

Pet Patch Application



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Section: EAR

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Introduction

An animal is in a good state of welfare if it is healthy, comfortable, well-nourished, safe, able to express innate behavior, and if it is not suffering from unpleasant states such as pain, fear, and distress.

Protecting an animal's welfare means providing for its physical and mental needs.

Ensuring animal welfare is a human responsibility that includes consideration for all aspects of animal well-being.

Pet Patch is an application that aims to help as many animals, and people, as possible by providing the opportunity to offer pets for adoption for people who are interested in adopting. Moreover, enable the user to provide assistance to homeless pets by reporting their location. In addition, the application provides a feature for app users to donate money for the shop and to buy supplies. This application combines all features that benefit pet lovers.

Problem Definition

Our decision to build and design this application was according to several problems that we observed, which are the following:

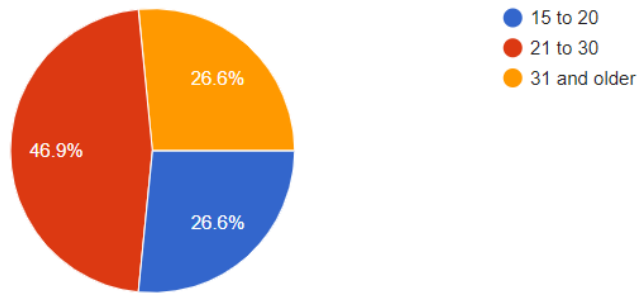
- People do not have time to look for shops for adopting pets
- People do not know where to offer their pets for adoption
- There are so many stray pets that need home and care
- People do not know how to support stores financially
- Searching for a specific pet supply can be difficult to find in most stores



Questionnaire Results

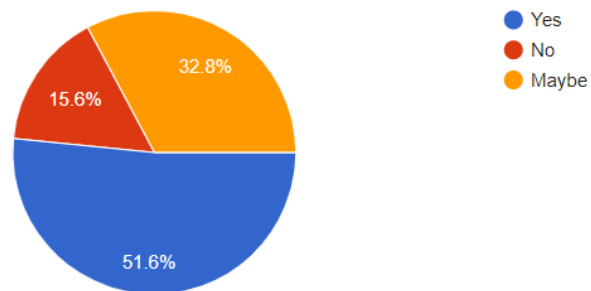
?What is your age

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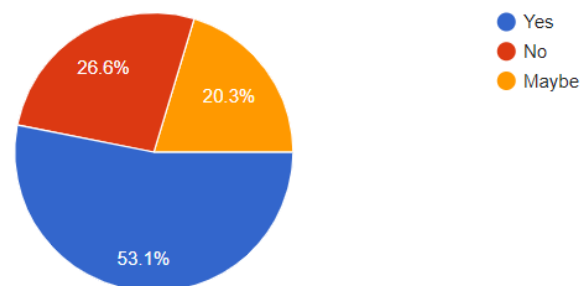
?Would you like to adopt pets via an application

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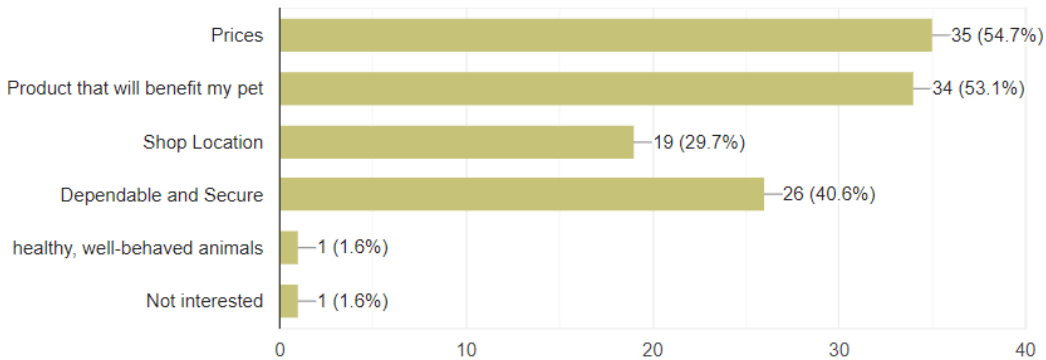
?Do you want to have the ability to offer your pet for adoption to the shop via the application

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?What is the most important factor when choosing a pet shop

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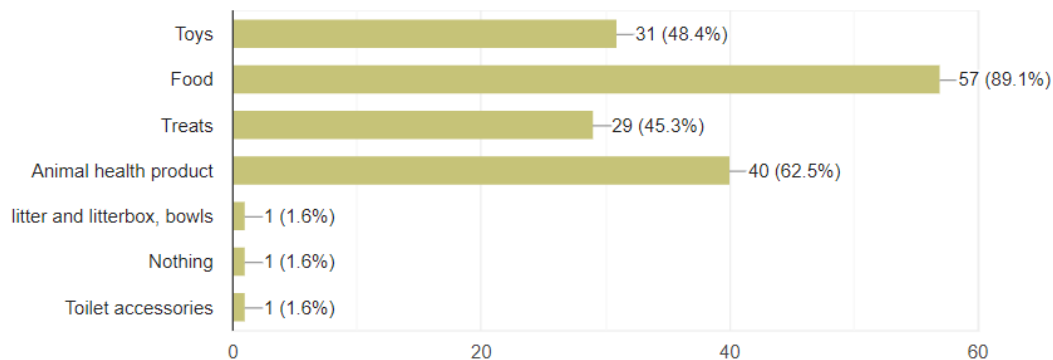
?What type of supplies would you normally buy

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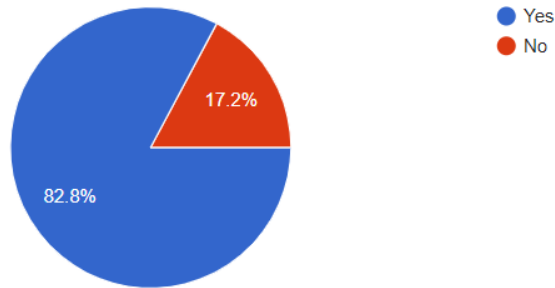
?What product would you normally buy in a pet shop

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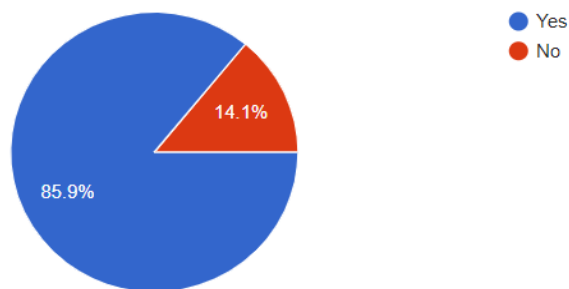
?Would you like to report stray pets location to the application to be rescued

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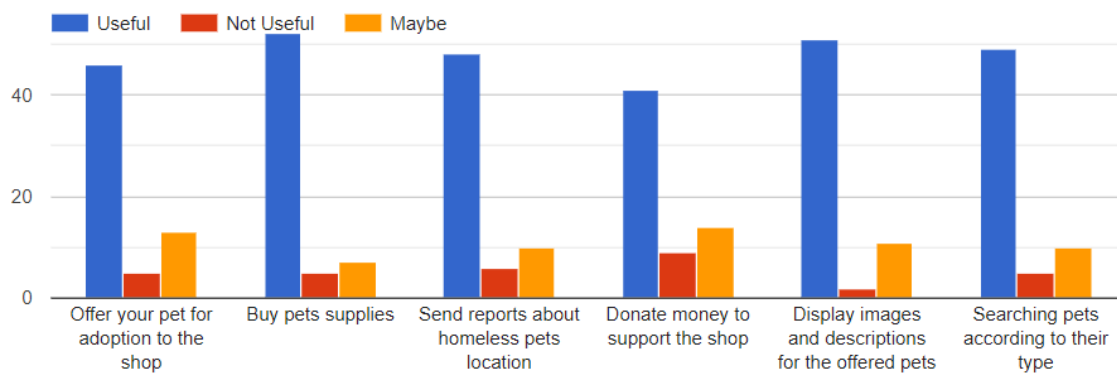


?Would you like the application to have a chat service with the staff members

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?What do you think about these features for a pet shop application



Solution

According to the results of the survey that we published and received the answer from many people, we decided to create an application for a shop that is acceptable and understandable for different ages of users.

In this application we included the most useful features for the user, which are the following:

- Offering their pets for the shop to adopt
- Sending reports about homeless pets' location
- Donating money to support the shop
- Adopting pets from the shop
- Searching pets according to their type
- Review pets' information and images
- Chatting with customer service members
- Buying pet supplies
 - Toys, Food, Treats, Animal health product, Litterboxes, Bowls, Toilet accessories, Dresses, Litterbox sand and Shower products

Requirements

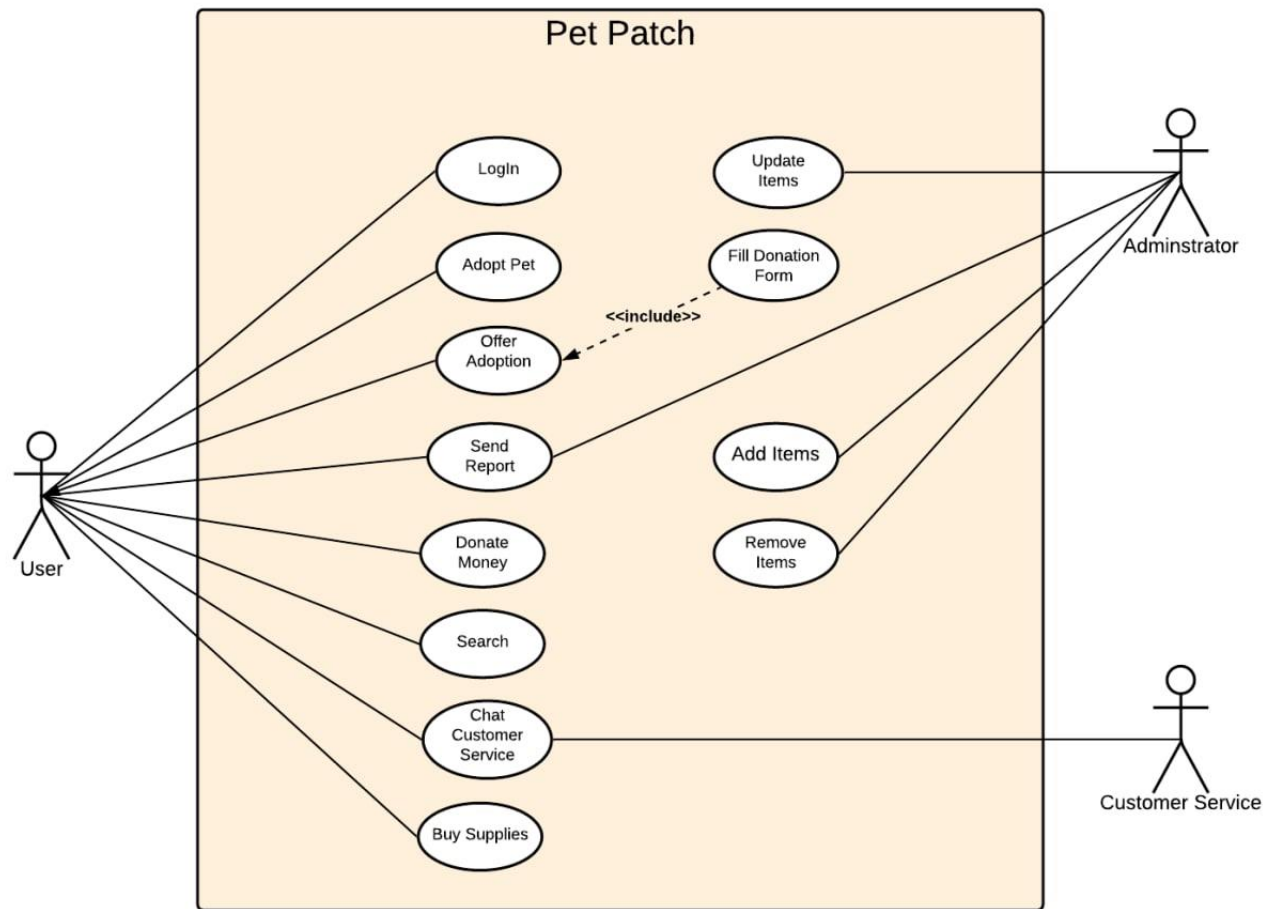
Functional Requirements

- The user shall sign up to the application to use its feature
- The user shall be able to search for pets and supplies categories
- The user shall be able to report location of stray animals
- The user shall be able to buy supplies
- The user shall be able to adopt pets
- The user shall be able to chat with the staff members
- The user shall cancel supplies order
- The system shall allow user to offer pets for adoption
- The System shall allow user to donate money

Non-Functional Requirements

- System must be always available by using multiple servers
- The system must be dependable, which includes:
 - Reliability: the system must not cause physical or economic damage of any failure
 - Security: System must protect the user private information such as payment information
 - Safety: malicious users shall not be able to access or damage the system
- System must have transaction management to insure transactions order
- Acceptability: the system must be acceptable for the type of user for which is designed. The system must be compatible with different systems and has high design quality(understandable)

Use Case Diagram



Use Case Scenario

Login:

Allow the user to access the application pages by entering username and password or to register an account, users can only benefit from application features after logging in.

Adopt Pet:

Displaying offered pets for adoption with complete information about it and giving the user the ability to choose the desired pet to adopt.

Offer Adoption:

Asking the user to fill a form in order to define all required information about the pet such as pet's name, age, sex, type, and an image, with a recent medical report attached.

Donate Money:

The user could support the shop by choosing this feature then entering the desired amount to donate with the credit card information as well.

Search:

To facilitate the user's search process for a specific pet or supplies and filter the displayed items by entering keywords that make the search easier to find the desired item.

Buy Supplies:

Displays pets supplies such as (Toys, Food, Treats, Animal health product, Litterboxes, Bowls, Toilet accessories, Dresses, Litterbox sand and Shower products) and enables the user to purchase the desired supplies and choose the delivery method either pick up from store or home delivery service.

Send Report:

Administrator responds to rescue stray pets by receiving reports from users with sharing location and optionally supported by providing a description or images.

Update Items:

The Administrator can update the description of pets offered for adoption, (such as weight or medical report), and adjust the prices of supplies in the event of any change.

Add Items:

The Administrator can add new pets for adoption or add a new pet supply for sale.

Remove Items:

An Administrator can remove a pet from the adoption list if it is no longer available or has already been adopted by another user.

Chat:

The user can receive assistance from the available shop customer service member via live chat.

Conclusion

As a conclusion, the application gathered all the necessary features that facilitate tasks related to pet owners, and while helping as many animals is the main goal, we provided the opportunity to offer pets for adoption, enable the user to provide assistance to homeless pets by reporting their location beside additional features of monetary donation and selling supplies.



“Pets are humanizing. They remind us we have an obligation and responsibility to preserve and nurture and care for all life.” **James Cromwell, American Actor**