

# Pet Adoption App

Manan Shah<sup>1</sup>, Arsh Shaikh<sup>2</sup>, Zeib Shaikh<sup>3</sup>, Abhay Shittal<sup>4</sup>

<sup>1-4</sup>Student, Dept. of Computer Engineering, Vivekanand Education Society's Polytechnic, Mumbai, India

\*\*\*

**Abstract** –This is a research regarding the treatment of stray animals by people and how we can improve the condition. Our app can help to improve this situation. It is an online platform where people can adopt pets. Though there are animal shelters but some of them are cruel towards stray animals. This entire project would involve the development of the app using React Native, Redux and Firebase.

**Key Words:** Adoption, Animal Shelter, Mobile Application, Stray Animal, Rescue Stories

## 1. INTRODUCTION

Animal adoption in India is generally done by buying dogs/cats from pet shop or buying from the people who's pets have had babies. There are very few people who adopt stray pets. There are 76 lakhs of domestic animals entering animal shelters worldwide annually out of which 27 lakhs are euthanized. So, the number of euthanized animals can be reduced if people adopt pets instead of buying them from pet markets. The dog catchers in India behave roughly with dogs which is something we need to change. The inspiration of this project is a Android and iOS app for people to be more aware of the stray animals awaiting to get adopted around India.

### 1.1 AIM AND OBJECTIVE

The major objective of this app is to create a people friendly online platform where people come to know about various pet that require their help, so they can adopt them and take their pain away. Our app also provides a place where pet friendly people come together and share their experiences through uploading stories of how they rescued an animal.

The main of this application are as follows :-

1. To help stray animals by helping them to find a kind – hearted owner.
2. On this platform people can also upload photos of stray animals around their colony who need help and people who want to adopt can contact them.
3. People can share their rescue stories with all the users on the app

### 1.2 PROBLEM STATEMENT

The current methods used to adopt or looking for pet is inefficient and haphazard. People distributed flyers to public and spread the news to the people around the area where the pet is lost [1]. When people print out flyers, it results into waste of paper and money as it does not have any positive

outcome. People also post stories on social media platforms such as instagram, facebook. There are numerous scammers too who try to falsely claim the reward for returning the pet to their rightful owner.

To save animals from cruelty a **Prevention of Cruelty to Animals Act** was passed in 1960, however there were no strict laws in that act as animals could be used for lab experiments and entertainment[3].

Besides all this, animals on the streets are harassed by people by throwing stones just for entertainment. The numbers of stray animals have increased gradually over the years as people abandon their pets.

Though there are many kind hearted people put still a platform is required where people come to know the sufferings of stray animals.

## 2. RELATED WORKS

These problems have been identified by many researches over the years and taken action to solve them. There are numerous apps regarding pet adoption. The main problems with these apps are that they only focus on pets like dogs and cats, rest of the animals such as rabbits. There are no filters for animals and their breeds too. So in our application prototype we overcame these inefficiencies.



Fig-1 :- Growth rate of mobile phone users

There is a huge increase in the usage of mobile phones since 2013. So to cover most of the population in India we chose to build an application.

Table 1 Strengths and Weaknesses of Existing System

Name of Application	Strengths	Weaknesses
PetMate	<ul style="list-style-type: none"> <li>• Great UI</li> </ul>	<ul style="list-style-type: none"> <li>• Lot of old listing</li> </ul>

	<ul style="list-style-type: none"> <li>• Lot of listings</li> <li>• Works smoothly</li> </ul>	<ul style="list-style-type: none"> <li>• No reply from users</li> <li>• Fake users</li> </ul>
Pets Adoption	<ul style="list-style-type: none"> <li>• Basic UI</li> <li>• Allow to share to social networking sites.</li> </ul>	<ul style="list-style-type: none"> <li>• Not able to find pets nearby</li> <li>• No filters for pet like dogs/cats</li> </ul>

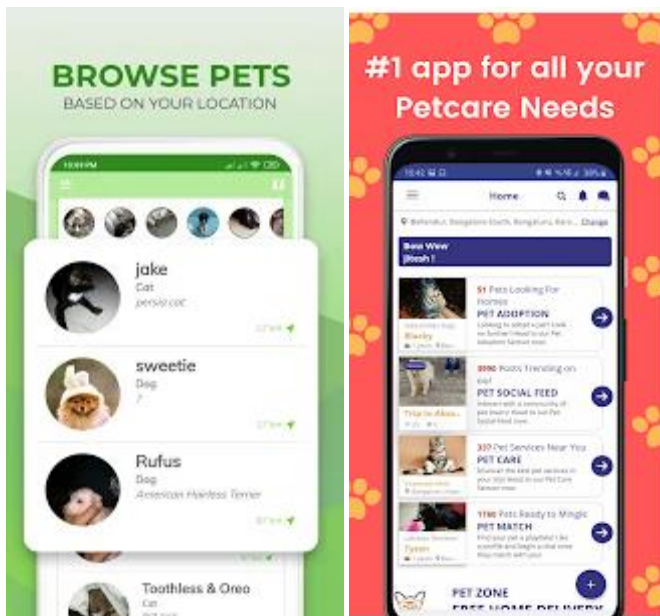


Fig -2: Screenshots of existing apps

### 3. METHODS

This project is developed using Agile Development Model. This model has focuses on iterative development. Agile methods or Agile processes generally promote a disciplined project management process that encourages frequent inspection and adaptation, a leadership philosophy that encourages teamwork, self-organization and accountability, a set of engineering best practices intended to allow for rapid delivery of high-quality software, and a business approach that aligns development with customer needs and company goals.[2]



Fig-3 :- Agile Development Model

### 4. EVALUATION

Testing's such as Unit testing, Integration testing, Load and Stress testing were performed on the prototype of our app. Some improvements regarding data management in apps and faster response rate were suggested by the testing team. These updates will be done in the next version of the app, and after Acceptance testing this app will be published on Google Play store and iOS App Store.

### 5. Future Scope

After this app will be published our team will be working on some new features for the app. These features would be as follows:-

- A built-in chatting system for people who upload the picture of pets and who want to adopt them.
- A pet food store where food for pets would be available at a reasonable price.
- A Veterinarian section where people can contact vets for any help regarding their pet's health care.

### 6. CONCLUSIONS

The prototype of our Pet Adoption Application was developed successfully. The major objectives covered by our application are as follows:-

- People will come to know about stray animals that need their help around their vicinity.
- The number of stray animals euthanized will be reduced.
- Kind hearted people will get an opportunity to do something for helpless animals.
- People will be able to share their stories of how they rescued pets and motivate others to do so.

## ACKNOWLEDGEMENT

We as a part of our final project at VESP developed and tested the app under the guidance of Prof. Pratibha Pednekar.

## REFERENCES

- [1] A research on Animal adoption by Research Gate  
“[https://www.researchgate.net/publication/312057960\\_Stray\\_Animal\\_Mobile\\_App](https://www.researchgate.net/publication/312057960_Stray_Animal_Mobile_App)”
- [2] Agile Development Process Model.[Online]. Available:  
<https://www.cprime.com/resources/what-is-agile-what-is-scrum/>
- [3] Prevention of cruelty to animals Act 1960. [Online]. Available:  
[https://en.wikipedia.org/wiki/Prevention\\_of\\_Cruelty\\_to\\_Animals\\_Act](https://en.wikipedia.org/wiki/Prevention_of_Cruelty_to_Animals_Act).