

# Pet Care and Supplies – PetsVets

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## ABSTRACT

Due to the increase in demands for pets in India, the idea to make a web application with the same concern of pet care and supplies stuck on my mind. The profit margin based on the problem is also very high and growing rapidly. The most emotional feature is that when we love someone, or we are attached to someone then money does not come into the picture to think about. Alike the emotional thing, pet owners also want to spend much caring time for their pet and get best product and supplies for their pet. The goal of this project is to develop a website and help people save money on pet health products on providing affordable pet supplies with excellent customer service considering the need of the customer. The basic features provided by the app would be Pet food, pet grooming products, depending on the categories and breed. The purpose of this web application is to explain the architecture of pet industry while stating the key fact in pet care and supplies market. This aims at making the application user friendly hence adding the chat bot services and where user can ask any query related to the products or if any help required and web push notification service, it is an alert style messages that slide in at the top or bottom right-hand corner of a desktop screen, depending on the operating system. Web push notifications are delivered on a user's desktop or mobile device anytime they are connected to internet and have their browser open. Also, for this project Linux server will be used for hosting with cPanel, it is the most popular web hosting platform, offers features commonly used by web designers.

**Keywords:** *PHP, Pet Supplies, Web Application, Unit Testing, Online Appointment, Linux cPanel*

## I. INTRODUCTION

As we know there are various options for business in the pet care industry. These options just keep growing and enhancing day by day as people comes up with new innovative ideas and ways to pour love and care on their pets. Given under are few of the area of businesses where the pet care industry is growing currently. [1]

**Pet food** - Pet foods are the fastest growing thing when it comes to pet supplies and products. Pet owners get to choose from a various type of branded food and snacks these days. Pet food mainly consists of variety of Vitamins and materials made up f plants which are good for animal's health. There are different categories of branded food available for the pets, which the pet owners prefer on personal basis for their pets.

**Chat Bot** - Chat bot is a communicator for businesses that keeps live chat, chat bots, messages and e-mail in one place. Chat bot will allow the user to ask questions related to pet care & supplies. After that the custom mail of confirmation will be sent to the user through chat bot.

**Web Push** - Web Push warnings are notices that can be shipped off a site guest on work area or cell phone. This is an alert type of messaging style that pops up in at the top or base corner of a computer screen, depends on the OS totally. Web push sends a notification on a user's personal desktop screen anytime they gets are connect to a net and have their web browser open and accessible.[2]

## II. RELATED WORK

We have drawn in ourselves, to get a superior and better climate for our pets or any creature in the country. We feel that pets are heartedly important for the family. We realize that pets are an adorable animal which coordinate and brings the family closer and keep them joined together. Our most extreme need has been to assist more creatures with remaining long and blissful lives with great and safe human associates. Petshopindia.com is a current model which we can take which not just intends to be India's biggest and favored internet based pet store yet in addition plans to turn into the most regarded, confided set up for pet shopping on the web.[3]

There are various worries which are based to the strength of the pet person's enthusiastic connection to their pet, the pet person admittance to affordable things, as well as elements of their family. Pet guardians express their interests that they feel into three fundamental subcategories: (1) pet-related concerns, (2) human-related concerns, and (3) family related concerns. [4]

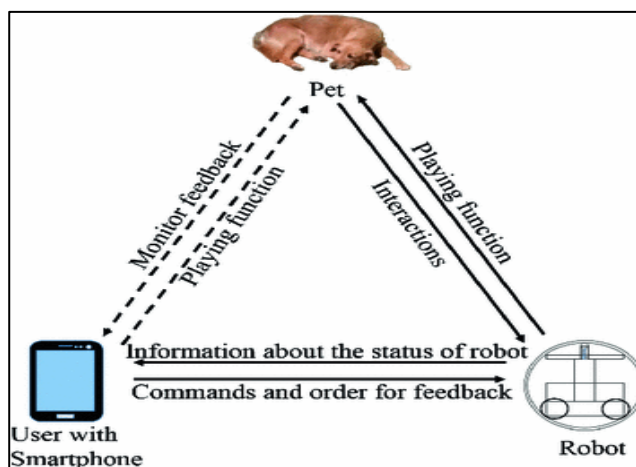


Fig 1: Overview of Tech-evolving pet industry

We are very deeply aware of the fact about the struggle and hardship animal's go through. That is what motivates people to adopt more of stray animals as their pets in India or around globe.

The idea behind having pet and taking care of them is very generic and vast in India. Therefore, the growth rate in market of the pet and their care and supplies are very high and dependent highly on urbanization. The intra structure changes depict a very positive signal and rapid movement. The customers in India comparatively spends more money on buying pets, their products and services available, and these expenses gradually gives the sense of humanity and sensitization, which is trending very well.[5]

Most experts have trusted the pet industry on its being one of the most stable industries around the globe. People these days see their pets as an extension of their family. There are high chances and opportunities for sale of pet, pet products and services industry to grow in India in nearby future. [6]

This paper study is designed with the following objectives:

- 1) To read the different opportunities growing in the pet industry.
- 2) To elaborate the use of different features behind pet Industry.

### III. PROPOSED METHODOLOGY

**Proposed System:** This proposed system's goal would be to develop a website and help people save money on pet health products by providing affordable pet supplies with excellent customer service considering the need of the visitor. The app would provide facilities of pet food, pet products depending on the categories and breed. The proposed system will avoid animals suffering from many diseases and track good health of them by providing virtual vet consultation.

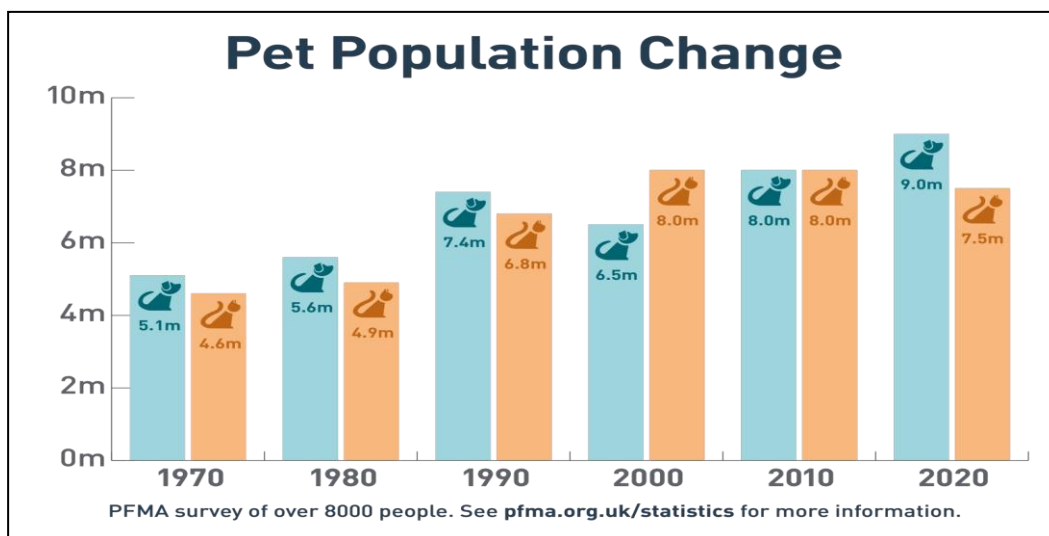
**Methodology:** It is a Database First Approach, where at first the database would be made and worked on it, after database part is over the front end part will be worked on i.e., the MySQL.

The tools used in this projects are web push, CPanel, along with Linux hosting which basically helps us to make our site live.

### IV. ANALYSIS AND INTERPRETATION

**Requirement Analysis:** Prerequisite Analysis requirement examination is a course of help client needs for application. Necessity examination includes the assignment that concludes the necessities of the product, which fundamentally consolidates complaints and prerequisites of various clients. Necessity investigation expresses that there ought to be great nature of the application. [7]

**Requirement Gathering:** There are different procedures for social affair the prerequisites aggregately; various ways are QNA, mind perplexing, and interview and client criticism. I at initially met the aide and made a rundown of the prerequisites aggregately. I examined about my venture with various individuals and got the audit and input and chipped away at it.[8]



**Fig 2: Pet Population Change**

**Requirement Specification:**

Functional Requirement: Functional requirements are those mandatory requirements for any general system. The functional requirement for this system is followed as under:

**User Login:**

Name of requirement: Login User

Description of requirement: User can input valid email and password then user successfully login.

Stockholders of User Login: Pet owner, Doctor, Admin

**User Logout:**

Name of requirement: Logout User

Description of requirement: If the user is logged out then user session details clear.

Stockholders of User Logout: Pet owner, Doctor, Admin

**User Registration:**

Name of requirement: User Registration

Description of requirement: User input valid information then user successfully registered.

Stockholders of User Registration: Pet owner, Doctor. [9]

This proposed web application is a service-based application. This system will give us services of the user’s pet care and supplies. There are different kind of users and various other characteristics on this system. So, in my opinion the application is needed on this system. Application quality is something which is to be ensured, and to ensure it testing has to be done. The customer will give some data regarding which we have to be careful. Few known testing procedures are: [10]

- a) Functional Testing
- b) Unit Testing
- c) Integration Testing
- d) System Testing
- e) Acceptance Testing

**Testing Strategy:**

The testing strategy states that the approach of project to the testing. At first, the requirement will be checked and then it will be verified, the verification will tell whether it is working correctly or not. It acts as an indicator to test that would be performed on the SDLC (Software development life cycle). [11] Moving forward with the testing step, the application must be started. At first functional testing is to be done and then following it Unit testing will be done, after that Integration testing followed with System testing and at last Acceptance testing. [12]

**Features to be tested are:**

Feature	Priority	Description
Login	2	User must be authenticated by login.
Logout	1	Session must be destroy after logout.
Registration	2	To become a member for any type of user, they need to be registered first.
Request Doctor Appointment	2	You must be registered of pet owner then you request doctor appointment.
Accept Appointment	1	Doctor must be logged in then, if doctor accept/reject then send mail for conformation message.
View Doctor Information	1	Pet owner must be login then pet owner view all doctor information.
Search Doctor Information	1	Any type user search the doctor information.
View pet owner Information	3	Doctor must be login and if any pet owner request doctor appointment then doctor view pet owner information.
Request Seat Reservation	2	Pet owner must be registered then request seat reservation.
View Pet Information	3	Doctor and pet owner view the pet information but must be login.
Add Pet Information	2	Pet owner must be registered then add pet information.
Admin Delete Information	3	Admin delete information but must be logged in.

Here, 1 = Low Priority, 2 = Medium Priority, 3 = High Priority

**Fig 3: Features to be tested**

**V. CONCLUSION**

Electronic trade can offer access to new business sectors. It can likewise make it simpler and quicker to work with existing client base. The organization will proceed to improve and foster promoting procedures to increment income, for better quality items and administrations, additionally to rival other pet stocks. Today, pets residing in families are considered as companions and as mental necessities. Pet administrations and items market has incredible development potential. Pet supplies have filled this developing interest, and deals.

The current trend of mixing pet care and pet technology gives or provides exciting upcoming future enhancements. The generated application provides the smart pet product management system. The outcome not only shows the key enhancement of the pet care industry involved in it, but also meets the requirement of pet parents. In the fast-evolving world of Artificial Intelligence, customers are highly tech oriented helpful in all phases of their lives. The global net gives different ways to get facts and has rapidly fluctuated the way we discuss. Creativity has evolved our lifestyles with more opportunities, and every material is simple for everyone. Everyone wants to linkup and expect quick solutions without much lag. We can utilize online net connecting platforms or web frequently for different reasons to connect with.

The rapid growth of pet's population in developing countries has added up significantly in the past few years. The parents are caring about the safety of pet supplies. The pet care and supplies industry apply the man to man supplies safety standards on the pet care and supplies that may be defoliating to pets because some human-aid food take can be full of toxic and harmful for pets.

The future scope of this project is that, few more functionalities would be added in this project to expand it more for future, such as payment gateway will be added, where the user after adding the items in the cart will proceed towards the payment and successfully do it. Additionally, any person can report abuse on this site, it will be made that friendly with all sort of security taking into consideration that the reports which are submitted are not fake. Furthermore, online appointment booking system module will also be added where the user can book the Vet's appointment online and can reach out to them in person.

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