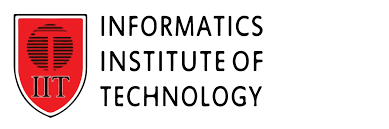
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**Foundation Certificate in Higher Education**

Project Title -

Module - DOC 330 Designing Innovative Solutions

Module Leader - Mrs. Jananie Mayooresan

Type of Assignment - Group Coursework

Submission Date – 27/06/2022

Group ID: J12

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# Abstract

In the modern world, there are a lot of stray dogs. Due to the high number of dog bites reports worldwide, this is a major issue for many nations. Even the proper vaccinations are not given to stray canines. There are many pet adoptions, but none of them offer an online service.

Our group is working to develop an online pet adoption service. We're going to create an application. Users of this app can upload pictures of stray dogs in their neighborhoods. Additionally, we are open to collaborating with already-established pet adoption facilities.

# Acknowledgment

The success and outcome of this assignment required a lot of hard work and assistance from all our group members Akindu, Hansaja, Praneeth, Arafath, Ayyub, and Sandin. All work we have done as a group would not have been possible without our module leader Ms.Jananie Mayooresan, lecturers Ms.Isuri Udara and Ms.Thrushi Sandmali who has provided us with their valuable guidance, comments, and suggestions throughout the lectures as well as the tutorials.

To hand over the assignment within the time allocated to us by our Module leader Ms.Jananie Mayooresan was a great success for us.

There might have been certain issues but seeing the final result of our assignment and looking back on these last few weeks of doing the group work how all members got together to make this a success by bringing up various ideas on how this topic can practically relate to people’s day to day life’s. Even the fact that everybody helped each other despite their busy schedules, staying up late in zoom meetings even though the power cuts interrupted us, and breaking that barrier of being strangers in a group to actual friends was just wonderful. Finally, we would like to express our gratitude to all our lecturers, friends, and family who helped us with even a small help because all that bits and pieces helped us to finish this assignment.

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# Introduction and Description of the Project

Even though there are many dog adoption centers nowadays, there are still many stray dogs roaming the streets. The issue is that there isn't a good connection between dog adoption centers and the people. A person must physically visit the adoption centers if they want to adopt a stray dog. The reason for this is that while dog adoption centers have websites, they do not offer online pet selection features.

Due to a large number of stray dogs in Sri Lanka, this issue was investigated by Group J12 of the January foundation batch. By creating an application, the team has discovered a way to solve this issue.

Users of this application can add pictures and details about stray dogs in their local areas. Furthermore, this app is willing to collaborate with already established pet adoption centers. Anyone planning to adopt a stray dog can select a dog from a selection of images. Veterinarians will be registered in this app by J12 members. Then users can inquire about their pets' health issues. This app also has a few paid adverts, and the money from them will go to registered pet adoption centers.

## Importance of This Application

# Problem Specification

A picture containing ground, dog, outdoor, mammal

Description automatically generatedOne of the most serious issues in Sri Lanka is the large number of stray dogs roaming the streets (island-wide). There are an estimated 3 million street dogs in Sri Lanka, and many of them suffer greatly from starvation, untreated illnesses, and horrendous injuries (The Mighty Roar Project 2022). Furthermore, most pet-owning households reject vaccination and sterilization, resulting in pups being dumped on the streets or at temples. These puppies have a low probability of survival since they are vulnerable to infections or are involved in traffic accidents. As a result, stray dog overpopulation has become a severe problem across the country (OIPA 2021)

Figure Malnutrition stray dog

Rabies is a potentially lethal illness spread by a variety of animals, most notably dogs in Sri Lanka. Dog bites are becoming an increasing worry for both locals and tourists on the island. Because of the possibility and related fear of rabies, most people view stray dogs as a threat and a nuisance. People become outraged and paint all stray dogs in the same shade after a few rare cases of dog attacks. (The Mighty Roar Project, 2022)

There are thousands of dogs in Sri Lanka, but not nearly as many good homes. Whereas in the UK or the United States, a dog may be taken to a shelter or pound. So, why don't people adopt dogs here? One of the reasons for this is the lengthy process. If a person wishes to adopt a dog, he must physically visit one of the pet rescue organizations. No one wants to spend time going through the procedure of adopting a dog in this busy world where one does not have time for his daily routines.

Currently, there are a few pet rescuing groups in Sri Lanka, such as Embark and Animal SOS Sri Lanka - Sanctuary, committed to improving the well-being of street dogs. However, they lack an application and web services to manage their work. With an online service where people can choose a dog, they want to adopt online and then have the pet delivered to their door by rescue center workers people get more inclined to adopt stray dogs, and also where people may upload stray dogs to their locations to the app so that rescue centers may bring the stray dogs to shelters and take care of them.

Additionally, there is a fuel shortage in Sri Lanka right now, which makes it difficult for people to visit dog adoption facilities, buy dog supplies, or take their dog to the vet. Due to a lack of public awareness, dog rescue organizations also lack sufficient funds.

A person holding a dog

Description automatically generated with medium confidence

# Solution Outline

The biggest concern highlighted above is that dogs have no one to protect them, and not everyone wants to adopt pets, especially unvaccinated dogs. As a result, these dogs are abandoned. Our group has developed an online application that will serve as a platform for individuals to request assistance for the dogs so that they can live healthy lives and find a home.

This application will provide the following features:

1. A dog portfolio

A user can upload images of stray dogs, dogs they are willing to give up for adoption, or dogs who are being abused by their owners. A space will be provided so that the user can provide a detailed report on the dog’s health and living conditions. For a person wishing to adopt a dog to completely understand the dog they will acquire, this space will provide the dog's age, gender, and breed, among other details.

1. A direct line to a dog rescue center or veterinary hospital.

A user can request help for stray dogs with no home from a dog shelter. A user can get in touch with a rescue facility to come get these dogs who need to be treated or vaccinated. Based on the user's location, this application will display the closest veterinary hospital.

1. Pet adoption services

A person wishing to adopt a dog can select a dog based on factors like age, gender, and breed by browsing the dog portfolios. The user will save time by not having to go to the store

1. In-app community feature
2. Online dog supply store.
3. Blog space.
4. Online dog magazines

We will require a source of funding to deliver these services. We are seeking for donations from charitable groups, the government, and concerned citizens. Another source of income will come from advertisement from organizations that produce dog food and accessories and wish to market their products to specific customers and dog magazine publication companies. These funds will be donated to dog rescue centers in order for them to provide better services and homes for dogs that are unable to be adopted.

# Key Benefits

## You can save a life through this app.

When you adopt a stray dog, you are not only saving a living being but also a loving new companion, you make space for other stray dogs too who desperately need it, Creating this application of goodness. We Can use this application to adopt lots of loving creatures from horrific circumstances such as cruelty, neglect, and abandonment, or quite simply their owners were no longer able to look after them due to illness or a change in the situation.

## You will save money from this application.

Stray dogs that enter the rescue center are frequently microchipped, spayed, or neutered, and given vaccinations so the person who will adopt the dog will be able to save money; it means the user would not have to pay for any of them and adoption is free. There will be Donations for pet rescue centers from the users too.

## Emotional and dogs can live longer

We can admit that stray dogs die from hunger but when people adopt them, we can reduce the chance of their dying. Also, some stray dogs die from car accidents. From this application, we can find them new homes and the chance of their death is very low because they are safe with their owners.

## You might get an unexpected pet.

There are many different dogs available for adoption, Also, any dog at any age can be adopted. even though you might already have a general idea of what you're looking for. This could indicate that a dog you never would have thought would be the best match for you. Therefore, when using this application, it is important to keep an open mind.

## Direct communication

In the present world where everyone is living a competitive lifestyle, it is hard to find spare time to visit the pet stores and choose the ones you want. But in this case, you don't need to go to a pet store because this application will provide you space to choose the pet you like, and they will deliver your pet to your doorstep. As we can see this app is a benefit to all the people who are living a busy lifestyle yet in need of a pet.

## Animal diseases are minimized

Dogs that roam the streets are more prone to breeding diseases. For example, it helps to get rid of dangerous diseases such as rabies and skin diseases. Elimination of diseases caused by exposure to sun and rain.

## Urban beautification

Accidents and bites are more common when dogs roam in urban areas. When dogs are depleted, car accidents and barking are reduced. Then things like city beautification happen automatically. Then the cost of beautifying the city goes down a bit.

## For those who are looking for a pet that can save time

The old-fashioned way of getting a pet on the road. Talking to a friend, asking if there are any pets, strolling along the road, etc., will reduce the wastage of time. It allows us to get an animal of any color, any age.

## Find a home

Illnesses that occur when a home is found are reduced. Love, kindness, and inquisitiveness. This will make the dog grow healthier.

## Receiving food and drink

Lack of food and drink can lead to malnutrition. When we have a kind owner, we can minimize those things.

# References:

# Appendices

|  |  |  |  |  |  |  |
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| **Topics** | **20211374**  **Ayyub** | **20211273**  **Akindu** | **20211210**  **Hansaja** | **20211404**  **Praneth** | **20211613**  **Arafath** | **20200595**  **Sandin** |
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## Workload Matrix