



## **PES UNIVERSITY**

(Established under Karnataka Act No. 16 of 2013)  
100-ft Ring Road, Bengaluru – 560 085, Karnataka, India

*6<sup>th</sup> Semester Project Report on*

## **PET LOOKOUT**

*Submitted by*

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**Jan – May 2020**

**under the guidance of**

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**FACULTY OF ENGINEERING  
DEPARTMENT OF COMPUTER APPLICATIONS  
PROGRAM – MASTER OF COMPUTER APPLICATIONS**



**FACULTY OF ENGINEERING  
DEPARTMENT OF COMPUTER APPLICATIONS  
PROGRAM – MASTER OF COMPUTER APPLICATIONS**

**CERTIFICATE**

*This is to certify that the project entitled*

**Pet Lookout**

*is a bonafide work carried out by*

**TRIPATHI SATISH DINESH– PES1201801831**

in partial fulfillment for the completion of 6<sup>th</sup> semester project work in the Program of Study MCA with specialization in Data Science under rules and regulations of PES University, Bengaluru during the period Jan. 2020 – May 2020. The project report has been approved as it satisfies the 6<sup>th</sup> semester academic requirements in respect of project work.

*Signature with date*

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Examiner 3:

## **DECLARATION**

I, **TRIPATHI SATISH DINESH**, hereby declare that the project entitled, ***PET LOOKOUT***, is an original work done by me under the guidance of **Dr. A LEKHA**, Associate Professor, Department of Computer Applications, PES University and is being submitted in partial fulfillment of the requirements for completion of 6<sup>th</sup> Semester course work in the Program of Study **MCA**. All corrections/suggestions indicated for internal assessment have been incorporated in the report. The plagiarism check has been done for the report and is below the given threshold.

**PLACE:**

**DATE:**

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I also thank all the members of teaching staff for their help and suggestions. My acknowledgement will be incomplete if I do not thank my friends for being helpful and supportive.

Finally, I thank my, PARENTS for their blessings showered on me, at all times and in all circumstances.

I have worked hard to the best of my abilities and tried not to make any mistakes. If any are found, they are unintended.

# **ABSTRACT**

Pet Lookout is a web-based application that has following abilities:

- For catering to clients who have pets such as dogs and cats.
- To help pet lovers to register themselves as pet sitters, walkers and trainers and get hired for the same by creating their profile.
- The application also provides car service booking for dogs helping owners to travel hassle free with them.
- For other pet related services such as access to pet care tips through the posts made by the pet lovers and order varieties of cakes for both dogs and cats.
- To apply for BBMP pet license without going out and reaching out to agents

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# INTRODUCTION

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## 1. INTRODUCTION

"Pet sitting" is characterized as "the sole demonstration of dealing with a pet in its own home when the owner is absent there. Walking too is a type of pet sitting since it includes going to the pet's home to give exercise, care and friendship. With the expansion in number of pet owners it becomes very important to have a dedicated website which thrives upon providing all the necessary requirements in need.

### 1.1. PROJECT DESCRIPTION

#### 1.1.1. Problem Definition

Leaving pets alone at home at times can lead to a worrisome situation in which both the pet owner or the pet parent and the pet can feel very stressed. So, in these times it is always better to have someone look after the pet in the absence of the owner. With the increase in number of pet owners it becomes very important to have a dedicated website which thrives upon providing all the necessary requirements in need.

#### 1.1.2. Proposed Solution

This is where Pet Lookout can turn out to very helpful to the pet parent and also for pet lover who can follow their passion for pets and can easily make some money out of it. To avoid such uneven circumstances of leaving pets alone and lack of pet related services one can lookout for a website which provides all the facilities and people who can be trusted and will provide utmost care to the pets so that their schedule and activities are not disturbed. The website provides the comfort of creation of your own profile through which any pet loving person can become a pet loving professional. The website is only dedicated for pets such as dogs and cats where pet parents can search for trusted people to look after their pets and also get access to the services provided on the website such as pet cab booking and ordering of cakes

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**1.1.3 Purpose**

The main purpose of the system is that it provides pet owners to view a detailed view of the profile and posts, posted by the pet lovers and pet lovers too can do the same. The website also provides services such as pet car booking, where user, who can be a pet lover or pet parent can book a car service to travel alongside with their pet. Users will also be able to apply for BBMP license by entering all the details and uploading a record of their pet's vaccinations and their address proof

**1.1.4 Scope**

The application requires a person (admin) who can manage the users and other related aspects such as the license status, pet cab booking status and update the products and the order status of the users. The scope of the application is to use it for pet related services purpose only which can be used by anyone who loves pets or has a pet. The other aspect of the system is that it provides secure access to the system. Hence, the data remains secure and there is no data loss too.

# LITERATURE SURVEY

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## 2. LITERATURE SURVEY

### 2.1. BACKGROUND STUDY

Pet ownership is rapidly increasing , industry estimates have obviously indicated that in present approximately 19 million pets are domesticated in India (around 80 per cent among them are dogs, at that point followed by cats and then many other smaller animals like birds and fish), and on a normal nearly , 6,00,000 pets are embraced each year. Numerous types of pet services are available which offer pet sitting too as a service, but the people registered there are their own people and it primarily consist of the team of people which primarily belongs to the service provider. There are certain websites such as great au pair.com and quickr.com where people have been posting for pet sitting but it is not a dedicated site for pets only. Some of the currently running websites which have been providing pet sitting and many services have been discussed in the existing system.

#### Existing System

Some of the related websites that have been researched to make the newer development much easier and useful . Some applications are found much related to the current development. But with some extra functionalities to outperform the existing system. They are enlisted below.

**Waggle:** Waggle is an online community of genuine dog lovers who will board the pet when the owner travels or not around with the pet for long duration of time. Enjoys vacation without the stress of leaving their pet in a kennel or alone. With Waggle, their pet too, will look forward to a vacation. Waggle only provides house sitting as a service where one can leave their pet at the pet lover's residency. It does not provide the luxury of someone coming to the pet's house and looking after them.

**Petboro:** Petboro conveys facilities like off-leash dog parks, dog boarding , pet pickup and drop, pet trainings, pet daycare and numerous other pet related administrations. The user has to call and make an appointment for booking a car service, trainers and everything present on the website is contact based ,where one has to call and book for the services being offered and without having any prior knowledge about the service provider. The people working there cannot work individually and have to follow certain rules set up by the owner.

**Anvisinc:** Anvisinc is a Bengaluru based startup which provides pet sitters at the pet parents' house by making an inquiry through their website. The pet sitters provided by them are their own trained people and they don't have their profile on the website for the pet parents to have a detail idea about them before hiring them. The login and registration functionality of the website is still under construction making it an incomplete work.

**Bark n' Treat Canine Bakery:** Bark n' Treat Canine Bakery is a startup passionate about providing healthy exclusive dog treats. Here users can order for cakes but only by sharing the details of their orders by WhatsApp or by calling them personally. No booking of cakes option is provided on the website.



## **2.2 FEASIBILITY STUDY**

Feasibility study is the analyzing if the proposed project is technically, operationally and economically feasible.

### **2.2.1 Operational Feasibility**

The person with bare minimum knowledge of using a website can comfortably use the application, the application will work with internet. The application is developed much user-friendly way. It is operationally feasible because of its simple functionalities.

### **2.2.2 Technical Feasibility**

Technical resources include tools which are used in this application are universally accepted. This application can run online in any web browser which is up to date. The technology that is used for implementation is freely available. However, the user does not require any software. the user of the application requires just a browser. The user is abstracted from the development view. Hence the application is technically feasible.

### **2.2.3. Economic Feasibility**

The application may involve development cost and deployment cost. The application is developed with opens source tools, hence there is no cost involved in purchasing/licensing the software. Hence no hardware cost is incurred for deployment. The people who use the application require basic computer operating skill. Hence there is no cost involved for training the end users.

## **2.3. ABOUT TOOLS AND TECHNOLOGIES**

### **2.3.1 Python**

Python is a clarified, significant level, broadly useful programming language. It is very much powerful in supporting many ultra-features that is very easily executed with different frameworks like Django. Python along with Django provide the comfort of web development with just few lines of codes.

### **2.3.2 Django**

“Django” is a python based significant level web framework which is highly used for developing web-based applications for web development and clean, pragmatic design. With Django model forms, license application can be easily executed and it's easy to learn. .It is open source and also simplifies the Django ORM which provides an elegant and powerful way to interact with the database.

### **2.3.3 MongoDB**

MongoDB is a cross-platform document-oriented database program. Classified as a NoSQL database program, in addition MongoDB uses JSON-like (BSON) documents with schema.

Some of the main features of MongoDB are:

- Ad-hoc queries
- Indexing
- Replication
- Load balancing
- File Storage
- Aggregation
- Server-side JavaScript execution
- Capped collections

- Transactions

### **2.3.4 Bootstrap 4**

Bootstrap is the open source framework which is used for web page and web application front end development. It consist of HTML and CSS designs templates. This template can be accessed by using class selectors. Using bootstrap it's is easier to design and format a web page or web application. It makes web development faster and easier. It uses HTML, CSS and optional JS extensions.

### **2.3.5 PyCharm Community Edition 2019.3.1**

For composing straightforward and productive Python codes, an Integrated Development Environment (IDE) is required. PyCharm as an IDE for creating Python-based applications can be utilized. PyCharm effectively runs on Windows, Linux, or Mac OS. Moreover, it contains modules and bundles that assist software engineers with creating programming utilizing Python in less time and with negligible exertion.

### **2.3.6 MongoDB 4.2.2 Compass Community**

MongoDB Compass is the GUI for MongoDB. Compass permits to analyze and comprehend the contents of the data. It additionally permits to connect to the MongoDB Database to run queries, check queries execution plans, manage indexes, and create, drop/create collections and databases.

### **2.3.7 HTML**

It is a mark-up language used in the design of webpages. It uses tags such as<html>, <head>, <body>, <img>, <input> etc... These tags are used by the browsers to decipher the substance of the page. Projects sent in scripting dialects, for example, JavaScript can be inserted in HTML.

### **2.3.8 CSS**

CSS stands for Cascading Style Sheets is a style sheet language which is used to define the look and layout of the content of the webpage. CSS has selectors which helps us to create custom styles for elements. We can use inline CSS or external CSS. Inline CSS is the styles applied in the HTML file itself using `<style>` tag. External CSS is that where we write the CSS in a different document with extension.css. This document will be referenced in the HTML record inside `<head>`.

# HARDWARE AND SOFTWARE REQUIREMENTS

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### 3. HARDWARE AND SOFTWARE REQUIREMENTS

#### 3.1. HARDWARE REQUIREMENTS

Table 3.1 Hardware Requirements

Hardware	Specification
Processor	2.6 GHz 6 -Core i7
RAM	8GB
Hard Disk	500GB
Keyboard and Mouse	Standard PS/2 Keyboard and Mouse

#### 3.2. SOFTWARE REQUIREMENTS

Table 3.2 Software Requirements

Software	Specification
Frontend	HTML5, CSS3, Bootstrap 4
Language	Python 3.8
Database	MongoDB 4.2.2
Framework	Django 2.2.9
IDE	PyCharm Community Edition 2019.3.1
Database GUI	MongoDB 4.2.2 Compass Community

# SOFTWARE REQUIREMENTS SPECIFICATION

## **4. SOFTWARE REQUIREMENTS SPECIFICATION**

### **4.1. USERS**

This application has specific roles for various users. The users are categorized into.

#### **4.1.1 Admin**

The admin in the web app is a superuser who could delete user profiles, update it. Admin can also assign other users as staff users if required. Admin can see all the bookings made by the users and also he will be receiving all the details filled in by users for License application, he can give the status about the booking and application. Admin also has the ability to add products such as cakes for dogs and cat ,he will go through all the orders made by the users and the users will be able to track the order after ordering and details will be provided by the admin.

#### **4.1.2 User**

The user here mainly consist of someone who has a pet or someone who loves pets , so once the user logs in, he can turn himself into a pet lover just by updating his profile which is automatically created after the user registers, if he/she doesn't wishes to be a pet lover , they can just leave updating their profile and continue to use the website for other purposes. Like ordering cakes, applying for BBMP pet license, pet car booking and view the posts posted by other users who are pet lovers and view their profiles so that if in near future they want someone to look after their pets in their absence or train their pet , they can contact them from the information available on the website.



## 4.2. FUNCTIONAL REQUIREMENTS

Pet Lookout application is a complete package of available services to ease out the stress of pet owners. System requirements specification is an organized collection of data incorporating of all the system requirements. It specifies all of the major functional and non-functional accepts of the system.

**Register and Login:** The user has to go through the registration process by providing valid username and password. Admin being superuser does not have to go through registration.

**Update Profile as Pet Lover:** User can create their profile and describe about themselves how they will look after the pets also about their experiences with pets.

**Pet Lover Posts:** Pet Lover will have to post about themselves with a picture of them with a pet .

**Update/Delete Posts:** Pet Lovers who have posted can update and delete the posts posted by them.

**View profiles through post:** User(Pet Parent) can view the profiles of Pet Lover through their posts.

**Apply for License:** User can apply for license by entering all the mandatory details and uploading a file of their address proof and vaccination record of pet.

**View License Details:** User once when applied for the BBMP pet license can view the details provided by the user and the status of application has to be updated by the user.

**Pet Cab Booking:** User can also book Pet Cab to travel from one place to another by mentioning the time and date.

**View Bookings and Cancel:** User can view their bookings and cancel it and Admin has to update the status of the booking.

**Order Cakes for Pets:** User can order cakes and other items available on the websites by going through categories relating to dogs and cats.

**Add Products to Cart:** User will be provided with a cart where he/she can add the items and remove the item.

**Place Order:** User once done with the addition of items into the cart can place the order by going to the checkout page and entering all the details like address, name, phone, zip and email.

**Track Order:** User can track their order after placing their order and can easily track the order by entering order id given after successful placement of the order and also by entering mail id provided during the checkout.

**User Management:** Admin can manage users and delete their profile if found not upto the mark of a pet guardian profile.

**View bookings/applications/orders:** Admin can also view the bookings made by the users for services like pet cab, license, food items.

**Update/Add Products:** Admin adds , delete and updates products details as required.

**Update Status:** Admin has to update the status of the order of the products made by the users, also update the status about the license application and pet cab service

### 4.3. NON-FUNCTIONAL REQUIREMENTS

- **AVAILABILITY:**

Since the application is made as a web application, the web is open 24x7. The application can be handily gotten to whenever and anyplace with the assistance of a program.

- **SECURITY:**

Only authorized users with credentials can login to the application and are able to access the content. This provides security to the application as unauthorized users will not be able to login in any condition.

- **USABILITY:**

The users of the application will have the option to utilize it in one go as the application was worked in light of effortlessness. The users won't require any sort of instructional exercises or rules to utilize the application.

- **PERFORMANCE:**

The application was built with performance and execution as one of the key viewpoints during development, so thus the application retrieves and displays all the content within a few seconds.

- **RELIABILITY:**

The application ought to be reliable to perform the business, i.e. whenever the user performs some important functions it should be acknowledged with some confirmation.

# SYSTEM DESIGN

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## 5. SYSTEM DESIGN

### 5.1. DATA FLOW DIAGRAM LEVEL 0

A data-flow diagram (DFD) is a way of representing the flow of data or a process. DFD additionally presents information about the input sources and output sources of each entity and the process itself.

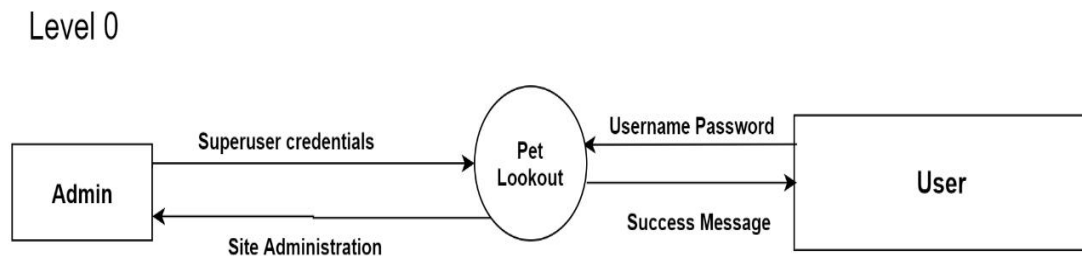


Fig 5.1. Data Flow Diagram Level 0

In figure 5.1 Admin and User are the users of the Pet Lookout application. All the users login with the username and password and Admin logs in through the superuser credentials and greatly interacts with the system.

## 5.2. DATA FLOW DIAGRAM LEVEL 1

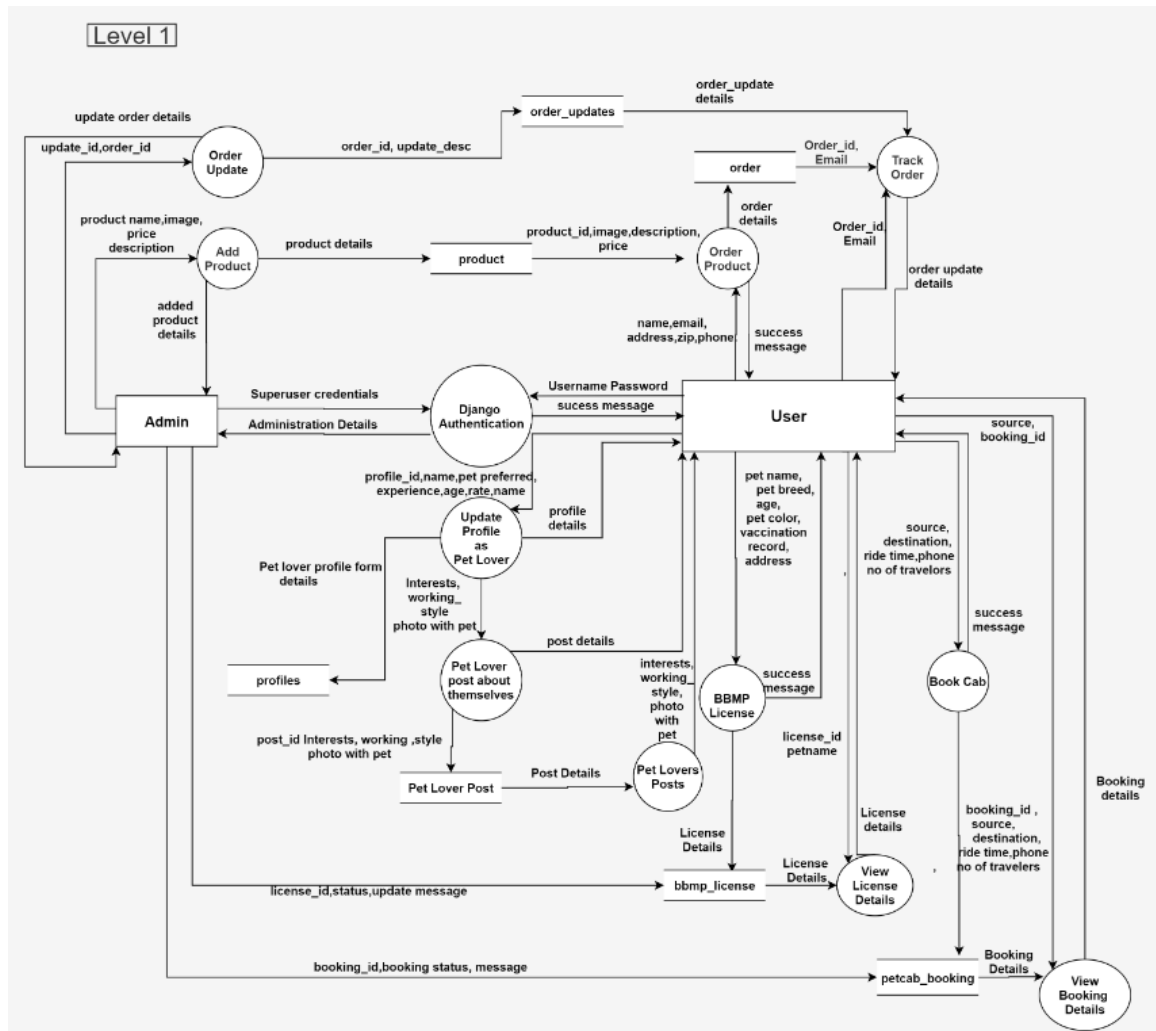


Fig 5.2. Data Flow Diagram Level 1

The above figure 5.2 describes the level 1 data flow of Pet Lookout. It mainly includes the processes which are update profile as pet lover, pet lover post about themselves, view pet lover's profile, apply for BBMP license, book cab, view booking details, add products, view products, order product and track order.

Admin adds product by entering all the details which includes product name ,price ,description and image of the product and these details are inserted into the product collection from and when the user request to view he products it fetches all the details about the products.

Admin updates the status of the order by updating the message which gets inserted into the order updates collection.

User tracks the order by entering the order id and email entered while placing the order. User will update profile by entering all the profile details such as name , pet preferred, age, experience, rate and describe yourself and all the information is inserted into profiles collection and from there when user request to view the profiles of other pet lovers all the details is presented.

Pet Lovers also posts about themselves by entering working style, interests and uploading a picture with a pet and all these details gets inserted into the pet lovers post collection.

For BBMP license User will enter the pet name, age, color, breed and upload vaccination record and address proof which will get inserted into the bbmp\_license collection and when the user request to view the details it fetches all the information and also the status of the application update by the Admin.

User books a pet cab by entering all the details such as source, destination ,ride time, ride date, phone and number of travelers in the booking form which gets inserted into the petcab\_booking collection and when the user request to view the status it fetches all the details about the booking status along with the message and status update by the Admin.

# DETAILED DESIGN



## 6. DETAILED DESIGN

### 6.1. USE CASE DIAGRAM

Use case diagram helps in specifying, organizing and identifying the requirements of the system. It is mainly used to identify the interaction between the different objects of the system. Interaction may be between the modules or user and module.

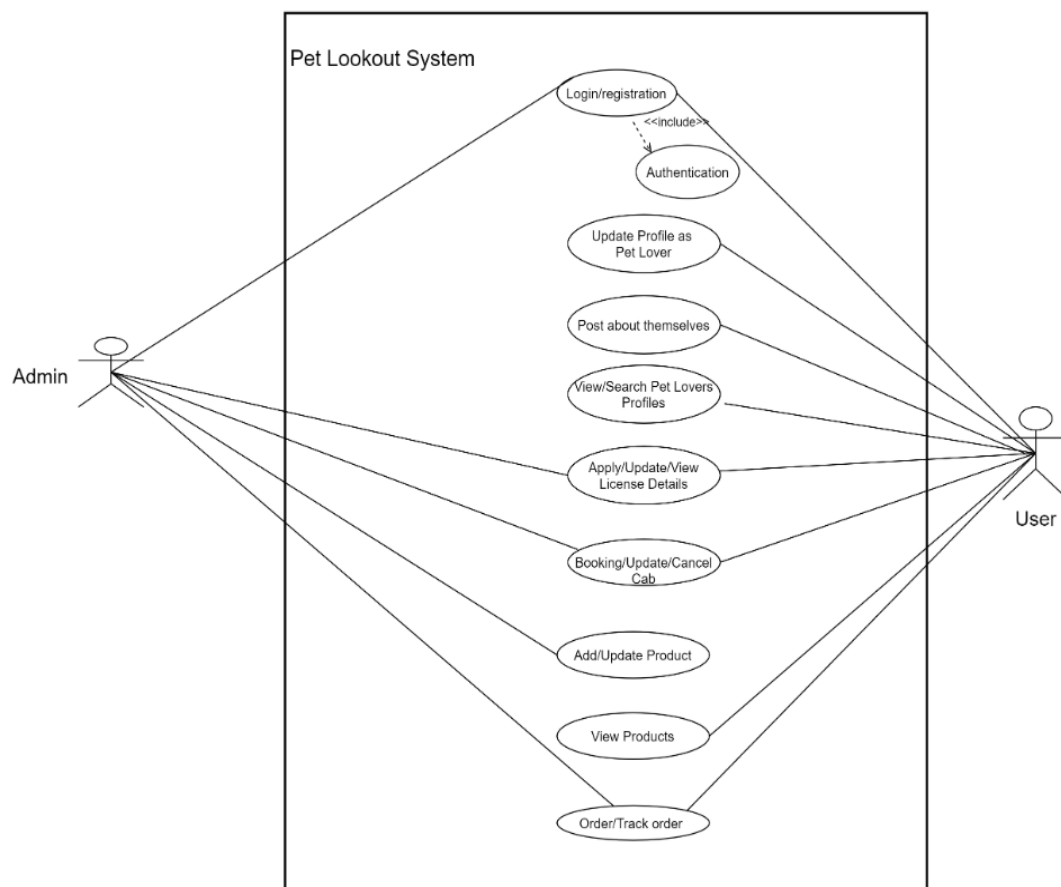


Fig 6.1. Use Case Diagram

The figure 6.1 explains the detailed process flow of Pet Lookout between the Admin and User. Admin and User are the two actors. Admin maintains all users. Admin updates the status of the bookings requested by the user such as for pet cab ,license and order of food items. Admin also adds the new products and updates it. Users can

update their profile , create posts , view posts of theirs and others ,view profiles of pet lovers ,search for different pet lovers, book cab for pets ,apply for license and keep track of the updates of pet cab and license. User can also order for the products and track their orders

## 6.2. ADMIN ACTIVITY DIAGRAM

Activity diagrams are graphical portrayals of work processes of stepwise exercises and activities with help for decision, cycle and simultaneousness.

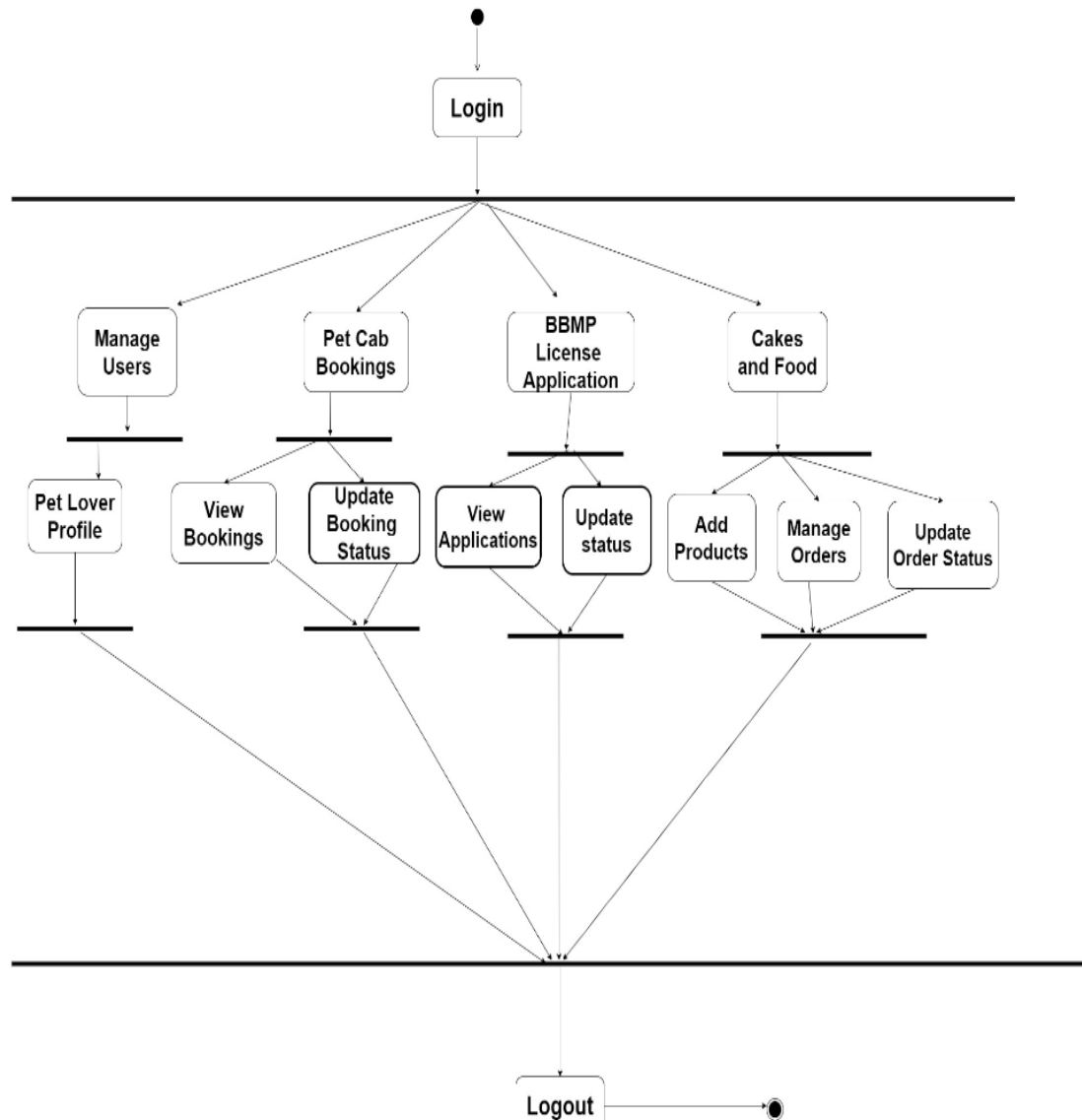


Figure 6.2 Admin Activity Diagram

The figure 6.2 explains the activity carried out by Admin. Admin manages all the registered users, pet cab bookings of the users, license applications of all the users and add products, manage orders of the users.

### 6.3 USER ACTIVITY DIAGRAM



Figure 6.3 User Activity Diagram

The figure 6.3 explains the activity carried out by User. Each user has their own profile but he/she can update it and become a pet lover. Once profile is updates user can post about themselves. They can also view the posts and profiles of others just like other normal users. User can also book pet cab and view the update of the booking, apply for license and view the status of it too. User also browses through the food products and can make a purchase and keep track of it later.

## 6.4 DOCUMENT STRUCTURE

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      "type_code": "string"
    },
    "name": {
      "type_code": "string"
    },
    "no_of_travellers": {
      "type_code": "int32"
    },
    "pet_owner_id": {
      "type_code": "int32"
    },
    "phone_no": {
      "type_code": "string"
    },
    "ride_date": {
      "type_code": "date"
    },
    "source": {
      "type_code": "string"
    },
    "status": {
      "type_code": "string"
    }
  }
}

"name": "shop_orders",
"auto": {
  "field_names": ["order_id"],
  "seq": {
    "$numberInt": "2"
  }
},
"fields": {
  "address": {
    "type_code": "string"
  },
  "amount": {
    "type_code": "int32"
  },
  "city": {
    "type_code": "string"
  },
  "email": {
    "type_code": "string"
  },
  "items_json": {
    "type_code": "string"
  },
  "name": {
    "type_code": "string"
  },
  "order_id": {
    "type_code": "int32"
  },
  "phone": {
    "type_code": "string"
  },
  "state": {
    "type_code": "string"
  },
  "zip_code": {
    "type_code": "string"
  }
}

"name": "shop_orderupdate",
"auto": {
  "field_names": ["update_id"],
  "fields": {
    "order_id": {
      "type_code": "int32"
    },
    "timestamp": {
      "type_code": "date"
    },
    "update_desc": {
      "type_code": "string"
    },
    "update_id": {
      "type_code": "int32"
    }
  }
}

"name": "shop_product",
"auto": {
  "field_names": ["id"],
  "seq": {
    "$numberInt": "3"
  }
},
"fields": {
  "category": {
    "type_code": "string"
  },
  "desc": {
    "type_code": "string"
  },
  "id": {
    "type_code": "int32"
  },
  "image": {
    "type_code": "string"
  },
  "price": {
    "type_code": "int32"
  },
  "product_name": {
    "type_code": "string"
  },
  "pub_date": {
    "type_code": "date"
  },
  "subcategory": {
    "type_code": "string"
  }
}

"name": "bbmp_license",
"auto": {
  "field_names": ["id", "id"],
  "fields": {
    "address": {
      "type_code": "string"
    },
    "address_proof": {
      "type_code": "string"
    },
    "application_preference": {
      "type_code": "string"
    },
    "first_name": {
      "type_code": "string"
    },
    "id": {
      "type_code": "int32"
    },
    "last_name": {
      "type_code": "string"
    },
    "pet_age": {
      "type_code": "number"
    },
    "pet_name": {
      "type_code": "string"
    },
    "user_id": {
      "type_code": "int32"
    },
    "vaccination_record": {
      "type_code": "string"
    },
    "message": {
      "type_code": "string"
    },
    "old_license": {
      "type_code": "string"
    },
    "pet_breed": {
      "type_code": "string"
    }
  }
}

"pet_colour": {
  "type_code": "string"
},
"vaccination_record": {
  "type_code": "string"
},
"message": {
  "type_code": "string"
},
"old_license": {
  "type_code": "string"
},
"pet_breed": {
  "type_code": "string"
},
"pet_colour": {
  "type_code": "string"
},
"pet_gender": {
  "type_code": "string"
},
"pet_type": {
  "type_code": "string"
},
"phone": {
  "type_code": "string"
},
"status": {
  "type_code": "string"
}

```

Figure 6.4 Document Structure

In the Fig 6.4 auth\_user, pet\_lover, post\_petlover, petcab\_petcab , bbmp\_license, shop\_product, shop\_order and shop\_orderupdate are the collections used for both inserting and fetching data.

# IMPLEMENTATION



## 7. IMPLEMENTATION

Implementation describes how the concept of the proposed system is converted into an executable working system. The implementation process refers to the design phase for building the system efficiently. The system implements all the requirements that are included in the design.

### 7.1. SOURCE CODE

#### User registration:

```
Class userregisterForm(usercreationForm):
    email = forms.EmailField()

Class Meta:
    model = User
    fields = ['username', 'email', 'password1',
'password2']

class userUpdateForm(forms.modelform):
    email=forms.EmailField()

classMeta:
    model = User
    fields = ['username', 'email']
```

#### Views for Registration and Login:

```
def register(request):
    if request.method=='post':
        form = UserRegisterForm(request.post)
        if form.is__valid():
            form.save()
            username =
form.cleaned_data.get('username')
            messages.success(request, "Your account
```

```
is created! You are can log in.")
        return redirect('login')
    else:
        form=UserregisterForm()
        return render(request, 'users/register.html',
            {'form':
            form})
```

**Pet Lover's profile Form:**

```
classprofileUpdateForm(forms.ModelForm):
    classMeta:
        model=Profile

        fields=['image','first_name','last_name','address'
        , 'age','zip_code',

        'phone','describe_yourself','experience','hourly_rat
        e','overnight

_rate','dog_firstaid_and_or_CPR','member_of_any_organisat
ion','organisation_name','job_type','gender','pet_prefere
nce',

        'date_posted','your_photos_with_pets']
```

**View for Pet Lover profile update:**

```
@login_required
def petloverprofile(request):
    if request.method=='POST':
        u_form =userupdateForm(request.post,
```

```
instance=request.user)
    p_form= ProfileUpdateform(request.post,
                               request.FILES,
instance=request.user.profile)
        if u_form.is_valid() and p_form.is_valid():
            u_form.save()
            p_form.save()
            messages.success (request, "Your pet
lover profile has been updated!")
            return redirect('users/profile')
        else:
u_form =      userupdateForm(instance=request.user)
p_form  =
Profileupdateform(instance=request.user.profile)

context={
    'u_form':u_form,
    'p_form':p_form
}
return render(request, 'users/profile.html', context)

Pet Lover's Post Views :
@login_required
def home(request):
    context={
        'posts':PetPost.objects.all()
    }
    return render(request, 'petpost/home.html', context)
```

```
@method_decorator(login_required, name="dispatch")
class PetPostCreateView(LoginRequiredMixin,
                        CreateView):
    model = PetPost
    fields = ["interests", "working_style",

"photo_with_pets"]

class PetPostlistview(ListView):
    model = PetPost
    template_name = 'petpost/home.html'
    context_object_name = 'posts'
    ordering = ['-date_posted']
    paginate_by = 3

class PetPostupdateview(UpdateView):
    model = PetPost
    fields = ["interests", "working_style",
"photo_with_pets"]
```

**Pet Cab Booking Form:**

```
from petcab.models import Petcab
from bootstrap_datepicker_plus import DatePickerInput
class DateInput(forms.DateInput):
    input_type = 'date'
class TimeInput(forms.TimeInput):
    input_type = 'time'
class PetcabForm(forms.ModelForm):
```

```
class Meta:

    model = Petcab
    fields = ['name', 'source',
              'destination', 'depart_at', 'ride_date', 'no_of_travellers',
              'phone_no']
    widgets = {'ride_date': DateInput(),
               'depart_at': TimeInput(),
               }
```

**Views for Pet Cab Booking and Cancel:**

```
def booking(request):
    context = {
        'petcabs': Petcab.objects.all(),
    }
    return render(request, 'petcab/booking.html',
                  context)

class PetcabCreateView(SuccessMessageMixin, CreateView):
    model = Petcab
    form_class = Petcabform
    success_url = '/'

    def form_valid(self, form):
        form.instance.pet_owner = self.request.user
        return super().form_valid(form)
```

```
def get_success_message(self, cleaned_data):
    print(cleaned_data)
    return "Your pet car has been booked!"

@method_decorator(login_required, name="dispatch")
class PetcabDeleteView(deleteView):
    model = Petcab
    success_url = '/'

    def test_func(self):
        petcab = self.get_object()
        if self.request.user == petcab.pet_owner:
            return True
        return False
```

**Booking Status:**

```
@method_decorator(login_required, name="dispatch")
class PetcabDetailView(detailview):
    model = Petcab

    def test_func(self):
        petcab = self.get_object()
        if self.request.user == petcab.pet_owner:
            return True
        return False
```

**Views for Shop:**

```
@login_required()
def index(request):
```

```
allProds=[]

catprods = Product.objects.values('category', 'id')
cats = {item['category'] for item in catprods}
for cat in cats:
    prod = Product.objects.filter(category=cat)
    n = len(prod)
    nSlides = n // 4 + ceil((n / 4) - (n // 4))

allProds.append([prod, range(1, nSlides), nSlides])
params={'allProds':allProds}
return render(request,'shop/index.html',
params)

def searchMatch(query,item):
    if query in item.desc.lower() or query in
item.product_name.lower() or query in
item.category.lower():
        return True
    else:
        return False

def search(request):
    query =request.GET.get('search')
    allProds=[]

    catprods = Product.objects.values('category', 'id')

    cats = {item['category'] for item in catprods}
```

```
for cat in cats:
    prodtemp=
    Product.objects.filter(category=cat)
    prod = [item for item in prodtemp if
searchMatch(query,item)]
    n = len(prod)
    nSlides = n // 4 + ceil((n / 4) - (n // 4))
    if len(prod) != 0:
        allProds.append([prod, range(1,
nSlides), nSlides])
    params = {'allProds': allProds, "msg": ""}
    if len(allProds) == 0 or len(query)<4:
        params = {'msg': "Please make sure to
enter relevant search query"}
    return render(request, 'shop/search.html',
params)

def aboutshop(request):
    return render(request, 'shop/aboutshop.html')
def productView(request, myid):
product = Product.objects.filter(id=myid)
return render(request, 'shop/prodView.html',
{'product':product[0]})
```

**Track Order:**

```
def tracker(request):

if request.method=="POST":
    orderId = request.POST.get('orderId', '')
```



---

```

        email = request.POST.get('email', '')

    try:
        order=
Orders.objects.filter(order_id=orderId,

        email=email)
        if len(order)>0:
            update =
OrderUpdate.objects.filter(order_id=orderId)
            updates =[]
            for item in update:
                updates.append({'text': item.update_desc, 'time':
item.timestamp})
            response = json.dumps({"status":"success",
"updates": updates,"itemsJson":
order[0].items_json},default=str)
            return HttpResponse(response)
        else:
            return
HttpResponse({'{"status":"noitem"}'})
    except Exception as e:
        return
HttpResponse({'{"status":"error"}'})
    return render(request, 'shop/tracker.html')

```

**License views:**

```

class
LicenseCreateView(SuccessMessageMixin,CreateView):

```

```
model=License

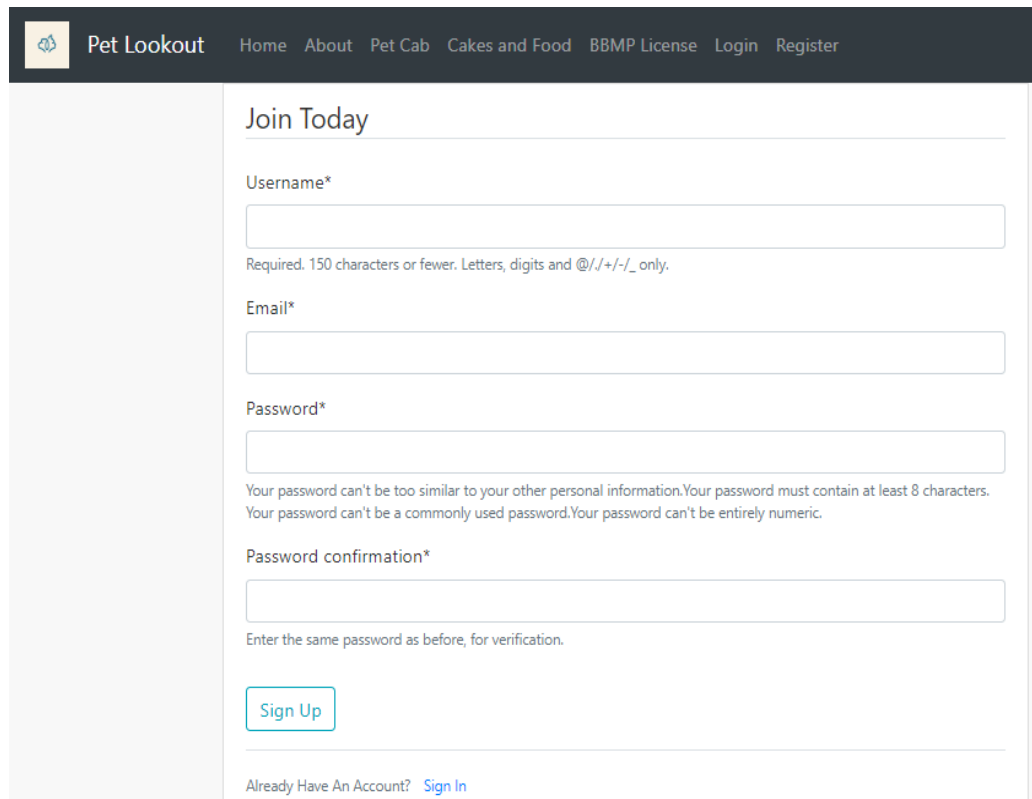
fields =
    ['first_name','last_name','pet_name','pet_colour','p
    et_breed','pet_age','

address',
'pet_gender','pet_type','application_preference',

'old_license','vaccination_record','address_proof']
    success_url='/home/'
    def form_valid(self,form):

        form.instance.user = self.request.user
    return super().form_valid(form)
    def get_success_message(self,cleaned_data):
        print(cleaned_data)
        return"Application Submitted Successfully, We will
        contact you for further updates!"
```

## 7.2. SCREEN SHOTS



The screenshot shows the 'Join Today' registration form on the Pet Lookout website. The form is located on a light gray background with a dark blue header. The header contains the Pet Lookout logo and navigation links: Home, About, Pet Cab, Cakes and Food, BBMP License, Login, and Register. The registration form includes fields for Username, Email, Password, and Password confirmation. The Username field has a required field message: 'Required. 150 characters or fewer. Letters, digits and @/./+/-/\_ only.' The Password field has a required field message: 'Your password can't be too similar to your other personal information. Your password must contain at least 8 characters. Your password can't be a commonly used password. Your password can't be entirely numeric.' The Password confirmation field has a required field message: 'Enter the same password as before, for verification.' A 'Sign Up' button is located below the Password confirmation field. At the bottom of the form, there is a link for 'Already Have An Account? Sign In'.

**Join Today**

Username\*

Required. 150 characters or fewer. Letters, digits and @/./+/-/\_ only.

Email\*

Password\*

Your password can't be too similar to your other personal information. Your password must contain at least 8 characters. Your password can't be a commonly used password. Your password can't be entirely numeric.

Password confirmation\*

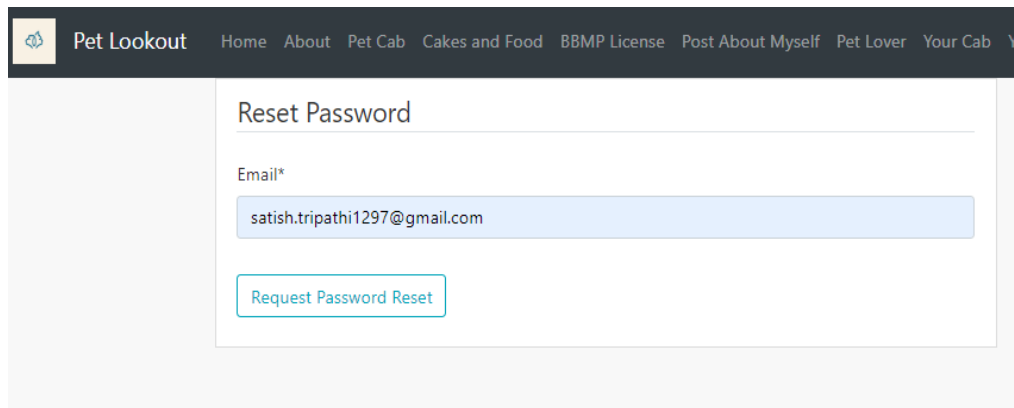
Enter the same password as before, for verification.

[Sign Up](#)

Already Have An Account? [Sign In](#)

Figure 7.1 Pet Lookout Registration Screen

The figure 7.1 is Pet Lookout registration screen. New users can register from here and registered user can click on sign in now to login.



The screenshot shows the 'Reset Password' page of the Pet Lookout application. At the top, there is a dark navigation bar with the Pet Lookout logo and several menu items: Home, About, Pet Cab, Cakes and Food, BBMP License, Post About Myself, Pet Lover, Your Cab, and You. Below the navigation bar, the main content area has a light gray background. On the right side, there is a white box with the title 'Reset Password'. Inside this box, there is a label 'Email\*' followed by a text input field containing the email address 'satish.tripathi1297@gmail.com'. Below the input field, there is a blue button with the text 'Request Password Reset'.

Figure 7.2 Password Reset

In figure 7.2 it depicts the password reset page where Pet Lookout Users can apply for request in change in password once the user click on the request password reset an email is sent to the user with instructions.

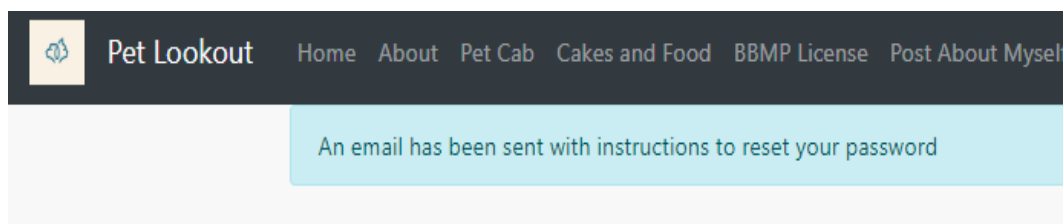
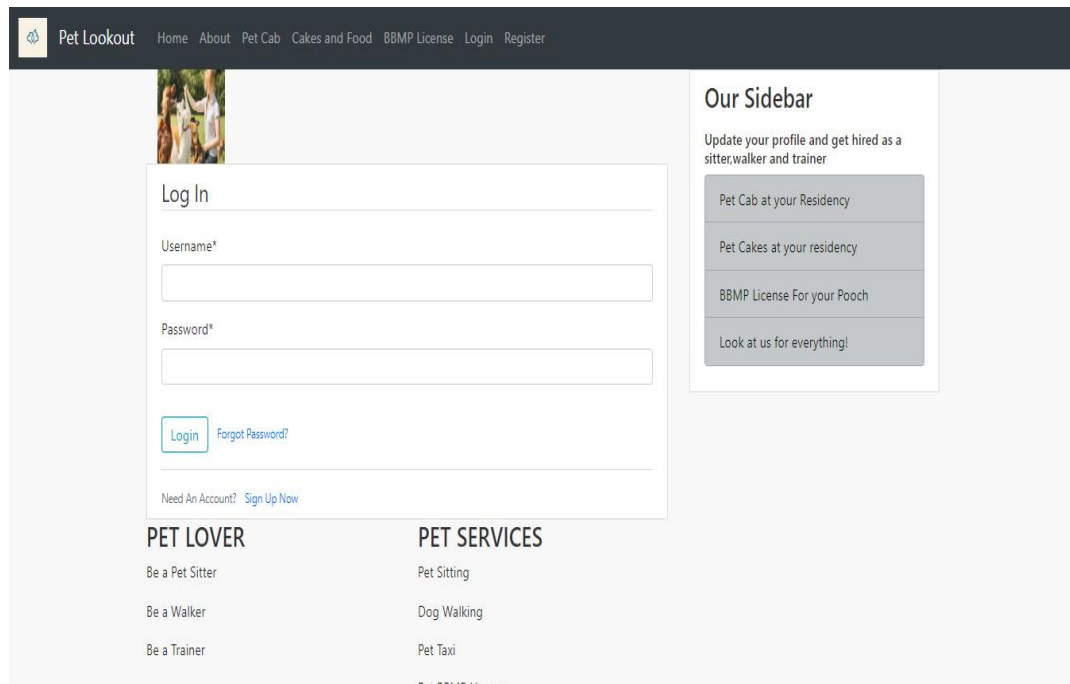


Figure 7.3 Password reset screen.

Figure 7.3 shows how the user can rest the password by receiving a link to their email requesting them to reset the password.



The screenshot shows the Pet Lookout website's login interface. At the top is a dark navigation bar with the site logo and links for Home, About, Pet Cab, Cakes and Food, BBMP License, Login, and Register. Below the navigation bar, on the left, is a 'Log In' section with a small image of people with a dog. It contains input fields for 'Username\*' and 'Password\*', a 'Login' button, and a 'Forgot Password?' link. Below these is a link for 'Need An Account? Sign Up Now'. To the right of the login section is a 'Our Sidebar' box with the text 'Update your profile and get hired as a sitter,walker and trainer' and four buttons: 'Pet Cab at your Residency', 'Pet Cakes at your residency', 'BBMP License For your Pooch', and 'Look at us for everything!'. At the bottom of the page, there are two columns: 'PET LOVER' with links 'Be a Pet Sitter', 'Be a Walker', and 'Be a Trainer'; and 'PET SERVICES' with links 'Pet Sitting', 'Dog Walking', and 'Pet Taxi'.

**Log In**

Username\*

Password\*

Login [Forgot Password?](#)

[Need An Account? Sign Up Now](#)

**PET LOVER**

- Be a Pet Sitter
- Be a Walker
- Be a Trainer

**PET SERVICES**

- Pet Sitting
- Dog Walking
- Pet Taxi

**Our Sidebar**

Update your profile and get hired as a sitter,walker and trainer

- Pet Cab at your Residency
- Pet Cakes at your residency
- BBMP License For your Pooch
- Look at us for everything!

Figure 7.4 Pet Lookout Login Screen

The registered users can login by entering the username and password used by them during the registration process.

**Pet Lookout** | [Home](#) | [About](#) | [Pet Cabi](#) | [Cakes and Food](#) | [BOMP License](#) | [Post About Myself](#) | [Pet Lover](#) | [Your Cabi](#) | [Your License](#) | [Logout](#)

## About Us

In this day and age, life is understandably hectic for many pet parents. With commitments at work, time out with friends and family, full time attention to our pets are usually not a possibility. So whether you are having late nights at work, out on a holiday or simply need a break and need pet sitting, in home boarding, daycare, dog walking or even pet training, Pet Lookout is here to connect you with other pet lovers who are ready to help you take care of your pets like it were part of their family, belly rubs and hugs included.



Pet Lookout sitters and pet service providers are normal people who love pets, just like you. They are pet people who are dedicated to put time into giving your pet a day worth barking or meowing about, if you've got that sort of pet. Your pet stays in a home, free to roam and explore, rather than in the confines of a 3 foot cage typical in kennels or pet hotels. You wouldn't want to be locked in a cage when your other half is away! Pet Lookout sitters give your pet much deserved attention while you are away. Compare that to rows and rows of pets trying to seek attention from just a few attendants in a kennel or pet shop. Some of our sitters even go to great lengths, giving your pets' treats and delicious home cooked food.



### Cakes as Treats

Our furry friends bring us so much joy that we hardly need an excuse to spoil them. However when their birthday or a special holiday like Love Your Pet Day (February 20th) rolls around, many of us want to treat them to something special. That's where these dog cake recipes comes in! Dog cakes (or pupcakes, as some like to call them) are a tasty way to celebrate. They also make for a great photo op. Before you get started, we'll walk you through the ingredients that are healthiest for your pup.

[Go to Shop »](#)

### Joy for furry mate

Whether it's your dog's birthday, they just graduated from training school or you just want to treat them to a little something special, dog cakes will do the trick. While they're enjoying their pupcake, treat yourself something special out of a personalized pet mug. Even better, take it to work to remind you of your furry friend all day.

[View Shop »](#)

### Contact Us

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Phone: +91 91484 51003 Phone: Email: [petlookout8918@gmail.com](mailto:petlookout8918@gmail.com)  
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Figure 7.5 Pet Lookout about page

Figure 7.5 briefs up user about how the website works and the services provided on the website and the process of working .

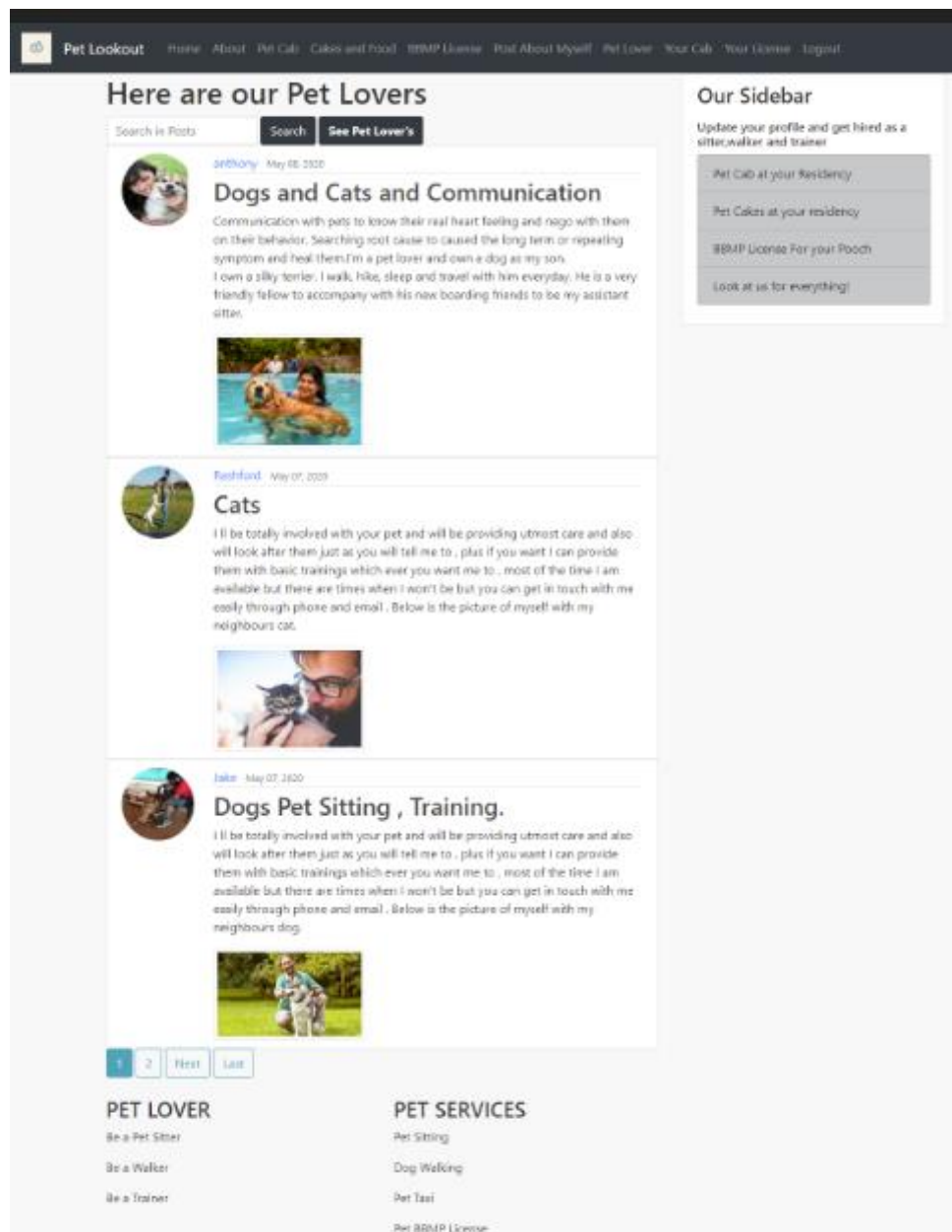


Figure 7.6 Posts posted by Pet Lovers

The page consists of all the posts posted by all the pet lovers in which they have posted about themselves which include their interests and the way in which they will be taking care of the pets and their experiences with other pet including a picture of themselves

with a pet. Users can also move from one post page to another with the help of paginations and just by clicking on the name of the pet lover they will be directed to the detail view of their profile.

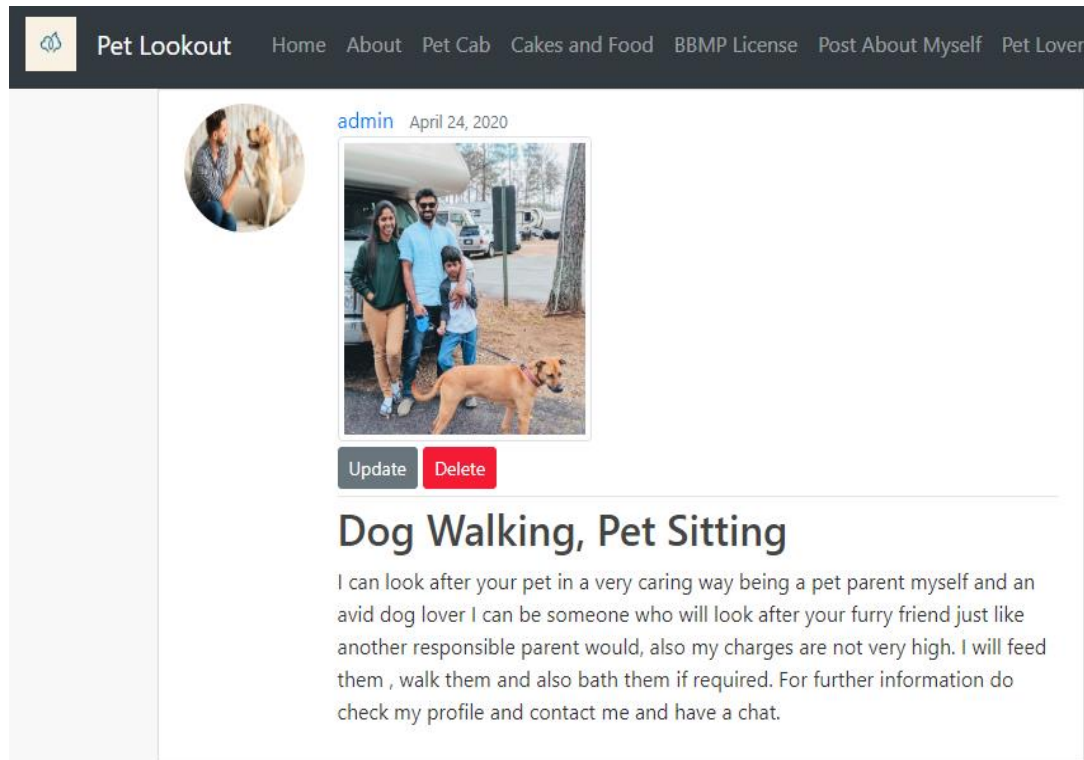
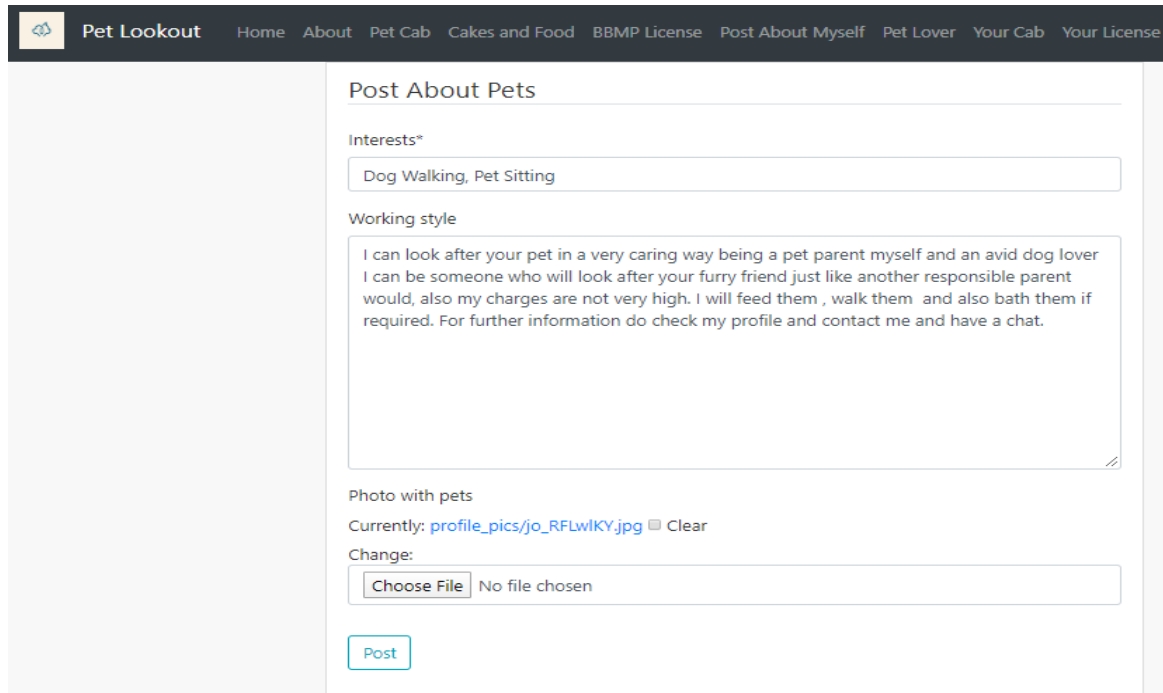


Figure 7.7 Pet Lovers individual post

In the figure above , pet lover can update and delete the post posted by him.





**Pet Lookout** Home About Pet Cab Cakes and Food BBMP License Post About Myself Pet Lover Your Cab Your License

### Post About Pets

Interests\*

Dog Walking, Pet Sitting

Working style

I can look after your pet in a very caring way being a pet parent myself and an avid dog lover I can be someone who will look after your furry friend just like another responsible parent would, also my charges are not very high. I will feed them , walk them and also bath them if required. For further information do check my profile and contact me and have a chat.

Photo with pets

Currently: [profile\\_pics/jo\\_RFLwKY.jpg](#) Clear


Change:

Choose File No file chosen


Post

Figure 7.8 Pet Lover posting post

In figure 7.8 Pet lover posts about pet related topics and attach a picture of pet

 Pet Lookout

[Home](#) [About](#) [Pet Cab](#) [Cakes and Food](#) [BBMP License](#) [Post About Myself](#) [Pet Lover](#) [Yes](#)



## Martial Anthony

anthony@gmail.com

DOGS&CAT

I will gladly walk or run a dog at your neighbourhood or parks if there are any closeby, let it do it's business and clean up. Walks will be 45 mins to 1 hour depending on the health and age of the dog. I will also ensure the dog is in a safe environment at all times as trust is utmost important when this service is being carried out. I grew up having dogs all my life. They are stress relievers and anyone of you out there who owns a pet knows you only want the best for them. They are as much humans and needs the best care and love. I will be more than happy to make a dogs day by giving him/her daily walks. I owned a German Shepard when I was growing up. After that several mix breeds and lastly a shih tzu. Just like many dog owners, I cried for days when it was time for them to cross the rainbow bridge. It's just too painful to endure losing them so I have decided it's better I only baby sit others' pet than owning my own for now.

### Hi there Pet Parent I am a DOGS&CAT Person

Age :: 24

Gender :: Female

Address :: C 205 Kripa Nagar

Job Type :: Walker

Phone No :: 953870661

Email :: anthony@gmail.com

Pet Preference :: DOGS&CAT

Session(Hourly) Charges :: 150


Organisation I joined :: Ekta

Overnight Rate :: 0

Organisation Member(If any):: True

Pet First Aid or CPR :: True

My Photo with my pet::



#### General FAQs

Q: How does this work?

**Answer:**  
View the profile of our pet lovers and whomeveryou find it to be more appealing and good for pet contact them and give your requirements details and the availability of them.

Figure 7.9 Pet Lover's profile

Figure 7.9 shows the detail view of the pet lover describing his/her abilities and specialties.

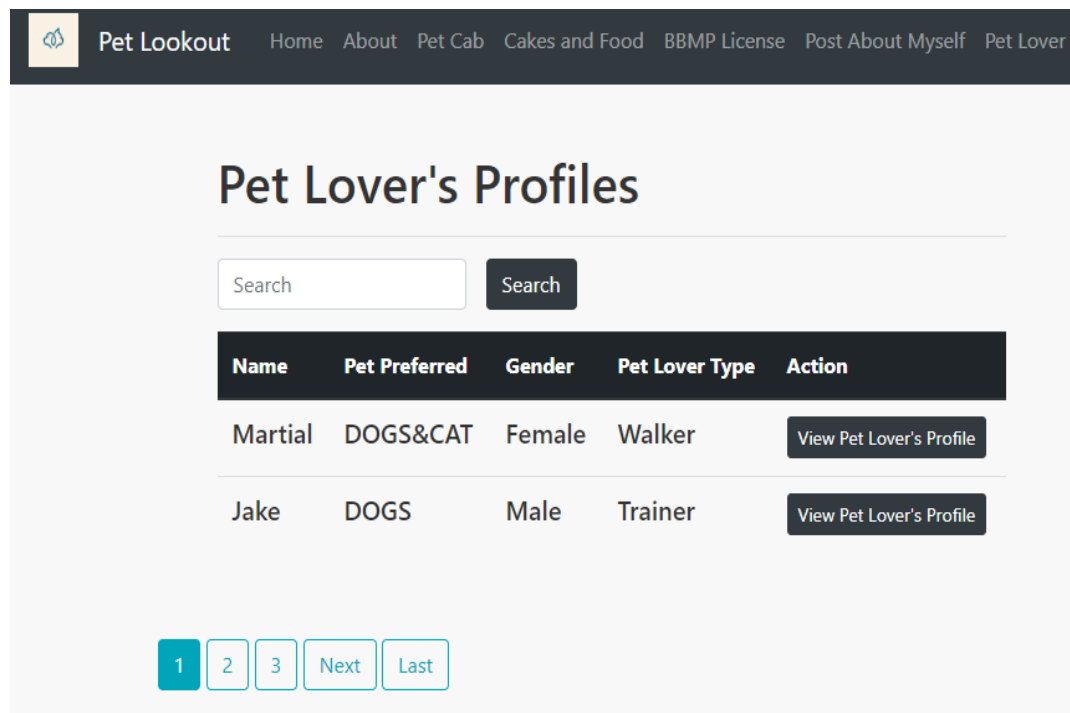


Figure 7.10 List of Pet Lover's profiles

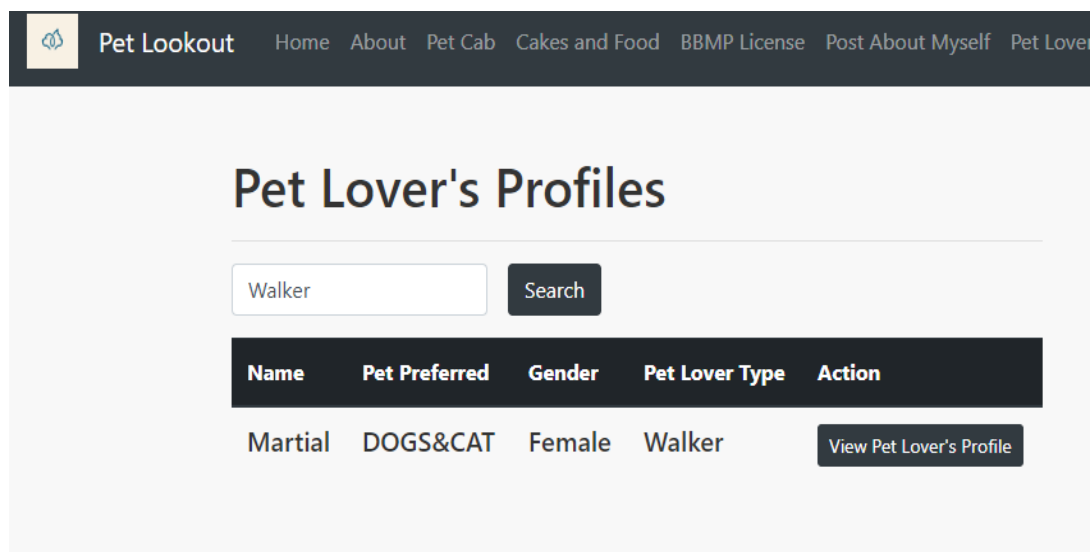



Figure 7.11 Pet Lover's profile search

The above figures 7.10 and 7.11 comprises of the list of pet lovers and their profiles where user can search for them accordingly by pet lover's type for example a 'Walker' in this case.



**Jake**  
jake12@gmail.com

**Update Profile Info to become a professional**

**Username\***

Required. 150 characters or fewer. Letters, digits and @/./+/-/\_ only.

**Email\***

**Image\***

Currently: [profile\\_pics/jas\\_QDmchL2.jpg](#)

Change:

No file chosen

**Age\***

**Zip code\***

**Phone**

**Describe yourself\***

Since I have grown up with dogs , I can easily relate to them I can train then walk them feed them and also provide certain excercises to burn off those extra hyper activity of your pooch. I can do home sitting as well as pet sitting depending on the situation , you can easily get in touch in touch with me through the information I provide here on the website.I too have 2 dogs and can easily know how much it worries us to leave them alone and go out work. But with me your pooch doesn't have to worry.

**Experience\***

**Hourly rate\***

**Member of any organisation**

**Organisation name**

**Job type**

**Gender**

**Pet preference**

**Date posted\***

**Your photos with pets**

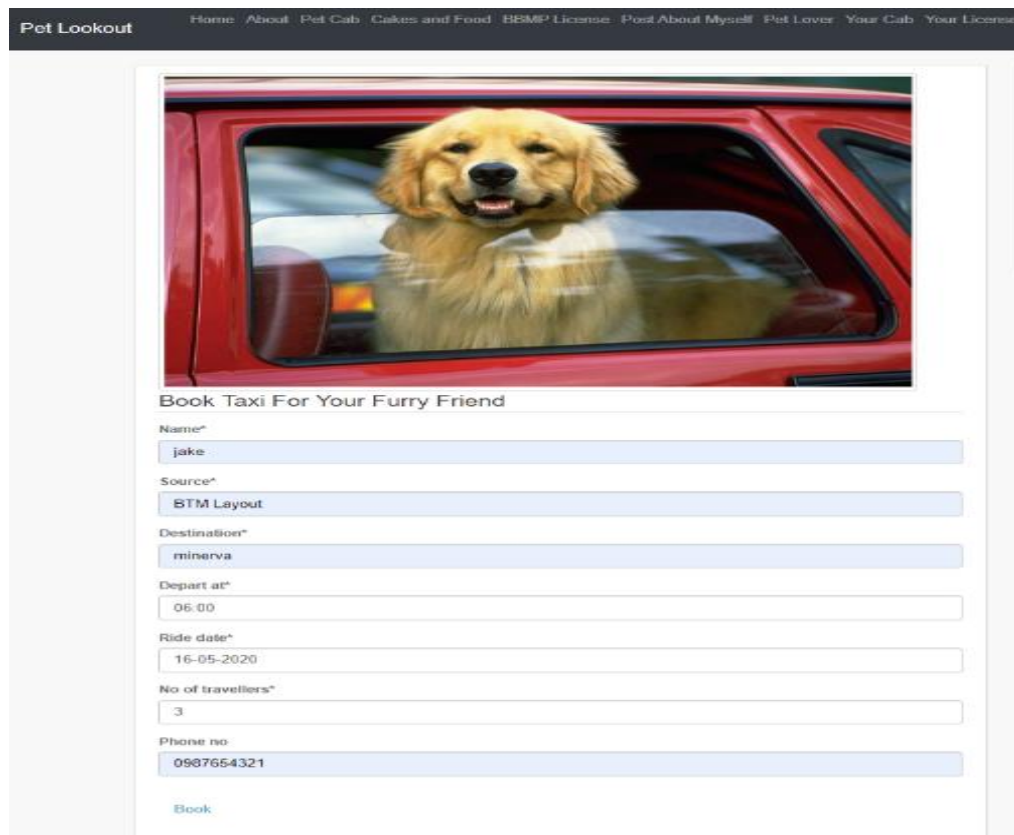
Currently: [profile\\_pics/jas\\_cX4iClu.jpg](#)

Change:

No file chosen

Figure 7.12 User updates profile as pet lover

In figure 7.12 user who want to become a pet sitter, walker ,trainer can update his/her profile through filling in the details like .pet preference, job type, experience etc.



Pet Lookout   Home   About   Pet Cab   Cakes and Food   BEMP License   Post About Myself   Pet Lover   Your Cab   Your License

**Book Taxi For Your Furry Friend**

Name\*  
jake

Source\*  
BTM Layout

Destination\*  
minerva

Depart at\*  
06:00

Ride date\*  
16-05-2020

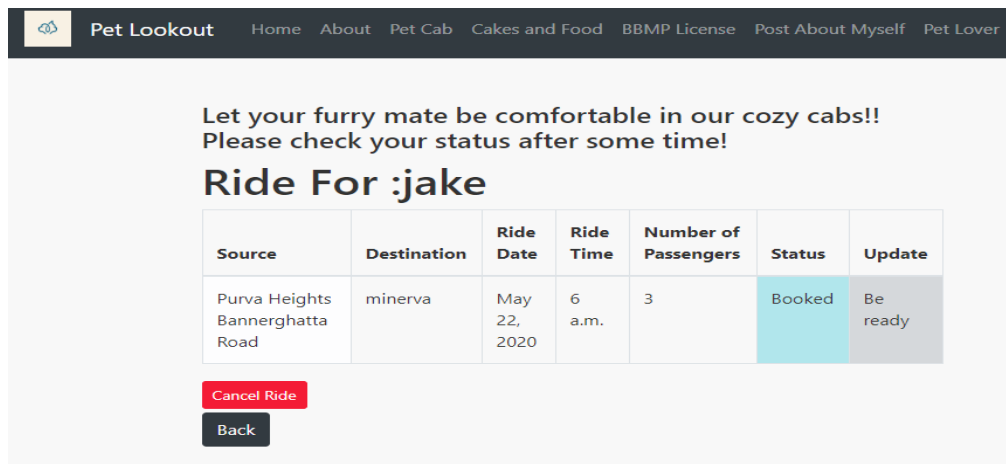
No of travellers\*  
3

Phone no.  
0987654321

Book

Figure 7.13 Pet cab booking screen

Figure 7.13 where the user can book a cab for their pet to travel with them by entering all the details like name, source ,destination, number of travelers, ride date and ride time.



The screenshot shows the Pet Lookout website interface. At the top is a dark navigation bar with the site logo and links: Home, About, Pet Cab, Cakes and Food, BBMP License, Post About Myself, and Pet Lover. Below the navigation bar, a light gray box contains the following content:

Let your furry mate be comfortable in our cozy cabs!!  
Please check your status after some time!

### Ride For :jake

Source	Destination	Ride Date	Ride Time	Number of Passengers	Status	Update
Purva Heights Bannerghatta Road	minerva	May 22, 2020	6 a.m.	3	Booked	Be ready

Below the table are two buttons: a red 'Cancel Ride' button and a dark gray 'Back' button.

Figure 7.14 Cab Booking Update

In the figure 7.14 user can see the status of their booking updated by the admin.

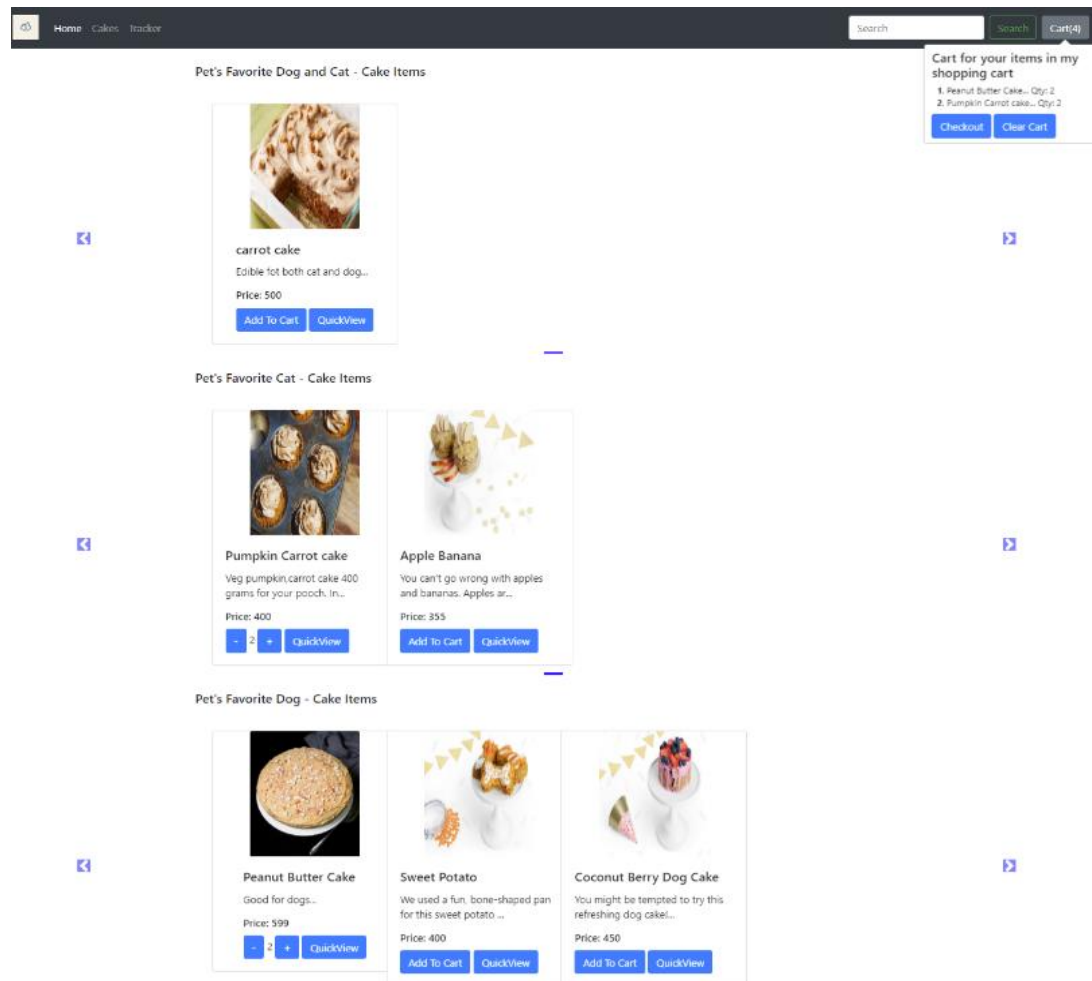


Figure 7.15 Cakes and Treats homepage

In the figure 7.15 all the varieties of cakes and treats for the pets can be seen categorized as cats and dog's food items, user can also add the items in their cart from here.

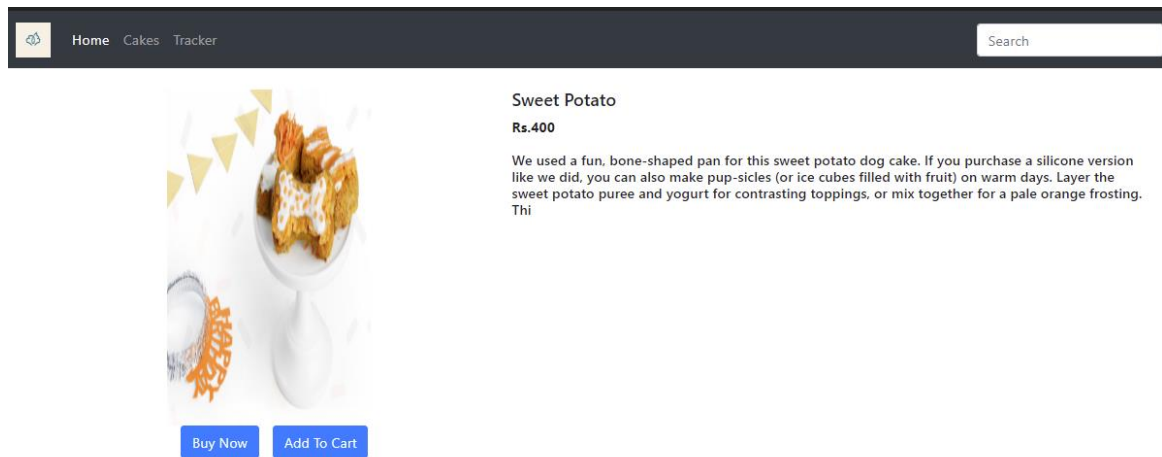


Figure 7.16 Items detail page

In the figure 7.16 the item can be viewed in detail composing of the description of food item.

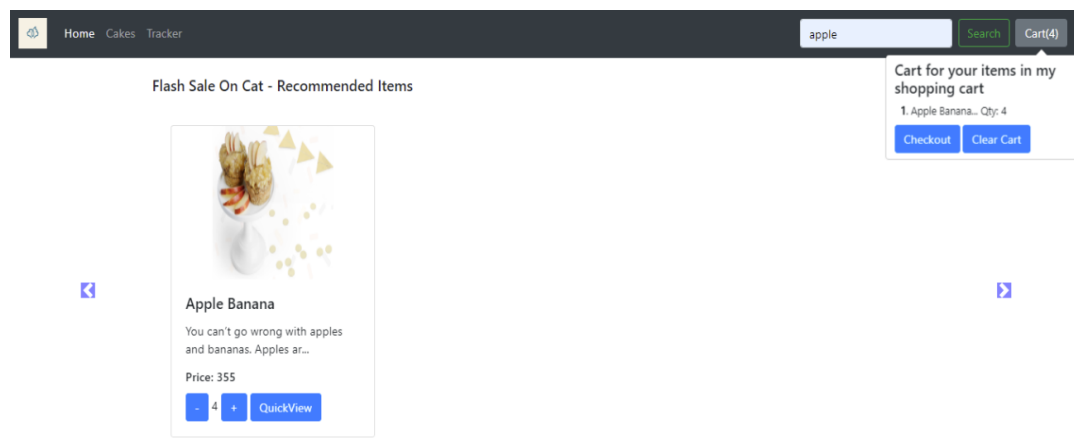


Figure 7.17 Item search and cart

In the figure 7.17 it can be clearly viewed the food item being searched and added to the cart.



### Step 1 - Pet Lookout Checkout - Review Your Cart Items

Apple Banana	2
Pumpkin Carrot cake	3
carrot cake	1
Peanut Butter Cake	1

Your Cart Total Is ₹ 3009. Enter your details below & place your order. Thanks for using Pet Lookout ! Hope to serve you and your pup again.

### Step 2 - Enter Address & Other Details:

Name Email

jake jake@gmail.com

Address

C 205 Kripa Nagar

Address line 2

bangalore

City State Zip

bengaluru karnataka 560076

Phone Number

9680123451

Place Order

Figure 7.2.18 Checkout Page

Figure 7.2.18 depicts the checkout page which consist of all the order details and delivery details of the user like name , address, phone, email and the price of the items.

Cakes Tracker

### Enter your Order Id and Email address to track your order

Order Id Email

10 jake@gmail.com

Track Order

### Your Order Status


The order has been placed 2020-05-08

### Your Order Details


Sweet Potato	1
Peanut Butter Cake	2

Figure 7.19 Track order page

In the above figure user can track the order status of theirs by entering the order id and email and the status are updated by the admin.

 Pet Lookout

[Home](#) [About](#) [Pet Cab](#) [Cakes and Food](#) [BBMP License](#) [Post About Myself](#) [Pet Lover](#) [Your Cab](#) [Your License](#) [Logout](#)



Send Your Application To Us and We will deliver it to you

First name\*

Last name\*

Pet name\*

Pet colour\*

Pet breed\*

Pet age\*

Address\*

Phone

Pet gender  
Male

Pet type  
Dog

Application preference

### Our Sidebar

Update your profile and get hired as a sitter,walker and trainer

- Pet Cab at your Residency
- Pet Cakes at your residency
- BBMP License For your Pooch
- Look at us for everything!

Pet gender  
Male

Pet type  
Dog

Application preference  
New

Old license  
[Choose File](#) No file chosen

Vaccination record\*  
[Choose File](#) No file chosen

Address proof\*  
[Choose File](#) No file chosen

[Send Application](#)

### General FAQs

[Q: How does this work?](#)

Figure 7.20 BBMP license application page

In figure 7.20 user can apply for bbmp license by filling in all the mandatory details like pet name, pet color, pet breed ,license type, pet type etc.

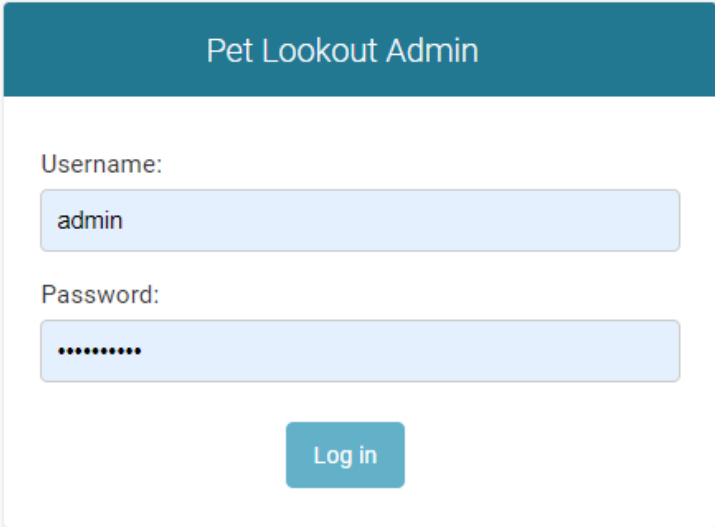
The image shows a web form for the 'Pet Lookout Admin' login page. The form is centered on a light gray background. It has a dark teal header bar with the text 'Pet Lookout Admin' in white. Below the header, there are two input fields: 'Username:' with the value 'admin' and 'Password:' with a masked password represented by dots. A teal 'Log in' button is positioned below the password field.

Figure 7.21 Admin login page

Figure 7.21 shows the admin login page where the admin who is the superuser of the system can login with the username and password.

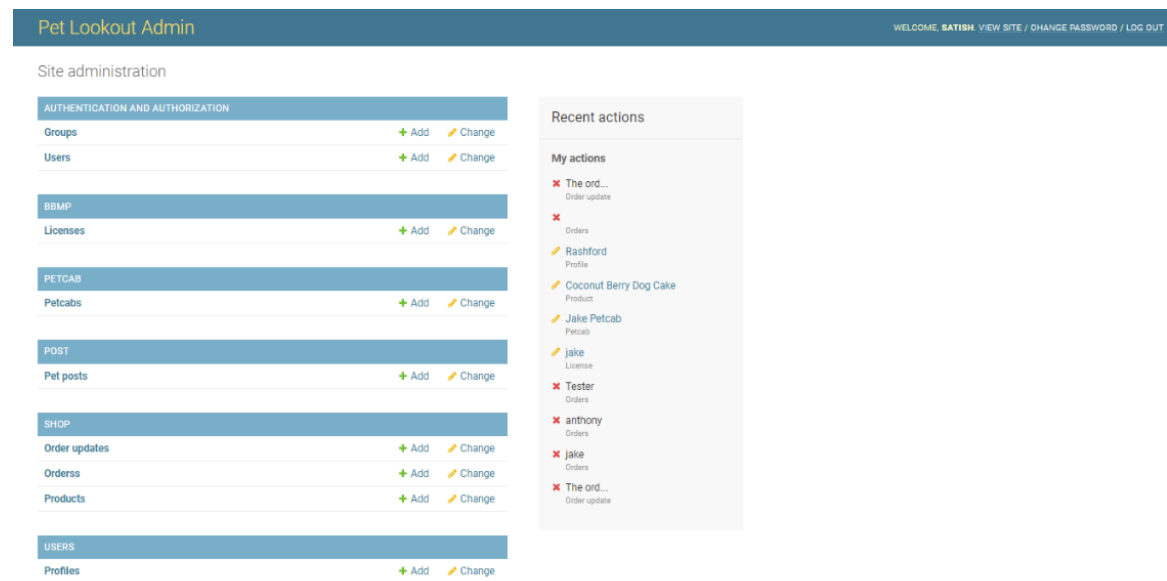


Figure 7.22 Admin's dashboard

Figure 7.22 shows the admin dashboard where admin can see all the users, profiles, booking made by the users, application for licenses, posts created by the users, orders and admin can also add and update products. Admin also has to update the status of bookings and orders made by the users.

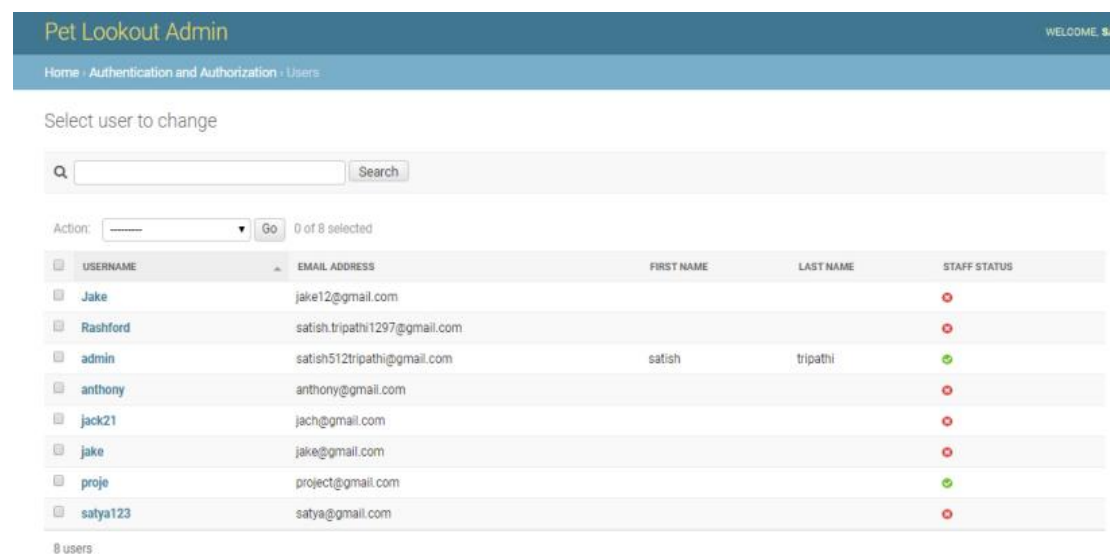


Figure 7.23 List of users

In the figure 7.23 admin has the list of all the users registered on the website and also the admin has the access to delete the users and change the data.

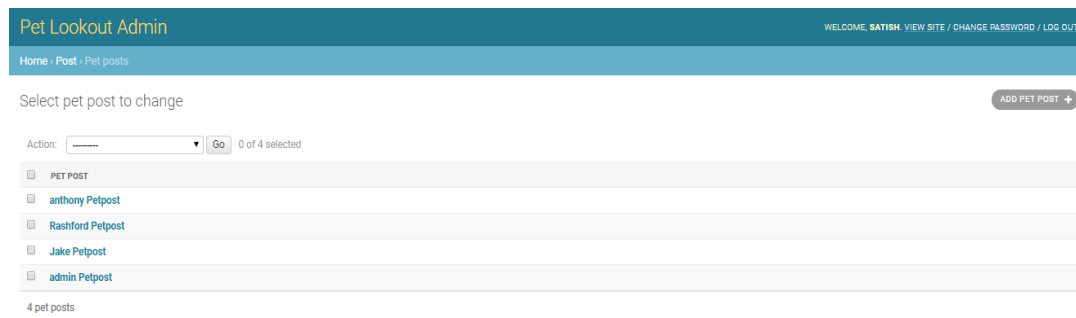


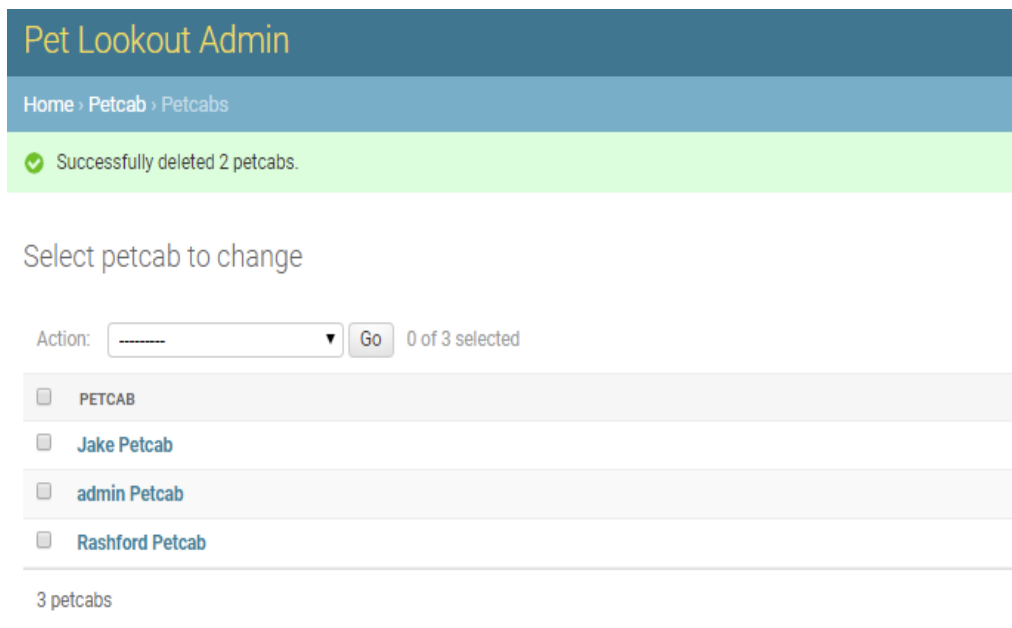
Figure 7.24 List of pet posts posted by pet lovers.

Figure 7.24 shows the list of pet post posted by the user , admin can view these posts and can also delete it if required.

The screenshot shows the 'Change license' form in the 'Pet Lookout Admin' dashboard. The form is titled 'Change license' and has a 'HISTORY' button. The form fields are: 'User' (dropdown menu with 'Jake' selected), 'First name' (text input with 'jake'), 'Last name' (text input with 'Fernandes'), 'Pet name' (text input with 'jack'), 'Pet colour' (text input with 'Black'), 'Pet breed' (text input with 'german shephard'), 'Pet age' (text input with '2.0'), 'Address' (text input with 'c 205 Kripa nagar'), 'Phone' (text input with '9880123451'), 'Status' (dropdown menu with 'Out for delivery' selected), 'Message' (text input with 'Information Received, Kindly Check Again At'), 'Pet gender' (dropdown menu with 'Male' selected), 'Pet type' (dropdown menu with 'Dog' selected), 'Application preference' (dropdown menu with 'Renew' selected), 'Old license' (text input with 'Currently: media/vaccine.pdf' and a 'Choose File' button), 'Vaccination record' (text input with 'Currently: media/address\_proof.pdf' and a 'Choose File' button), and 'Address proof' (text input with 'Currently: media/old.pdf' and a 'Choose File' button). At the bottom of the form, there are three buttons: 'Delete', 'Save and add another', and 'Save and continue editing', and a 'SAVE' button.

Figure 7.25 License Application

Figure 7.25 depicts the license application applied by the user where admin can update the status by changing it to invalid, received or out for delivery.



**Pet Lookout Admin**

Home > Petcab > Petcabs

✓ Successfully deleted 2 petcabs.

Select petcab to change

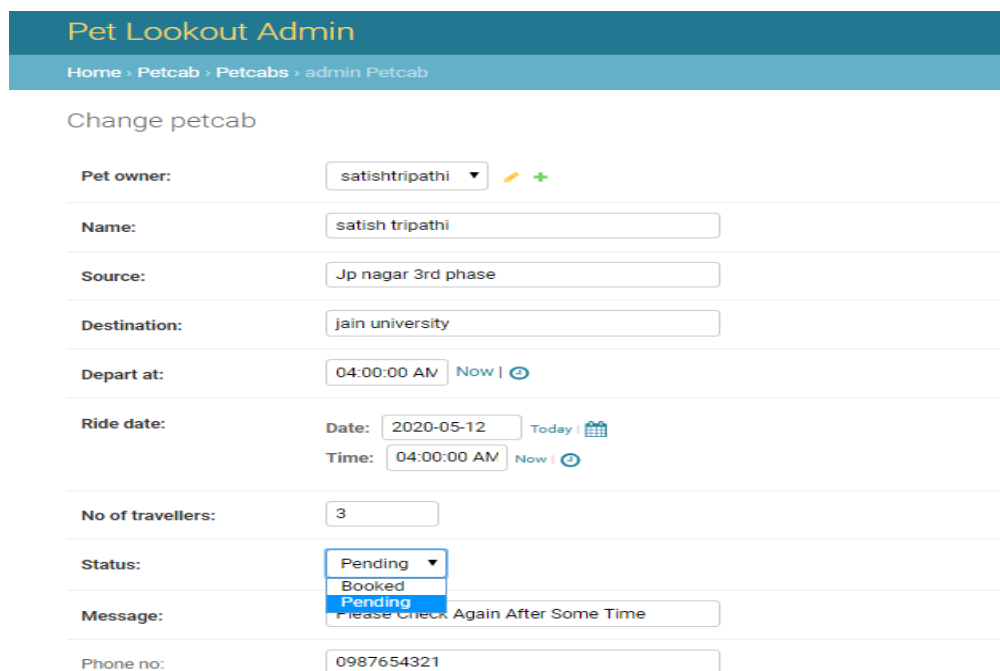
Action:  Go 0 of 3 selected

<input type="checkbox"/>	PETCAB
<input type="checkbox"/>	Jake Petcab
<input type="checkbox"/>	admin Petcab
<input type="checkbox"/>	Rashford Petcab

3 petcabs

Figure 7.26 Pet cab booking lists



It consist of the booking made by the users , the admin can update status of their bookings.



**Pet Lookout Admin**

Home > Petcab > Petcabs > admin Petcab


Change petcab



**Pet owner:**   

**Name:**


**Source:**

**Destination:**

**Depart at:**  [Now](#) | 

**Ride date:** **Date:**  [Today](#) |   
**Time:**  [Now](#) | 

**No of travellers:**

**Status:**  

**Message:**

**Phone no:**

Figure 7.27 Pet cab user's booking

In the figure 7.27 admin confirms the booking of the user by changing the status to booked and updating the message.

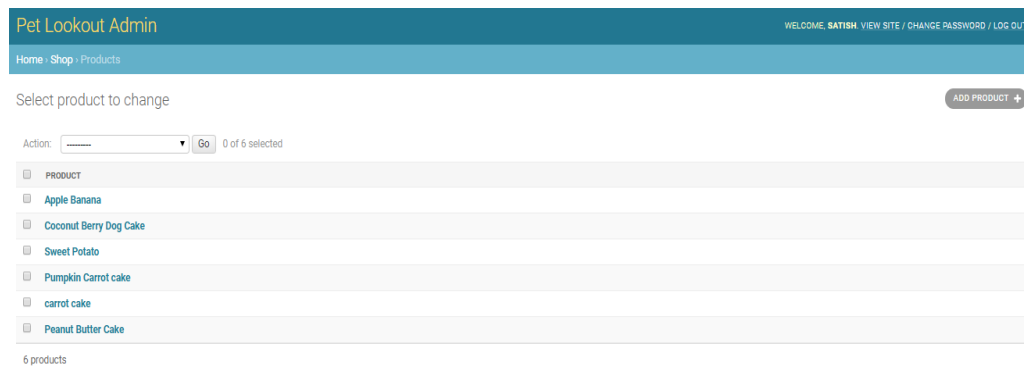


Figure 7.28 Products list page

In above mentioned figure all the products which were added by the admin can be seen , admin can also update these products and add new products to this list.

The screenshot shows the 'Pet Lookout Admin' 'Add product' form. The header and breadcrumb trail are the same as in Figure 7.28. The form fields are: Product name (Meat Loaf), Category (Dog), Subcategory (Cakes), Price (500), Desc (Treat your pup to this meat lover's special. Th), Pub date (2020-05-12), and Image (Choose File | meat-loaf-dog-cake.jpg). At the bottom right, there are three buttons: 'Save and add another', 'Save and continue editing', and 'SAVE'.

Figure 7.2.29 Add Product page

Figure 7.29 shows how the admin will add new products by entering the product name , description, price, categories and the image of the product.

The screenshot shows the 'Pet Lookout Admin' interface. At the top, there's a header with the site name and user information: 'WELCOME, SATISH / VIEW SITE / CHANGE PASSWORD / LOG OUT'. Below the header is a breadcrumb trail: 'Home > Shop > Order updates > The ord...'. The main section is titled 'Change order update' and includes a 'HISTORY' button. There are two input fields: 'Order id:' with the value '10' and 'Update desc:' with the text 'The order has been placed it will reach to you'. At the bottom, there are three buttons: 'Delete' (red), 'Save and add another' (blue), and 'Save and continue editing' (blue), followed by a 'SAVE' button (blue).

Figure 7.30 Order update page

In the above figure admin updates the status of the order by updating the update desc and entering the details of the order.



# SOFTWARE TESTING

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## 8. SOFTWARE TESTING

Software testing is a procedure to assess the usefulness of the product application. Experiments are set up for programming check and programming approval to decide whether the application was worked by the necessities of the user.

### 8.1. TEST CASES

Table 8.1 Test Cases

<b>TID</b>	<b>Description</b>	<b>Input</b>	<b>Expected result</b>	<b>Actual result</b>	<b>Test result</b>
1	Check User login with valid data	valid username, password	user should be able to login and go to home page	Login is successful	Pass
2	Check user Login with Invalid data	Correct username, Incorrect password	Error message as Enter correct username and password.	Error message as Enter correct username and password.	Pass
3	Check user login with invalid data	Invalid username, Valid password	Error message as Enter correct username and password.	Error message as Enter correct username and password.	Pass
4	Check user login with invalid data	Invalid username, Invalid password	Error message as Enter correct username and password.	Error message as Enter correct username and password.	Pass
5	Check registration with same username	Same username	Error message as Invalid Credentials	Username already exists	Pass

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6	Check registration with different username and enter details	Different username	Registered successfully.	Registered successful. You can now log in.	Pass
7	Check Login with not activated user	Enter username and password	Error message as Enter correct username and password.	Error message as Enter correct username and password.	Pass
8	Admin Login	Invalid username, Invalid password	Error message not authorized.	Error message as, enter the correct username and password for a staff account.	Pass
9	Check Admin Login With valid data	valid superuser username, and password	Admin should be able to log in and go to admin dashboard.	Login is successful	Pass

---

10	Admin add Food Product.	Login as Admin. Enter Product Details. Click on Add	Product added successfully.	Added product should be displayed in product view.	Pass
11	Admin confirm Pet cab Booking	Select user from list of pet cab , Click on booking status option Select Booked. Click on save.	Pet cab booking status updated successfully.	Pet cab booking status updated successfully.	Pass
12	Pet Cab Booking	Enter number of passenger as 1. .	Error message	Error message as ensure this value is greater than or equal to 2.	Pass
13	Pet Cab Booking	Enter number of passenger as 6.	Error Message	Error message as ensure this value is greater than or equal to 4.	Pass

---

## 8.2 SELENIUM TEST CASES

Test Case ID	1	Test Case Description	Check User Login with valid data		
Created By	Satish				
Tester's Name	Satish	Date Tested	May 8, 2020	Test Case (Pass/Fail/Not Executed)	Pass
S #	Prerequisites:	S #	Test Data		
1	Access to Chrome Browser	1	Username = jake		
2		2	password = estophando		
3		3			
4		4			
Test Scenario	Verify on entering valid username and password user can login				
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Navigate to http://127.0.0.1:8000/login/	Site should open	As Expected	Pass	
2	Enter Username & Password	Credential can be entered	As Expected	Pass	
3	Click Login	User is logged in	As Expected	Pass	

Figure 8.1 User login with valid data test case

In the above figure user will login with all the valid credentials which include username and password and thus will get access to the website by logging in resulting in passing of the test case.

Test Case ID	2	Test Case Description	Check Admin Login with valid data		
Created By	Satish				
Tester's Name	Satish	Date Tested	May 8, 2020	Test Case (Pass/Fail/Not Executed)	Pass
S #	Prerequisites:		S #	Test Data	
1	Access to Chrome Browser		1	Username = admin	
2			2	password = estophando	
3			3		
4			4		
<b>Test Scenario</b> Verify on entering valid username and password the admin can login.					
Step #		Expected Results	Actual Results		Pass / Fail / Not executed / Suspended
1	Navigate to <a href="http://127.0.0.1:8000/admin/login/?next=/admin/">http://127.0.0.1:8000/admin/login/?next=/admin/</a>	Site should open	As Expected		Pass
2	Enter username and password	Credential can be entered	As Expected		Pass
3	Click Login	Admin is logged in	As Expected		Pass

Figure 8.2 Admin login with valid data test case

In figure 8.2 admin logs in with the superuser credentials which include username and password and thus will get access to the administration site website by logging in resulting in passing of the test case.

Test Case ID	3	Test Case Description	Test the number of travellers in pet cab booking		
Created By	Satish				
Tester's Name	Satish	Date Tested	May 8, 2020	Test Case (Pass/Fail/Not Executed)	Pass
S #	Prerequisites:	S #	Test Data		
1	Access to Chrome Browser	1	Name = jake		
2		2	Source = btm		
3		3	Destination = pes		
4		4	Depart at = 7:30		
		5	Ride date = 2020-05-19		
		6	No of travellers = 1		
		7	Phone = 0987654321		
Test Scenario	Verify on submitting the booking form with invalid input for number of travellers.				
Step #		Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Navigate to <a href="http://127.0.0.1:8000/petcab/create/">http://127.0.0.1:8000/petcab/create/</a>	Site should open	As Expected	Pass	
2		Credential can be entered	As Expected	Pass	
3	Enter Name,Source,Destination,Depart at, Ride date, Number of travellers, Phone Click Book	Error message as ensure this value is greater than or equal to 2.	As Expected	Pass	

Figure 8.3 Number of travelers test case

In figure 8.3 User will enter less than 2 as number of traveler and will be alerted to enter more than 1 as resulting in the passing of the test case.

Test Case ID	4	Test Case Description	User registration with an existing username		
Created By	Satish				

Tester's Name	Satish	Date Tested	May 8, 2020	Test Case (Pass/Fail/Not Executed)	Pass
---------------	--------	-------------	-------------	------------------------------------	------

S #	Prerequisites:		S #	Test Data Requirement
1	Access to Chrome Browser		1	username = jake
2			2	email = jake@gmail.com
3			3	password = estophando
4			4	password confirmation = estophando

**Test Conditions**

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	<a href="http://127.0.0.1:8000/register/">http://127.0.0.1:8000/register/</a>	site should open	As Expected	Pass
2	Enter username,email, password and password confirmation	Credentials can be entered.	As Expected	Pass
3	Click Sign Up	Error message as username already exists	As Expected	Pass

Figure 8.4 User registration with an existing username.

In figure 8.4 test case user registration with an existing username is tested by entering all the credentials which includes existing username, email , password and confirm password , as expected result matched with the actual test case passed.



Test Case ID	5	Test Case Description	Track Ordered Order		
Created By	Satish				

Tester's Name	Satish	Date Tested	8 May , 2020	Test Case (Pass/Fail/Not Executed)	Pass
---------------	--------	-------------	--------------	------------------------------------	------

S #	Prerequisites:
1	Access to Chrome Browser

S #	Test Data
1	Order id = 10
2	Email = jake@gmail.com

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	<a href="http://127.0.0.1:8000/tracker/">http://127.0.0.1:8000/tracker/</a>	Site should open	As Expected	Pass
2	Enter order id and Email	Data can be entered	As Expected	Pass
3	Click Track order	Order details and order status	As Expected	Pass

Figure 8.5 Track ordered order status test case

In figure 8.5 order id and email will be entered in order to track the ordered items and to get the status of the order, all the expected results and actual results matched and hence the test case passed.

Test Case ID	6	Test Case Description	Search unavailable products		
Created By	Satish				

Tester's Name	Satish	Date Tested	8 May , 2020	Test Case (Pass/Fail/Not Executed)	Pass
---------------	--------	-------------	--------------	------------------------------------	------

S #	Prerequisites:
1	Access to Chrome Browser

S #	Test Data
1	product name = mango

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	<a href="http://127.0.0.1:8000/">http://127.0.0.1:8000/</a>	Site should open.	As Expected	Pass
2	Enter product	product name can be entered	As Expected	Pass
3	Click search	Error message as Please make sure to enter relevant product name	As Expected	Pass

Figure 8.6 Search unavailable product test case

In figure 8.6 test case User will enter the product which is not available on the system and hence resulting in passing of the test case as error message will be shown to enter a relevant product name.

# CONCLUSION

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## 9. CONCLUSION

With the increase in number of pet owners every year, the developed web application will provide great assistance to all the pet owners with all the services provided and will give a head start to people who want to take responsibility of taking care of other's pet and it satisfies the much needed requirements.

# FUTURE ENHANCEMENTS

---

## **10. FUTURE ENHANCEMENTS**

With the advancement in technology every now and then, one can understand that this project opens with some of the future enhancements that are listed as below.

- Booking of pet lovers from the website and feedback system.
- Verification badges for certified pet lovers.
- Variation in pet cab services(GPS tracking, types of cabs).
- Auto Disable for users who are not using this application for longer time.

# APPENDIX

## **Appendix A: BIBLIOGRAPHY**

### **BOOK REFERENCES**

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[2] S.L. Pfleeger, Software Engineering – Theory and Practice, Shari Lawrence Pfleeger, second Edition, Pearson Education.

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[3] <https://djangoreadthedocs.io/>

[4] <https://www.businesstoday.in/magazine/the-hub/the-pet-bet/story/376801.html>

[5] <https://www.petboro.in/>

[6] <https://www.anvisinc.com/>

[7] <https://barkntreat.com/>

[8] <https://waggle.in/>



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## **Appendix A: USER MANUAL**

### **[1] Pet Lookout-Login Page**

Step 1: Login page consists of two option login and Sign up now.

Step 2: For registration page, click on Sign up now.

Step 3: Enter email, username, enter password and confirm password.

Step 4: Click register button.

Step 5 : For login , enter username and password.

Step 6: Click Login.

### **[2] Pet Lookout- Manage Users (Admin)**

Step 1: Login as a Superuser(Admin).

Step 2: Click on users and view the registered users.

Step 3: Delete users if needed.

### **[3] Pet Lookout-Users Profile (Admin)**

Step 1: Login as a Superuser(Admin).

Step 2: Click on users profiles tab from top navigation bar and click on the users option.

Step 3: View the created profile and perform action button of deleting , updating the profile if needed.

### **[4] Pet Lookout-Pet Posts of Pet Lovers(Admin)**

Step 1: Login as a Superuser(Admin).

Step 2: Click on pet post tab from top navigation bar and click on pet loverpost.

Step 3: Click on action button of respective pet lover's post and perform the desirable action.

### **[5] Pet Lookout- Pet Cab Booking (Admin)**

Step 1: Login as a Superuser(Admin).

Step 2: Click on Petcabs tab from top navigation bar named PETCAB .

Step 3: Click on the user Petcab to update the status of the booking and change the update message of respective user.

Step 4: Click on Save.

#### **[6] Pet Lookout- License Booking (Admin)**

Step 1: Login as a Superuser(Admin).

Step 2: Click on Licenses tab from top navigation bar named BBMP .

Step 3: Click on the user to update the status of the application and change the update message of respective user.

Step 4: Click on Save.

#### **[7] Pet Lookout- Cakes and Food (Admin)**

Step 1: Login as a Superuser(Admin).

Step 2: Click on Products tab from top navigation bar named SHOP .

Step 3: Click on add product to add a new product or click on the any of the added product to update it.

Step 4: Click on Save.

#### **[8] Pet Lookout- Orders (Admin)**

Step 1: Login as a Superuser(Admin).

Step 2: Click on order updates and update the order status.

Step 3: Click on Save.

#### **[9] Pet Lookout- Pet Lover Profile(User)**

Step 1: Login yourself with the required credentials.

Step 2: Click on Pet lover tab from top navigation bar .

Step 3: Enter all the details and upload your profile picture with a pet .

Step 4 : Click on Update.

**[10] Pet Lookout- Pet Lover Post(User)**

Step 1: Login yourself with the required credentials.

Step 2: Click on my post tab from top navigation bar.

Step 3: Enter working style, interests and a picture with a pet.

Step 4: Click on post.

Step 5: To update posts go to your posts and click on the interests and update it again if needed.

**[11] Pet Lookout- View posts and pet lover's profiles(User)**

Step 1: Login yourself with the required credentials.

Step 2: For post , type anything related to pets in the search box and click search.

Step 3: For pet lover's profiles click on Pet Lover's Profile and enter the type of Pet Lover as a trainer, walker and pet sitter.

Step 4 : For detail profile view click on the pet lover's name on their posts.

**[12] Pet Lookout- Pet Cab(User)**

Step 1: Login yourself with the required credentials.

Step 2: For cab booking click on pet cab from top navigation bar.

Step 3: Enter details such as Name, Source, Destination , Ride day, Ride time and number of travelers.

Step 4: Click Book.

Step 5: To view booking status click on Your booking from top navigation bar and click on the bookings.

Step 6: To delete a particular booking , click on delete and then on confirmation select yes.

**[13] Pet Lookout- BBMP License(User)**

Step 1: Login yourself with the required credentials.

Step 2: For License application click on BBMP License from top navigation bar.

---

Step 3: Enter details such as Name, Pet name, Pet type ,Pet age, Address and upload all your documents.

Step 4: Click on Send Application.

Step 5: To view license status click on Your license from top navigation bar and click on the ID of the license applied by you.

#### **[14] Pet Lookout- Cakes and Food(User)**

Step 1: Login yourself with the required credentials.

Step 2: Click on cakes and food from top navigation bar.

Step 3: View the product and add the product to the cart if needed.

Step 4: To search for a product , type the product name on the search bar and click search.

Step 5: To get a quick view of the product , click on quick view.

Step 6: Click on checkout to place order.

Step 7: Enter details such as Name, address, phone no , email, zip .

Step 8: Click on Place order.

Step 9: To track the order, click on tracker on top of navigation bar.

Step 10: Enter order id and email.

Step 11: Click on track order.