



UNIVERSITY OF  
PLYMOUTH



# PUSL2021 Computing Group Project (23/AY/AU/M)

## **“Petopia”**

Web application and mobile application

Project Proposal

Group – 45

Submission Date : 25<sup>th</sup> of October

### **Group Members**

H.H.M.A. Herath – 10900321

S.P.S. Vidushan – 10899429

S.R. Mendis – 10898818

G.A.Y. Isunima – 10898784

M.S.H. Siriwardhana – 10898918

## **Table of Contents**

<b>Project Introduction and Overview .....</b>	<b>3</b>
<b>Main Objectives of The Project .....</b>	<b>4</b>
<b>Target Users.....</b>	<b>5</b>
<b>Application Features and Description .....</b>	<b>6</b>
<b>Gantt Chart .....</b>	<b>8</b>

## **Project Introduction and Overview**

Our project aims to connect pet owners with the essential services and products their beloved companions need. The project focuses on three main objectives.

Firstly, providing an online platform for scheduling veterinary appointments easily. Pet owners can book appointments while enjoying the flexibility to choose appointment times, preferred veterinarians, and clinic locations based on convenience. Simultaneously, vet clinics, hospitals, and practitioners can register and create profiles, creating a collaborative space that strengthens trust between pet owners and a diverse range of veterinary professionals.

Next, we provide an online marketplace connecting pet owners with reputable sellers and breeders. This platform allows efficient advertisement of pets, including high-quality images, detailed descriptions, prices, and health records. This ensures transparency, empowering users to make informed decisions when adding a new member to their family.

Finally, adding an online pet shop that is a one-stop destination for pet owners seeking premium quality affordable supplies from nutritious food and essential medications to top-notch grooming supplies and toys, our collection caters to a broad range of pets. At the same time introducing a subscription service further enhances convenience, allowing users to personalize packages and delivery frequency with, monthly, bi-monthly and quarterly options, subscribers can ensure a hassle-free supply of pet's regular needs eliminating concerns about running out of vital supplies.

With this platform we cater to a diverse user range including pet owners seeking convenience, veterinary professionals providing specialized care, responsible pet sellers and breeders, and individuals with a passion for offering high-quality pet products. Together we hope to build a community that values the wellbeing of pets.

## **Main Objectives of The Project**

### **Connect Pet Owners with Vet Medical Centers:**

- Introduces an online platform for scheduling veterinary appointments with ease. With just a few clicks Users can book appointments and will have the flexibility to choose appointment times, veterinarians, and clinic locations according to their convenience.
- At the same time Vet clinics, hospitals and practitioners can register on our platform where they can create profiles that showcase their qualifications and expertise. This will create a collaborative space, connecting pet owners with a diverse range of veterinary professionals as well as strengthening the trust between them.

### **Pet Shop with Subscription Services:**

- Introduces an online pet shop for pet owners who are seeking a one-stop destination for their pets' needs. We offer a wide range of premium high quality and low-price pet supplies, including nutritious food, essential medications, and top-notch equipment. We offer an extensive range of items including pet foods, supplements, grooming supplies, toys, and more with great prices on high-quality products. Our collection has been thoughtfully chosen to accommodate a broad range of pets.
- Also introducing a subscription service for users to purchase their pets' regular needs without worrying about running out of vital supplies. We provide several packages concerning all types of pets also, subscribers can personalize their packages and frequency of delivery including monthly, bi-monthly, and quarterly by ensuring a convenient and hassle-free supply of essential items.

### **Marketplace for Sellers and Breeders:**

- Creating a dynamic online marketplace that connects pet owners with reputable sellers and breeders. Both sellers and breeders can efficiently advertise pets by attaching high-quality images, detailed descriptions, prices, health records, and additional information. This multifaceted approach ensures transparency while empowering users to make informed decisions.

## **Target Users**

### **Pet owners:**

- Pet owners are individuals who have taken on the responsibility of caring for and providing a home to one or more animals commonly kept as pets. Their responsibilities include providing nutrition, veterinary care and ensuring a safe and loving environment for their animal companions.

### **Pet professionals (Veterinarians):**

- Pet professionals are individuals who have expertise and specialized training in various aspects of pet care and services. They play crucial roles in ensuring the well-being, health, and happiness of pets.

### **Pet sellers and breeders:**

- Pet sellers and breeders are individuals involved in the sale and breeding of animals, often specializing in specific species, breeds, or types of pets. They play a key role in providing animals to individuals or families looking to add a pet to their household.

### **Pet buyers:**

- Pet buyers are individuals or families who purchase or adopt animals as pets for companionship, emotional support, and enjoyment. These individuals also prioritize ensuring a healthy pet, their financial capabilities and selecting a suitable breed that aligns with their living style.

### **Pet product suppliers:**

- Pet product suppliers are individuals, companies, or businesses that provide a wide range of products specifically designed for pets. These products can encompass various categories including food and treats, toys, grooming supplies, accessories, healthcare items and more.

## **Application Features and Description**

- **User-friendly Interface:**
  - Minimalist simple interfaces to easily accessible.
- **User profile:**
  - For easy access to customer information.
- **User registration:**
  - To Register themselves on the platform.
- **Vet registration:**
  - Allows vets to register on the platform.
- **Vet profile:**
  - Allows vets to manage their profile on the platform.
- **Advanced search filters:**
  - For an easy accurate search experience.
- **Search bar:**
  - To search for what they want.
- **Add to cart option:**
  - facilitates the online shopping experience.
- **Online payment option:**
  - Enables users to make payments online.
- **User feedback system:**
  - For giving feedback and rating systems of breeders and vets.
- **Chatbot:**
  - For chat between product sellers and customers.
- **Generative AI for Quick instruction and detail provider:**
  - To get the most accurate answers from customers through the internet.

- **Pet advertisement:**
  - To advertise selling pets and breeders listing.
- **Listening with Brief details:**
  - To find accurate products.
- **Saved listing:**
  - To save favorite listings in the marketplace and pet shop.
- **Order history:**
  - To save previous order details.
- **Subscription plan:**
  - For pet owners to buy pet products online.
- **Customizable Subscription plan:**
  - To customize subscription plans according to pets.
- **Subscription management:**
  - To manage subscription plans.
- **Nearest vet contacting system:**
  - To find the nearest vets and hospitals in case of emergency.
  - And find visiting vets for critically ill pets.
- **Appointment scheduling:**
  - Schedule appointments and token system from vet/hospital to users.
- **Notification Reminders:**
  - Notify when the matching listing is sorted and notify appointments.
- **Quick First aid instruction:**
  - When humans get harmed by pet's quick first aid guides and AI instruction system.

## Gantt Chart

- Covering all the main objectives, target users, and application features and descriptions of the project, the following Gantt chart displays the required time period for the development of the newly proposed application.

