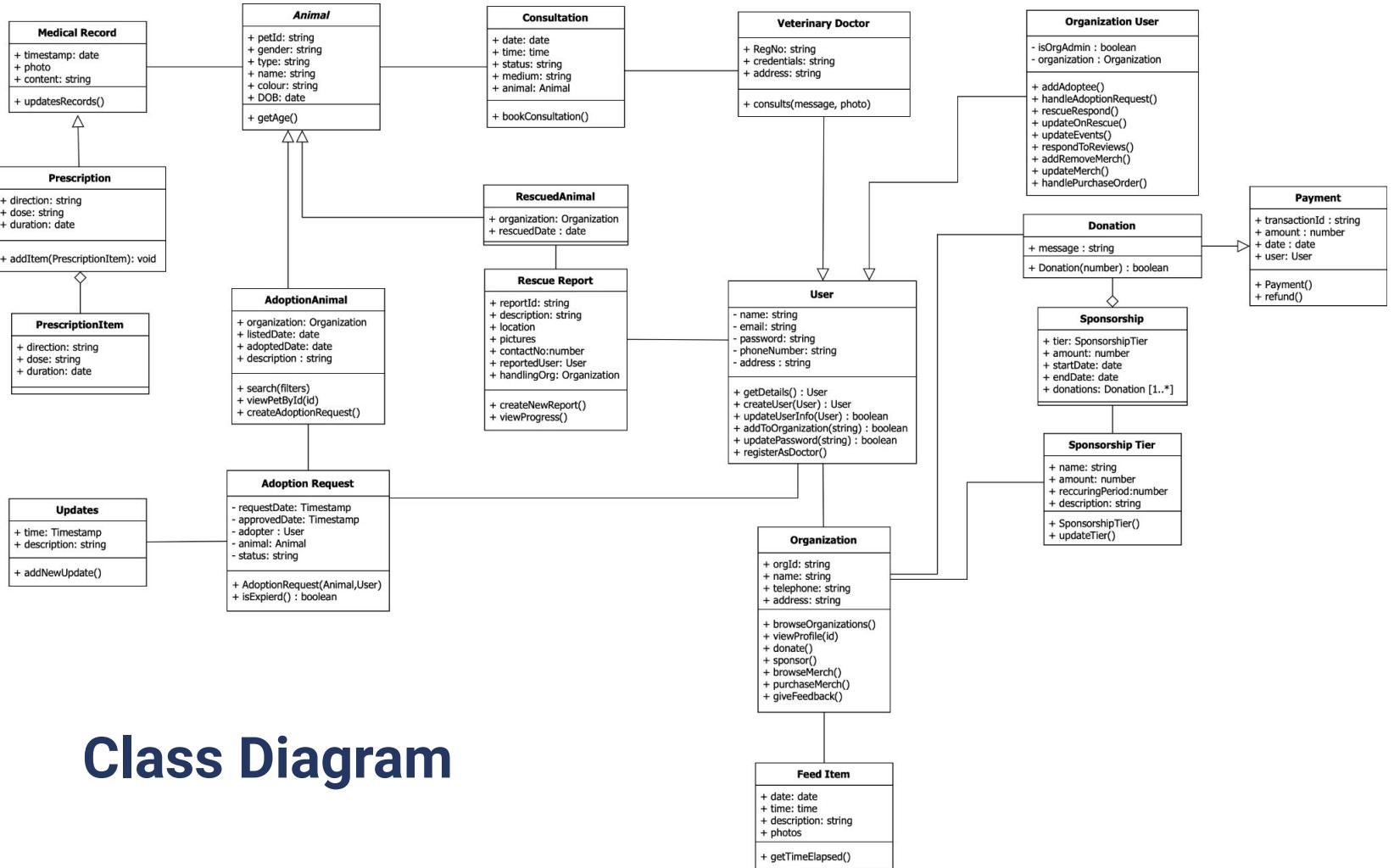


System Analysis & Design



ER Diagram



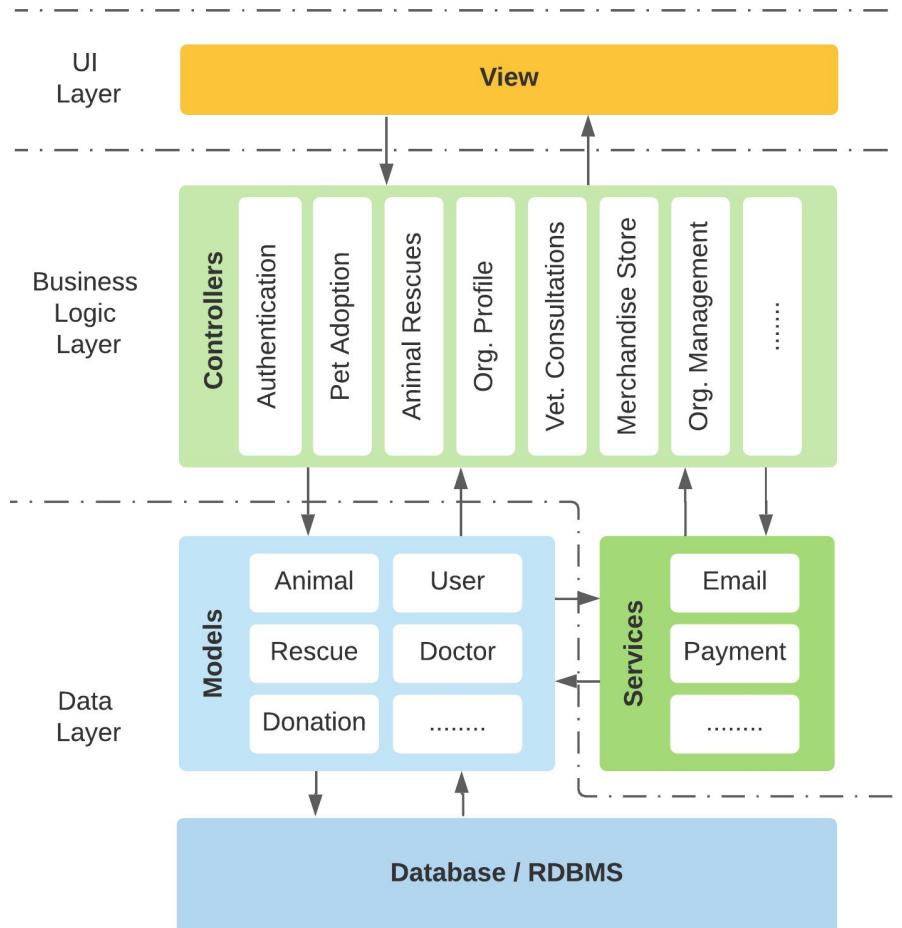


Architecture - MVC

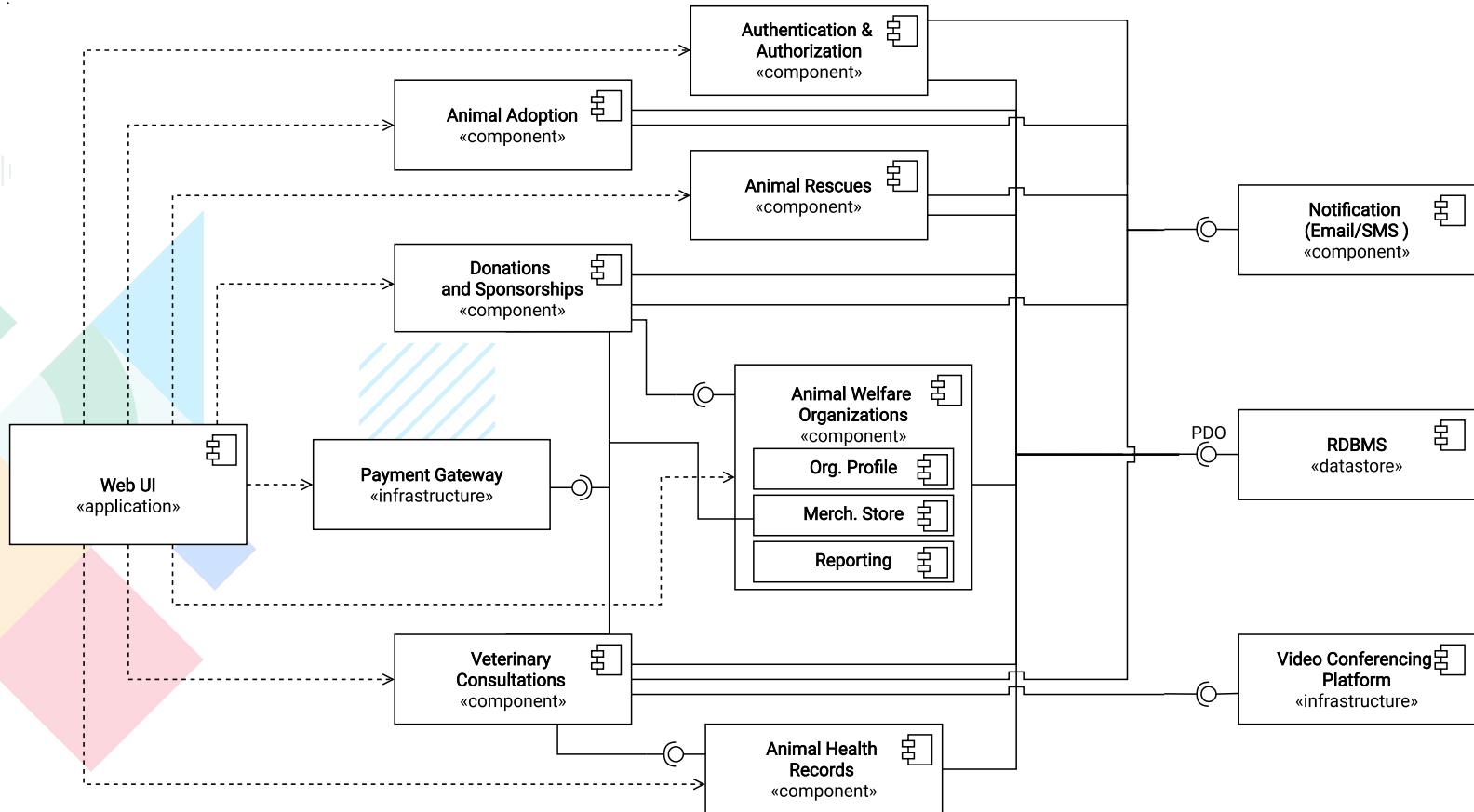
Model - View - Controller

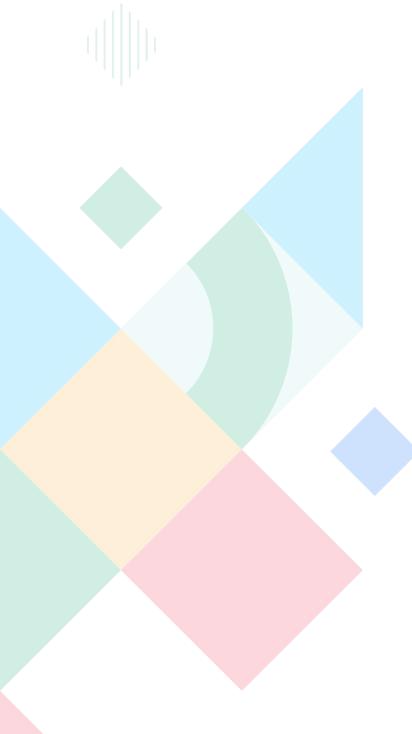
Why ?

- Separation of Concerns
- Reusability
- Simultaneous Development
- Ease of Modification



Component Diagram





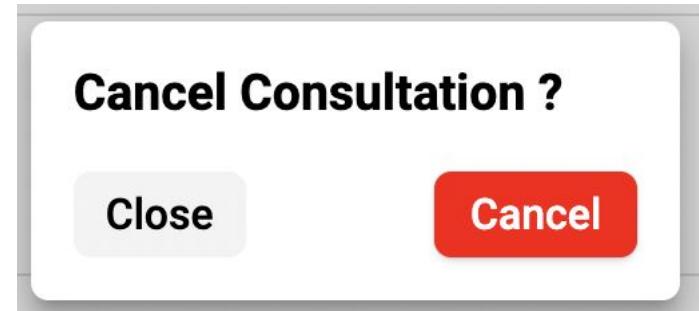
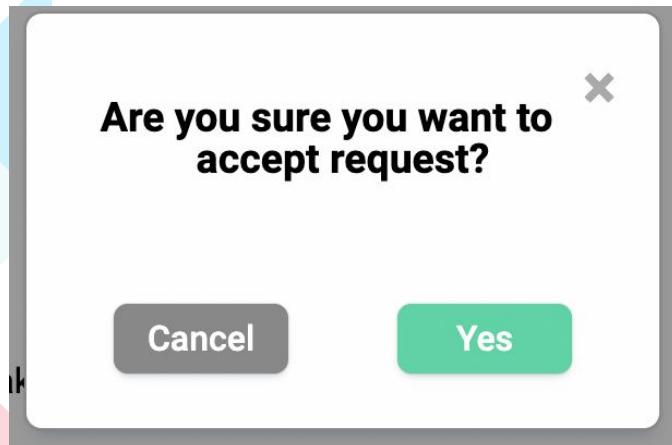
Usability & User Experience



Proper usage of colors and visual indicators.

ADOPTEE	ADOPTEE TYPE	ADOPTER	REQUEST DATE	HAVE PETS	HAVE CHILDREN	STATUS	INFO		
 Tigger ♂	Dog	Hiruni Dahanayake	2021-08-01	YES	YES	PENDING	Details	✓ Accept	✗ Reject
 Leo ♂	Dog	Dalana Pasindu	2021-09-02	NO	YES	PENDING	Details	✓ Accept	✗ Reject
 Oliver ♀	Dog	Dalana Pasindu	2021-09-12	NO	YES	ADOPTED	Details		
 Milo ♀	Dog	Hiruni Dahanayake	2021-09-02	NO	YES	ADOPTED	Details		

Confirmation & Warning messages



Responsive Interfaces.

Adoptee
SAVE A LIFE. ADOPT A PET

Adoptions Rescues Organizations Veterinary Consultations Hiruni Dahanayake

Report Injured Animals

Emergency

Description *

Where can we find this animal ? *

Current Location

* use the marker in the map to give exact location

Contact Number *

Format: 07XXXXXXXX

Animal type

Dog Cat Bird Other

Photos *

Choose Files No file chosen

Report

Map showing locations like KOTUWEGODA, SUBUTHIPURA, RAJAMALWATTA, ETHULKOTTE, and BATTARAMULLA SOUTH. A red marker is placed near the Sri Lanka Nippont Ave area.

Keyboard shortcuts Map Data ©2022 200 m Terms of Use Report a map error

Adoptee
SAVE A LIFE. ADOPT A PET

Hiruni Dahanayake

Report Injured Animals

Emergency

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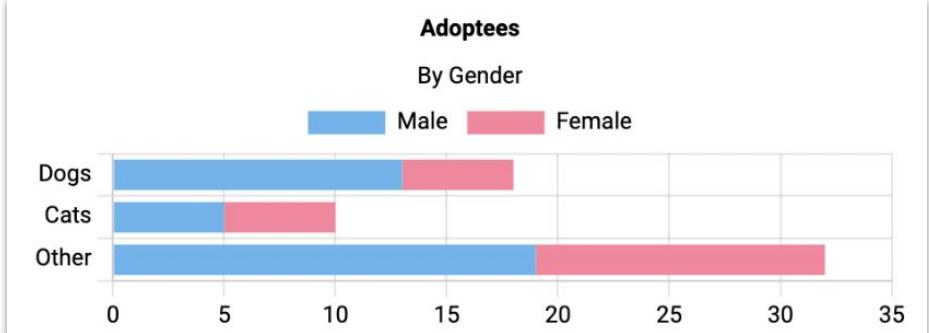
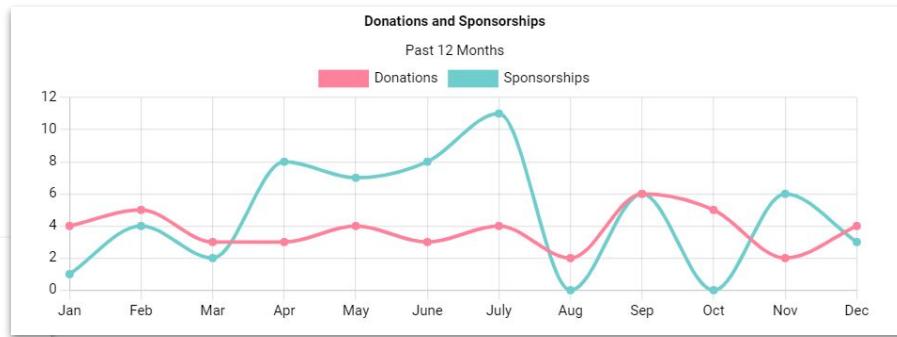
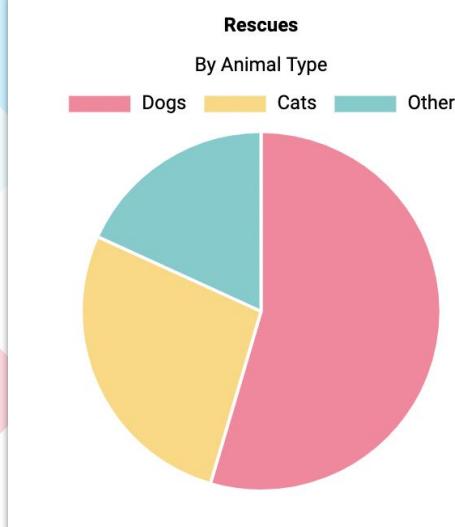
Current Location

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Map showing locations like KOTUWEGODA, SUBUTHIPURA, RAJAMALWATTA, ETHULKOTTE, and BATTARAMULLA SOUTH. A red marker is placed near the Sri Lanka Nippont Ave area.

Map Data 200 m Terms of Use Report a map error

Graphs & Charts to visualize data



Testing

- Used Black box and White box testing methods.
- Validated the system against the requirements in SRS.



Test Case	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
TC001 User Sign Up Process	- Go to website - Click Sign Up - Enter Email - Enter Password - Enter Confirm Password - Fill Other user information - Click Submit	- Email = user@mailinator.com - Password = User@123# - Contact number = 0762344566 - Address = No. 137, Pannipitiya Road, Kottawa	- Information Validated - Verification Email Sent - OTP set and verified - Account Created Successfully	As Expected	Pass
TC002 User Sign In	- Go to website - Enter Email - Enter Password - Click Submit	- Email = user@mailinator.com - Password = User@123#	- User logged into application - Redirected to Respective Homepage	As Expected	Pass
TC003 User Sign In with invalid credentials	- Go to website - Enter Email - Enter Password - Click Submit	- Email = user@example.com - Password = wrongpassword	User should not Login into an application		
TC004 Update User Profile	- Go to Profile - Enter new data - Click submit	Name = Hiruni	user data updated	As Expected	Pass
TC005 Change Password	- Go to Profile - Enter new data - Confirm password by email link	new password = Qwerty1!	Password changed	As Expected	Pass
TC006 Reset Password	- Go to login page - Select forgot password - Enter email address - Set password by emailed link	new password = Qwerty1!	Password changed	As Expected	Pass
TC007 Register Organization	- Go to website - Select Register as Organization	- Organization name = Pet Sanctuary - Contact number = 0762344566	- Email verification link received.	As Expected	Pass

Technologies Used

FRONT-END



BACK-END



Technical Knowledge Gained

- Building Responsive & Modular UIs with HTML / CSS
- Writing complex & dynamic queries for the data needed for the views & reports using SQL .
- Database connectivity & MVC implementation using PHP
- Using javascript to provide a better user experience
- Version control with Git

```
public static function findConsultationsByDoctorId($doctorId, $type, $search) {  
  
    $query = "SELECT c.* FROM `consultation` c  
            inner join animal a on a.animal_id = c.animal_id  
            WHERE c.doctor_user_id = $doctorId  
            and status in ('ACCEPTED','COMPLETED')"  
    . (isset($type) && $type != "ANY" ? " and c.type = '$type' " : "")  
    . (isset($search) && $search != "" ? " and a.name like '%$search%' " : "");  
  
    $consultations = self::select($query);  
  
    $consultations = array_map(function ($item) {  
        $item["animal"] = Animal::getAnimalById($item["animal_id"]);  
        $item["user"] = User::findUserById($item["user_id"]);  
        return $item;  
    }, $consultations);  
  
    return $consultations;  
}
```



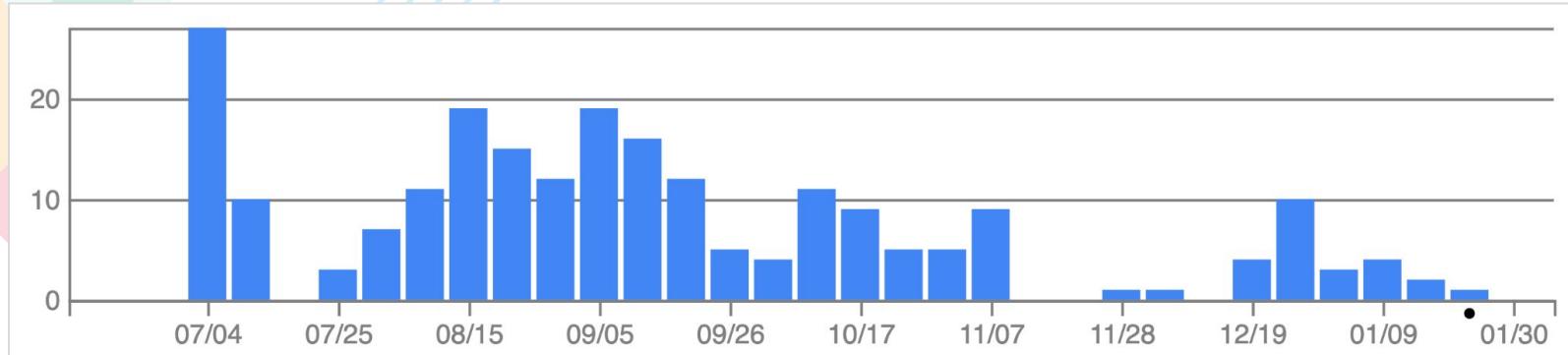
Version Control

fd03d8cd84 ▾ 1 branch 0 tags Go to file Code ▾

OviniMedagedara analytics report page created and minor changes fd03d8c 13 days ago 276 commits

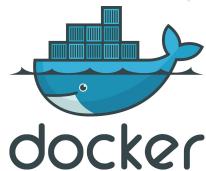


<https://github.com/dalanad/adoptee>



Deployment Plan

- ❑ Domain : “www.uadopt.me”
- ❑ Containerize the application using Docker.
- ❑ Use a Google compute engine instance (vm) as database server.
- ❑ Deploy the application on a container runtime (eg: cloud run)



Issues addressed

- Verification of vaccination records
 - Photo proof of vaccination book
- Reports for Organizations
 - Adoption Updates Report
 - Rescue to Adoption Time analysis
 - Rescue Information
 - Donations Summary
- Added Information on pets common problems
- Ability to access details of user's Removed Pets

DEMONSTRATION



THANK YOU

