



INSTITUTE FOR ADVANCED  
COMPUTING AND  
SOFTWARE DEVELOPMENT  
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Documentation On

**“ONLINE PET SHOP”**

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*Submitted By:*

**Group No: 80**

**Pallavi Prakash Chavan Roll no: 1126**

**Sayali Rajendra Patore Roll no: 1172**

**Mr. Prashant Karhale**  
**Centre Coordinator**

**Mr. Akshay Parab**  
**Project Guide**

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## **1. Introduction**

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace. The Online Pet Shop web application is intended to provide solution for customers and sellers to buy or sell their pet through a single gate way using the internet. The scope of this system is divided into mainly two parts, customer and sellers. Customer and sellers who are literate with computers. Any user who wants to buy or sell pet can visit the website. The seller can add his pet to the shop by providing the details of pet on this web application. The customer can browse through the shop and see a list of pets uploaded for sale by other sellers and purchase them online. This web application will provide an option for storing and managing the basic information about the user and also an option for storing and managing the basic information about pet.

### **Document Purpose**

The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between the sellers and their customers who are purchasing the pets. This Online Pet Shop is developed to provide the following services:

### **Enhance Business Processes:**

To be able to use internet technology to project to the global world instead of limiting their services to their local domain alone, thus increase their return on investment (ROI).

### **Online PetShop:**

A tool through which seller can sell a pet and customer can buy the pets through this web application.

**Problem Statement**

Existing system for a pet shop is based on our traditional way keeping records and details on paper and registers. Access of these details and papers are not granted to common member in absence of the authority. It is hard to manage all the pet shop with pen and paper. It gets really hard to maintain the records and then keep track of past sellers, customer and pets. Hence this system is proposed to overcome the flaws of the existing system and giving power to the user of the pet shop so that he/she will be able to buy/sell the pet.

**Product Scope**

The area covers include:

- J2EE Technology used for the development of the application.
- General customers as well sellers will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

**Aims & Objectives**

Specific goals are: -

- To produce a web-based system that allow the user to register, login and buy/sell pet.
- To provide an option for storing and managing the sales details of the shop.
- To provide an option for storing and managing the basic information about pets and pet products in the shop.
- To provide an option for storing and managing the basic information about the customer
- To track the information about sold pets and products to a customer.

## **Overall Description**

### Product Perspective:

#### 2.1.1 Existing system function:

Existing system for a society is based on our traditional way keeping records and details on paper and registers. Access of these details and papers are not granted to common member in absence of the authority. For purchasing for various pets (cat,dog,rabbit etc) in shop customer need to be present on site for purchasing. Due to some unavoidable reasons some members cannot purchase pets.

## **PROPOSED SYSTEM**

### Product functionality:

Online Petshop provides the features for customer, sellers. It includes several functionalities describes as below:

It provides facility to add, update, delete pet and view the pets who are purchasing a particular pet in the shop. Seller can view their details and also update it if that particular pet is sold to any new customer. A Petshop is a retail business which sells different kinds of animals to the public. A variety of animal supplies and pet accessories are also sold in pet shops. The products sold include: cats dogs of various breeds. Some pet stores provide engraving services for pet tags, which have the admin's contact information in case the pet gets lost.

### **Benefits of Online Pet Shop**

- This online pet shop is fully functional and flexible.
- It is very easy to use.
- This online pet shop helps in back office administration by streamlining and standardizing the procedures.
- It saves a lot of time, money and labour.
- Eco-friendly: The monitoring of the pet shop and the overall business becomes easy and includes the least of paper work.
- The application acts as an office that is open 24/7.
- It increases the efficiency of the management at offering quality services to the customers. It provides custom features development and support with the application.

### **Users and Characteristics:**

#### **Vendor:**

- Vendor can login to the system.
- Add new pets.
- Delete pets.
- Update pets.
- Contact with all the customers by providing contact service.

#### **Customer:**

- Customer can login to the system.
- View his/her details.
- View the list of all customers in the pet shop.
- View the list of all products in the pet shop.
- Buy the product
- Make payment

### **Operating Environment:**

#### **Server Side:**

**Processor:** Intel® Xeon® processor 3500 series

**HDD:** Minimum 500GB Disk Space

**RAM:** Minimum 4GB

**OS:** Windows 10

**Database:** MYSQL

Client Side (minimum requirement):

**Processor:** Intel Dual Core

**HDD:** Minimum 80GB Disk Space

**RAM:** Minimum 1GB

**OS:** Windows 8.1

**Design and Implementation Constraints:**

- The application will use J2EE, Angular Js as main web technologies.
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since Online Pet Shop is a web-based application, internet connection must be established.
- The Online Pet Shop will be used on PCs and will function via internet or intranet in any web browser.

**Specific Requirement**

**External Interface Requirements:**

User Interfaces:

- All the users will see the same page when they enter in this website. This page asks the users a username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.



Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

**OS: Windows 10, Web Browser:**

The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.

## System Design

### Data Flow Diagram

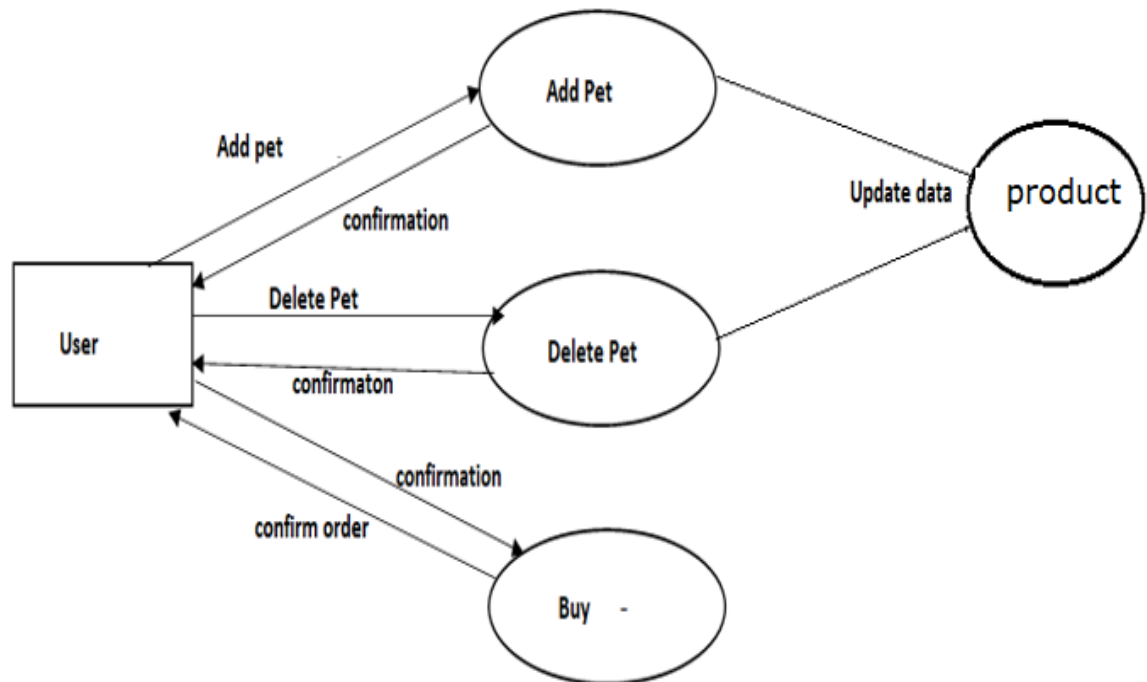
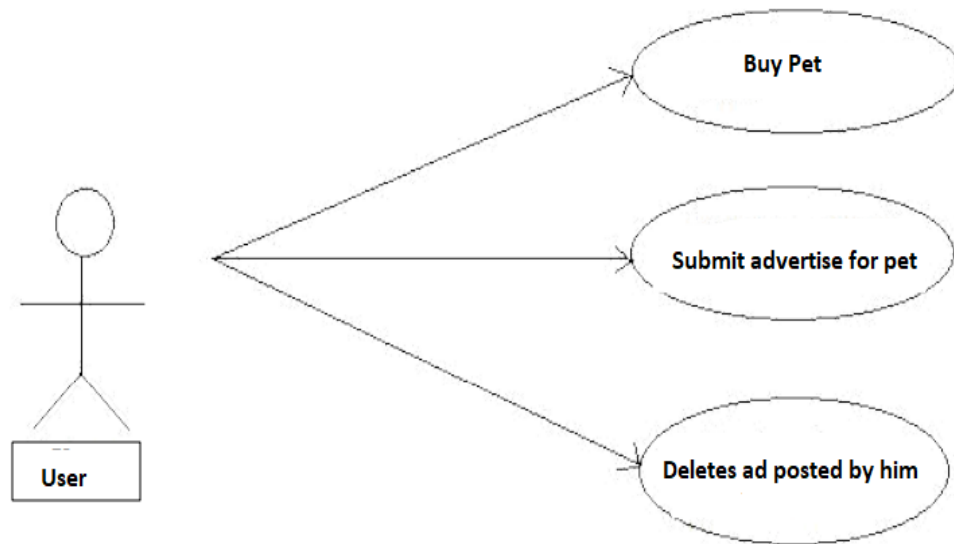
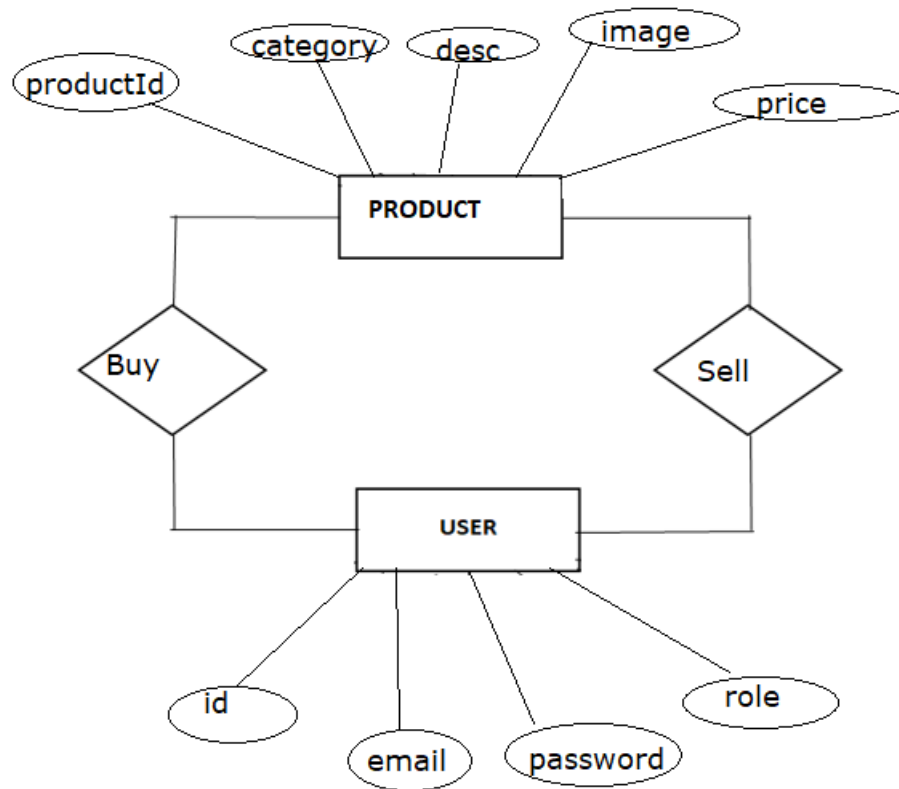


Figure 1: Data Flow Diagram

**Use Case Diagram****Figure 2: Use Case Diagram**

**ER Diagram****Figure 3: ER Diagram**

**Table Structure****USER**

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
id	Int	NO	PRI	NULL	auto_increment
email_id	varchar(50)	YES		NULL	
password	varchar(50)	YES		NULL	
role	varchar(30)	YES		NULL	

**PRODUCT**

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
product_id	Int	NO	PRI	NULL	
description	varchar(255)	YES		NULL	
Image	varchar(255)	YES		NULL	
Price	Int	NO		NULL	
product_name	varchar(255)	YES		NULL	
Quantity	Int	NO		NULL	
cust_id	Int	YES		NULL	

**CUSTOMER**

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
cust_id	int	NO	PRI	NULL	
Address	varchar(255)	YES		NULL	
cust_name	varchar(255)	YES		NULL	
cust_email	varchar(255)	YES		NULL	
Role	varchar(255)	YES		NULL	

**VENDOR**

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
vendor_id	int	NO	PRI	NULL	
Role	varchar(255)	YES		NULL	
vendor_address	varchar(255)	YES		NULL	
vendor_name	varchar(255)	YES		NULL	
vendor_email	varchar(255)	YES		NULL	



## **Conclusion**

The developement of this Online Pet Shop is great improvement over the manual system which uses lots of manual work and paper. The computerization of the system speeds up the process. The Online Pet Shop is fast efficient and reliable, Avoids data and inconsistency. It contains all the functional features described in objective of the project.

## **Future Scope**

This project can be enhanced further by adding pet grocery to online pet shop as pet owners are always on a lookout for good quality information on pet care and pet health. Pet food is the fastest growing segment when it comes to pet products. online payment facility for the members to reduce the extra work of the admin. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best of present this free and user-friendly website to customers. Message and Email alerts for various happenings in the shop can be added to the system so that users do not miss the updates .

## **7.0 References**

[1] [\*"Ontario's Animal Protection Law Strongest In Canada"\*](#). Retrieved 3 April 2014.

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[3] [\*"Ten Fast Facts about Pet Shops"\*](#). Retrieved 3 April 2014.

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[1] [\*"British pet shops to be banned from selling puppies and kittens"\*](#). The Guardian. 23 December 2018. Retrieved 29 November 2019.