

Project Title : Full Stack WebApp for Animal Rescue and Pet Care

SOFTWARE REQUIREMENTS SPECIFICATION DOCUMENT

VIRTUWOOF

Category: WebApp

Purpose:

The purpose of this end-to-end Full Stack Project is to create an integrated go-to place for anything domestic-animal related from the comfort of our homes without having to step outside.

Scope:

This project endeavours to create a collective online space for Pet-owners and all Animal lovers in general. It will have a range of features from helping lost pets reach their owners using location based APIs to providing for Street Animals. It will be a great addition to the lives of pet owners as the App will keep track of vet appointments and other ordeals for them. The App will have informative features such as Blog Posts, and NGO operatives nearby.

Introduction:

VirtuWoof is a user-friendly web application where welfare of animals is taken care of. It is a platform where lost, injured, abandoned or stray animals are brought together and the hooman users (or animal lovers)/ animal welfare organisations can reach out to and adopt homeless animals, volunteer to take care of them, or make donations towards like minded organisations.

Existing System:

- There's no one stop platform for animal rescue and petcare. For different services pet owners have to use different applications which is cumbersome.
- There's no organised list of nearby NGO's available which can help in animal rescue.
- There's no community application available for animal lovers
- Lack of proper organisation system for adoption of street animals.

Proposed System:

This web application will take care of a lot of needs catering to animals such as their adoption, well being and grooming. The features of our web application are listed as follows:

1) Animal rescue:

- a) Helpline numbers for abused pets
- b) Adoption of such animals by NGOs or people.
- c) Securing help for injured stray animals.
- d) Accumulating donations for Animal Welfare Organisations

2) Medical facilities:

a) First aid for injury; implementation via a chatbot.

3) Blog-post/testimonials:

Users can share their story on this platform to encourage and support NGO's and other fellow users. User can post about their lost pet, post for adoption and post for donation.

Advantages:

- Eliminates middlemen during adoption of animals.
- Allows users to connect with each other
- Allows existing pet parents to book and keep a track of vet appointments.
- Raises awareness among people about the plight of stray animals through blogs and testimonials.

Functional requirements :

Functional requirements of our system are explained below :

- Login / Signup for posting details about lost pets.
- User can share the location where pet was lost and share it's details
- Owner will get the notification if someone responds to their lost animal post
- Adoption of stray , lost or abandoned pets by NGOs or any individual
- List of Nearby veterinary hospitals ,pet shops , pet shelter home along with their address and contact
- First Aid ChatBot for quick care of injured pets.
- Date/Time alert for all appointments or important dates for pet owner
- Helpline number and details of animal rescue NGOs to help injured animals

Non Functional requirements :

Requirement that specifies criteria that can be used to judge the operation of a system are called non-functional

requirements. Non-functional requirements of our system are mentioned below:

- Secure access of data
- Better component design to get efficiency
- Modern user interface
- Data Privacy

Software Tools :

- Database server : PostgreSQL
- Client : Any web browser
- Web framework : Django
- API : Google places API/MapMyIndia API
- Backend : Django
- Frontend : HTML/CSS/Javascript

Deployment :

- Operating system server : windows 8, UNIX, linux
- Web server deployment : Heroku

Hardware specification :

- Processor : intel core i5
- RAM : 4GB
- Hard Disk : 500TB **