CURAPETS

LET'S SPARKLE ON ANIMAL EYE, SAVE THEIR LIVES



BS(SE) Final Year Project Report

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December 2022

DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE ENGINEERING

Jinnah University for Women

5-C NAZIMABAD, KARACHI 74600

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Project Advisor Dr. Saifullah Adnan

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DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE ENGINEERING

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ABSTRACT

A platform is required where pet's owners, doctors and emergency cases giving access features for their rescue in this web based or mobile based both features are there. Medical records and appointments with doctors will be save and can be share, direct location and proper scheduling we can communicate easily and user friendly interactive with people and convey right information and on right time. For emergency and rescue direct access and for pet owners and doctor proper id will be maintained where we can communicate for rescue and take their help. It's a great initiative people should have something so they can call anytime at any place and get the response as soon as possible and there should be pets hired for this specifically to cater the emergency and abandoned animals we can donate food and other animal supplies. For communication we will use chat, voice call and video call options and for pet owners we suggest a schedule for our pet's diagnoses, their problems and to take their information from their doctor.

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ACKNOWLEDGEMENT

In the name of Allah, the most beneficent and merciful who gave us strength and knowledge to start this project. This proved to be a great experience.

we would like to express our gratitude to our project supervisor Dr. Saifullah Adnan from JUW CS and SE Department, both of them gave us opportunity fulfil this report. We also like to thank Dr. Narmeen Zakaria Bawany and all faculty members. They gave us moral support and guided us in different matters regarding the project.

We also thankful to all teachers of Computer Science and Software Engineering department who taught us and encourage us throughout the year. A note of acknowledgment is due to the family members, who have participated in the review process of this project. We would like to place on record would like to place on record our sincere appreciation for their valuable suggestions and help.

CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

In this project, the CuraPets focuses on healthcare of pets. Pets owners face issues regarding their diseases and problems due to misunderstanding and recommendation of some people treating their loved ones. Due to this careless behavior this situation exceeds more. Secondly, we don't have enough doctors and experts to give health supportive and right advice or opinions. Vaccination and medication giving by some animals to check illness as cat hair-pulling and to treat the situation underlying. Likewise, streets and road animals on streets and roads due to diseases, accidents, serious injuries and wounds people are not giving the right information to rescue teams and it is also very time taken reaching clutches and critical situations. So, need of a schedule of their diet and nutrition requirements or their health records should be timely checked and maintained in order to take care of their health.

A platform is required where pet's owners, doctors and emergency cases giving access features for their rescue in this web based or mobile based both features are there. Appointment lists and emergency call that would be available on that time provide helping and supportive for spreading of mankind, pets and Streets and road animals. For emergency and rescue direct access and for pet owners and doctor proper id will be maintained where we can communicate for rescue and take their help. For communicationwe will use chat, voice call and video call options and for pet owners we suggest a schedulefor our pet's diagnoses, their problems and to take their information from their doctor. Doctor can also give suggestion that if there is no serious condition, he can prescribe somemedicine or in case of emergency he can recommend to admit in hospital where good carewould be possible and can get rid of severe conditions. Medical records and appointments with doctors will be save and can be share, direct location and proper scheduling we can communicate easily and user friendly interactive with people and convey right information and on right time. Providing correct information of experienced and ethical doctors.

Chapter 1. Introduction

Plus, some tips for pets, how to treat a stray like keep some eatables while going out and left- over food. It's a great initiative people should have something so they can call anytime at any place and get the response as soon as possible and there should be pets hired for this specifically to cater the emergency and abandoned animals we can donate food and other animal supplies. Payment and billing methods, medical events their management and announcement.

1.2 PURPOSE

The main purpose of CuraPets

- Design and develop an online application to challenge and eliminate problems encountered in current business operations.
- Establishing and developing an online platform that will allow customers to schedule an appointment with a veterinarian.
- Provide an information system that will help pet owners learn the basics of taking good care of their pets
- It permits you to hold your pet healthy by reminding you to administer and fill up your pet's medications.
- Rescue the pets.
- Communication of Pet Owner and doctor.

1.3 STAKEHOLDERS

The Stakeholders of CuraPets System are following:

User:

Following is the user of CuraPets Application

Pets Owner

Veterinarians

• Developer Team:

Following is the Developer Team of CuraPets Application

Ayesha Wasil

Bisal Shafiq

Ramsha Attaullah Khan

Sana Ahmed

• Supervisor:

Dr. Saifullah Adnan

1.4 BENEFITS

This project would be beneficial for the society. More specifically, it will sort out the health services for the animals which is the critical issue in our country. In general, the significant benefits of this project are:

- This project facilitates to the people who faces the treatment problem for the pets.
- The location of the hospital can be easily found nearby available.
- Communication with doctor and pet owners possible.
- Build trust between doctor and owners.
- This Application provides Doctor Availability and Proper Scheduling.
- Provides Medication, Vaccination, Appointments, and Prescription.
- Diet, Nutrition, Caring for the pets.
- Provide Facility for Emergency Cases in case of any accidents.
- Help for Streets Animals through Rescue Service.
- This project facilities to pet owner to make profile of their pet.
- This project facilities to pet owner to search the best doctor.
- This project facilities to pet owners to book appointment with doctor.
- This project facilities to pet owner to make proper schedules for their pet.
- This project facilities to pet owner to make proper diet plan for their pet.
- This project facilities to pet owner to know the diseases of pet.

1.5 BACKGROUND STUDY

Pet's owners are facing issues regarding health and diseases. Uneducated pet's owners having difficulties and misguidance to understand their animal problems due to which faces more critical situation. Most common problem is that how to maintain health of pets as they don't know How much diet is required for pets. We don't have enough doctors, experts and resources to give health supportive and right advices or opinions.

Chapter 1. Introduction

Animals on streets and roads affected by diseases, accidents, serious injuries and wounds, people are not giving the right information to rescue teams. For the pets there is a need of a schedule of their diet and nutrition requirements or their health records should be timely checked. Pet Owner don't know how to train their pets. Pet owner don't know how to care their pets Pet owner don't know when to visit vet. Pet owner don't know when to feed pet.

This project "CuraPets" focuses on healthcare of pets. It centralizes database which contains the pet records. The system enables Vet to access the database and show the pet details to diagnose their medical condition and write the required treatment. It is a platform where pets owners, doctors and emergency cases provide access for their rescue in both web and mobile applications. Also, the pets owners avail facilities, services, healthcare

advices, feed advice, appointment service and proper scheduling by the use of one application from their smartphones anywhere at any time of the day. This application includes excellent 24/7 healthcare services for the pets. The application will be made available on both the Play Store and the Apple Store.

- Communication with doctor and pet owners.
- Provide trust between doctor and owner.
- Doctor Availability.
- Proper Scheduling.
- Medication, vaccination, Appointments, Prescription.
- Diet, nutrition, caring.
- Emergency Cases.
- Help for Streets Animals.
- Rescue Service.
- Pets Record.

CHAPTER 2

REQUIREMENTS

2.1. FUNCTIONAL REQUIREMENTS

Functional requirements are product features that developers must implement to enable users to achieve their goals. They define the basic behavior of the system under specific conditions. Functional requirements for this application are as follows:

2.1.1 USERS

ADMIN

Admin can manage user accounts, create categories of pets, and upload / replace some simple worrying statistics related to them. Admin can add nearby hospital details andlocation, Add rescue's organization details.

• Pets Owner

Pets owner are registered so registered consumer can create pet profile and get admission to all capabilities of the app as cited underneath

DOCTOR

Doctors are registered in application to perform their duties. Such as pet's care, provide proper information about pet health to pet owner, give proper treatment to pet.

2.1.2 Training

CuraPets application also provides training to their user by sharing the videos with fruitful content. i.e., how to feed pets? How to take care their pets? How to make themactive?

2.1.3 LOCATION

CuraPets facilitates the user different locations of hospitals, their contacts and timing. According to their area they can easily select their hospital.

2.1.4 NOTIFICATION

CuraPets also inform user related to new diseases, which is helpful for pet owner that they can follow precautions and can save the lives of their pets from the disease.

2.1.5 COMPLAIN

CuraPets provides the facilities to the users that they can do complain if they are facing any kind of problem related to pets. i.e., High ratio in street dogs.

2.1.6 SCHEDULE

CuraPets provides the facilities to the users that they can make schedule of pet and save the schedule. Pet owner list the planned activities for pet to be done at or during a particular time and get the notification. Such as pet owner schedule the time to play and train and time to go out.

2.1.7 APPOINTMENT

CuraPets provides the facilities to the users that they can search and select best doctor and book appointment online or offline with the doctor.

2.1.8 DIET PLAN

CuraPets provides the facilities to the users that they can make prepper the diet plan for pet according to the doctor.

2.1.9 Doctor

CuraPets provides the facilities to the users that they can search doctors, book appointment, or consult online with the top specialist doctors. Doctor give proper prescription for pets.

2.1.10 RESCUE

CuraPets provides the facilities to the users that they can select the rescue team from the list and call the rescue team to rescue the Injured pets

2.2. Non-Functional Requirements

Non-functional requirements (NFRs) define system attributes such as security, reliability, performance, maintainability, scalability, and usability. Non-functional requirements for this application are as follow:

2.2.1 PERFORMANCE/RESPONSE TIME REQUIREMENTS

The response time of the application will be carefully considered during the application development. The registration of users will be smooth throughout as it will be based off a real time framework.

2.2.2 RELIABILITY REQUIREMENT

It describes the possibility that a user will have access to the application at a time. The system effectively avoids downtime. The project mostly focuses on energy consumption and availability of the network as a whole. The application interface will always be available.

2.2.3 USABILITY REQUIREMENT

The system should be easy to use and easy to learn in every aspect. The new users should get used to in the system fast as possible because the system has easy language and fast feature to use.

2.2.4 MAINTAINABILITY REQUIREMENT

The application can be easily upgraded to the latest standards and frameworks. The system offers the efficiency for data backup. The system will track every mistake as well as keep a log of it.

2.2.5 RECOVER REQUIREMENT

If any registered user forgot their account or password, they can recover their account by clicking on forgot password. Email must be answered before the recovery link can be sent.

2.2.6 AVAILABILITY

This application includes excellent 24/7 healthcare services for the pets. Describes the possibility that a user will have access to the system at a particular point in time. Availability defines amount of time system is running.

2.2.7 PORTABILITY

User can also easily access this application on another platform.at any time form anywhere. Portability is the type of non-functional requirement. Portability is the degree to which software running on one platform can easily be converted to run on another.

2.2.8 SECURITY REQUIREMENT

The system shall protect the data and services from unauthorized access. The system shall provide authentication. Security is most important because system have sanative and important data. Without OTP code verification and email verification user can

not register in this application.

2.2.1. PATIENT IDENTIFICATION

The system needs the patient to recognize herself or himself using the OTP.

• LOGIN ID

Any users who make use of the system need to hold a Login ID and password. User can not register without authentication. Unauthorizes person cannot access this app.

ADMINISTRATOR RIGHTS

The administrator can view as well as alter any information in the CuraPets application. Admin can manage user accounts, create categories of pets, and upload/replace some simple worrying statistics related to them. Admin can add nearby hospital details and location, Add reque's organization details.

DATABASE

Database have information such as Pet Record, Doctor and Pet Owner details, Training videos, Rescue details, Hospital details so it is important to secure the database and hide personal information. Any unauthorized changes in database that might leads dangerous failure of the system.

CHAPTER 3

ANALYSIS AND DESIGN

3.1 SYSTEM ARCHITECTURE WITH DIAGRAM

In this architecture diagram the complete flow of project is shown which illustrates the proposed system architecture in which the pet's owner, doctor and Admin can easily interact with the system, CuraPets which is consisting of website and mobile application. Comprises of key components: Application Server, Web Server and Database Server. Application Server consists of Schedule, Prescription, Training Videos, Location, Chat, Audio and Video. Web Server consists of Home, Features, About Us, Contact Us and Create Account pages. Firebase DB. All the written features will be saved in database. This architecture diagram shows the functionality of CuraPets. That is, the work flow of the project, the pet owner use CuraPets for the animal or pet. CuraPets help to maintain the health of the pets and animals and provides the communication between doctor and pet owner. Pet owner portal and doctor portal provides better support and Admin portal maintain the CuraPets Functionality. Web server provides the website which is based on information about CuraPets and application server provides the Application to the users of CuraPets.

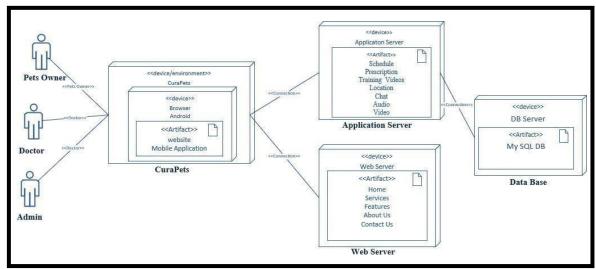


FIGURE 3.1. ARCHITECTURE DIAGRAM

3.2 Entity Relationship Diagram

An entity-relationship diagram (ERD) shows graphical representation and relationship with different entities. Pet owner which included owner id, owner name, email address, phone number, date of birth and password have one to many relationships with pets including pet name, pet id, gender, age, weight, breed, species. Appointment for one or more pets can keep the information who requested, the owner of the pet and the appointment is held to which vet doctor, time, date, charges, status, treatments and prescription. Also, one to many relations with schedule and hospitals. Schedule consisting of time duration, day, hospital id and doctor id. Hospitals for hospital name, hospital id, city and contact.

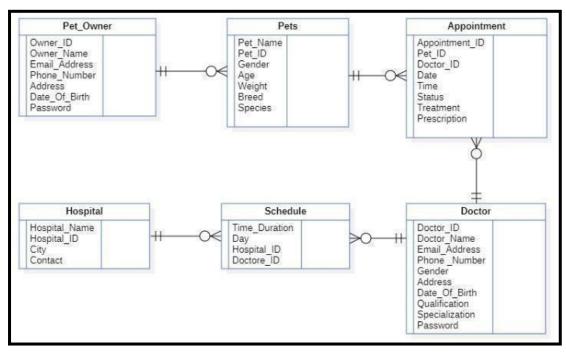


FIGURE 3.2. ENTITY RELATIONSHIP DIAGRAM

3.3 PROJECT FLOW DIAGRAM

A flowchart to understand and visualize the methodology used to manage the project. This shows the flow of the Android application. Users can be able to use and understand the flow of the features.

The Project Flow Diagram is providing the flow of CuraPets. It is based on Doctor and Owner Portal and the owner and the doctor create their accounts and get access of CuraPets with the help of create an account and login to the CuraPets. Then owner maintains the schedule of their pets and doctor provides prescription after the owner get appointment for the doctor. Also, CuraPets provide the audio, video and chat functionality for the communication between doctor and owner.

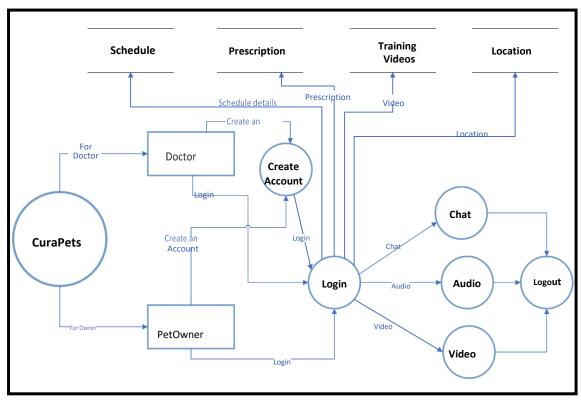


FIGURE 3.3. PROJECT FLOW DIAGRAM

3.4 USE CASES

This use case diagram is a graphical representation of the interactions between the elements. Including the users within the system and summarize details of it. Categorizes system requirements, explain and analyze methodology to recognize system. The main users of this use case diagram are: Doctor, Pet's Owner. And the main function of the CuraPets which are: Sign in, chat, video call, audio call, Prescription, diet plan, Schedule, Rescue, Complain, Appointment.

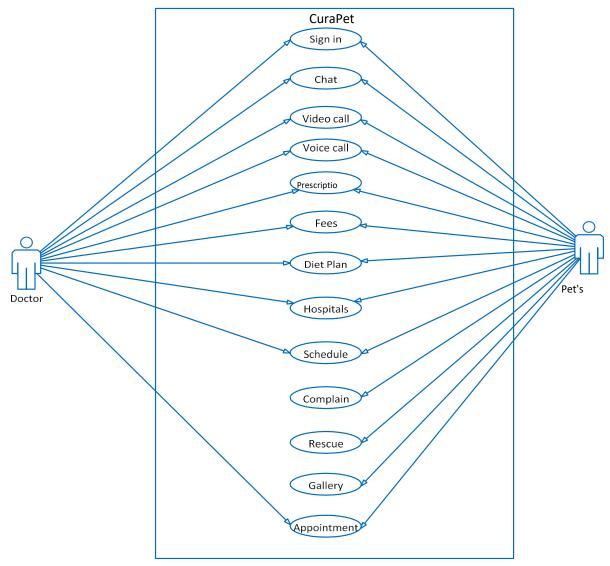


FIGURE 3.4. USE CASE DIAGRAM

3.5 ACTIVITY DIAGRAM

Figure 3.5 presents the system activities flow. In terms of development and activities this method used to document system behavior. For the Pet Owner Login and Registration, the overall workflow of the login and registration uses by symbols inactivity diagram. If a new user uses an application, it should be registered first and then can easily signup and if it is not a new user it can directly login successfully.

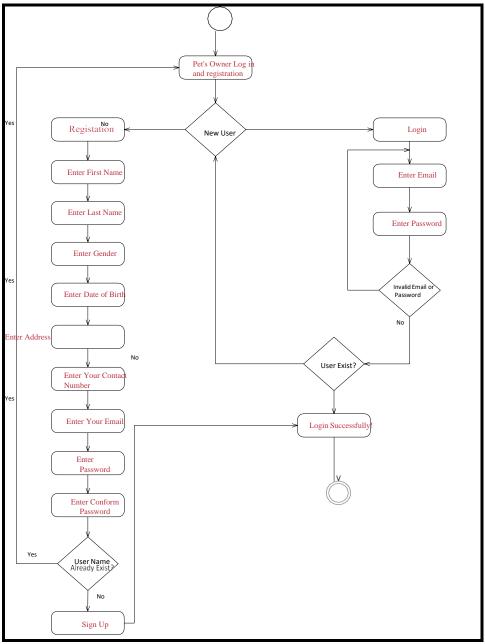


FIGURE 3.5. ACTIVITY DIAGRAM 1

Figure 3.6 shows that for Per Owner Login Check Login ID and Password if a user provides invalid ID and Password, it should be redirect to the login page and if the user gets successfully provided Login ID and Password, user should be able to access functionalities of Chat, Audio Call, Video Call, Training Videos, Check Schedule, Check Appointment, Check Hospital Information, Check Doctor Information, Pay Checkup Fee, and can see Notifications. After that user can logout of the system.

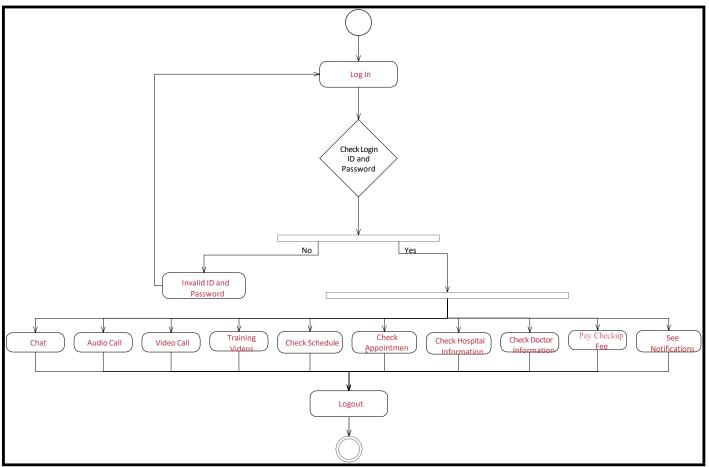


FIGURE 3.6. ACTIVITY DIAGRAM 2

Figure 3.7 presents the system activities flow. In terms of development and activities this method used to document system behavior. For the Doctor Login and Registration, the overall workflow of the login and registration uses by symbols inactivity diagram. If a new user uses an application, it should be registered first and then can easily signup and if it is not a new user it can directly login successfully.

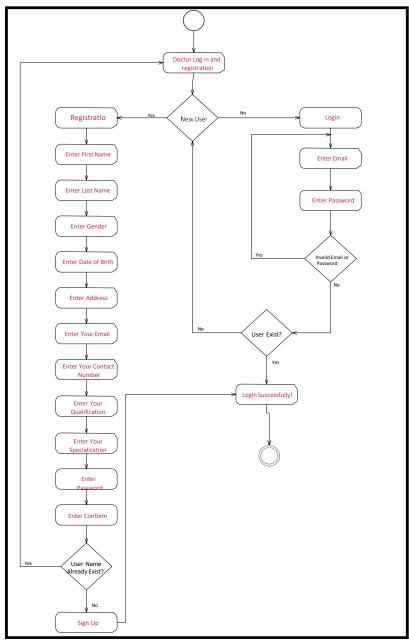


FIGURE 3.7. ACTIVITY DIAGRAM 3

Figure 3.8 shows that for Doctor Login Check Login ID and Password if a user provides invalid ID and Password, it should be redirect to the login page and if the user gets successfully provided Login ID and Password, user should be able to access functionalities of Chat, Audio Call, Video Call, Training Videos, Check Schedule, Check Appointment, Check Hospital Information, Check Doctor Information, Pay Checkup Fee, and can see Notifications. After that user can logout of the system.

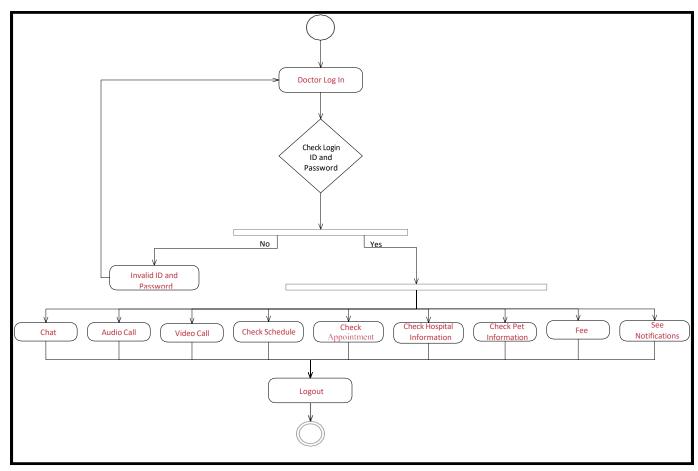


FIGURE 3.8. ACTIVITY DIAGRAM 4

3.6 USER INTERFACE DESIGN

The user interface is based on Mobile Application and Informative Website of CuraPets.

3.6.1 MOBILE APPLICATION

This is the dashboard screen of our application in the home screen The main features of the system include:

- My Pet, Doctor for the pets
- Maintaining the proper Scheduling for the pets.
- Appointment includes veterinary scheduling for managing by choosing theright time according to the need of the appointments for the pets.
- Prescription as provided by the doctor for pet would be refer to the petowner.
- In Complain, the users to complain if they face any issue or excess of wild animals in their area like dogs.
- Rescue Services for emergency and accident cases of the pets or any other animals on the roads or streets.
- Application will send Notifications at time for the execution of pet-care task and to notify any information or disease.



Figure 3.9. Application User Interface

3.6.1 WEBSITE

The website screen contains: Home page for the information about the website. Features of the system. Create account for the direct access and connection to the application. About Us page. Contact Us if there is any problem for the modification of the application.

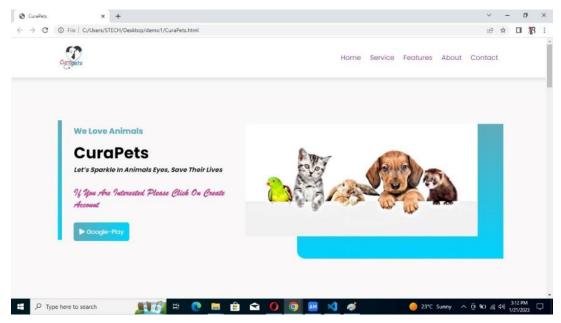


Figure 3.10. Website User Interface

CHAPTER 4

PROJECT PLAN

4.1 Process Model (Agile)

The Process Model used in CuraPets is Scrum which is the flavor of Agile.

SCRUM

Scrum is an agile software development process, best suited for projects with rapidly changing requirements.

4.1.1 SCRUM ROLES

There are following scrum roles which are following:

• SCRUM MASTER

Dr. Saifullah Adnan was the Scrum Master for this project.

• SCRUM TEAM

There were no predefined roles in our team but people tended to stick to the modules they developed and became 'experts' in their areas. Each and every task was reviewed by another team member, one that was not originally involved.

• SPRINT PLANNING MEETING

Most of the time our sprint planning meetings went as planned, though sometimes the product owner was unavailable. In these cases, the meeting simply needed to be scheduled one or two days later. These extra days would come in handy for cleaning up what we had produced the earlier sprint.

• DAILY SCRUM MEETING

Our daily Scrums took place at 10.05. The Scrum Meeting was probably of 10 to 15 minutes in which we discuss the previous day tasks and decide which task to do the next.

• SPRINT REVIEW MEETING

Our review meetings were always held on Tuesday. The project team members demonstrate new features on a live system, and answer any questions that might arise during the demo to the Product Owner. Usually, team spend on or two days before the demo checking if everything was working, and run test demonstrations internally.

4.1.2 USER STORIES

In CuraPets System, two users are involved. Each users require different functionality according to their need.

TABLE 4.1. USER STORIES

No.	As a I want to So that			
			•••	
1	Admin	Use this system	I can manage user's account.	
2	Admin	Need this system	I can create categories of pets and update	
			and replace information related to them.	
3	Admin	Use this system	I can add nearby hospital details and location.	
4	Admin	Need this system	I can add rescue organization details.	
5	Pet Owner	Need CuraPets system for my pet.	I can manage proper care for my pets.	
6	Pet Owner	Use CuraPets system for pet schedule purpose.	I can maintain proper schedule for my pets.	
7	Pet Owner	Use this system get appointment online for my pet.	I can take my pet for checkup.	
8	Pet Owner	Use chat option for CuraPets system	I can connect the doctor to discuss about my pet health.	
9	Pet Owner	CuraPets system for maintain medication for my pets.	I can give medicines, vaccination for my pets timely.	
10	Pet Owner	Need CuraPets system for my pethealth.	I can manage my pet health through this system.	
11	Pet Owner	Use CuraPets System for myPets	I can manage my pet profile.	
12	Pet Owner	CuraPets for see the Hospital Location	I can visit nearby Pet's hospital	
13	Pet Owner	CuraPets for street animals.	I can rescue street Animals.	
14	Pets Owner	CuraPets for complaint Purpose.	I can complaint the issue regarding street dogs.	
15	Pet Owner	CuraPets for my pet schedule.	I can manage proper plan for it.	
16	Pet Owner	Use CuraPets	I can use guideline for my pet.	
17	Doctor	Need CuraPets for my patient.	I can check animal's health.	
18	Doctor	Use this system take appointment online my Patients.	I can check my patients properly.	
19	Doctor	Use CuraPets System.	I can provide better treatment for my patients.	

20	Doctor	Need this system.	I can manage all appointment timely.
21	Doctor	Need CuraPets for	I can maintain and provide better
		properSchedule.	healthfacilities.
22	Doctor	Use this System.	I can discuss pet health to their owner.
23	Doctor	Need CuraPets System for	I can provide health treatment for
		Road and Streets Animal.	thoseanimals who suffer from many
			diseases.
24	Doctor	Use CuraPets System to	I can meet with pet on time.
		approve pet Owner Visit.	
25	Doctor	Use CuraPets for the purpose of	I can see animals happy.
		curing Animals	
26	Doctor	Use CuraPets for Pet's health	I can Cure animals and pets.
		disease's	_

4.1.3 PRODUCT BACKLOG

Product backlog In, the item build-up is made by the portrayed client stories for example elements and capacities in Table 4.2, depending upon significance, the group focused on among the narratives subsequent to adding them to the backlog as displayed in Table 4.2.

Table 4.2. Product backlog

No	Requirement	Category	Status	Priority	Estimated Time
1	Project Planning	Non- Functional Requirement	Completed	High	30days
2	Collect Information	Non- Functional Requirement	Completed	High	15days
3	Create Project Logo	Non- Functional Requirement	Completed	Low	7days
4	Design Project Prototype	Non- Functional Requirement	Completed	Low	10days
5	Log in / Registration	Functional Requirement	Completed	High	90days
6	Implement Main Functionality	Functional Requirement	In Progress	High	100days
7	Project Security	Non- Functional Requirement	Completed	High	60days
8	Project Integration	Non-Functional Requirement	Incomplete	High	60days
9	Project Testing	Non- Functional Requirement	Incomplete	High	30days
10	Project Released	Non- Functional Requirement	Incomplete	High	30days

4.1.4 SPRINTS BACKLOG

The Scrum Master created sprint backlog in which a list of tasks identified by the Scrum team to be completed during the sprint planning. The development team will modify the Sprint Backlog throughout the Sprint. Team members work according to plan and knowing more about the work needed to accomplish the Sprint goals. Table 4.3. shows the sprint backlog that can be changed depending upon the requirements and condition of the project.

TABLE 4.3. SPRINT BACKLOG

Priority	Product Backlog Item	User Story#	Estimated Hours	Developer	
1	Interface Design	03	50		
	Create Screen Layout		20	Avecha	
	Select Colors Combination and Themes		20	Ayesha Bisal	
	Write Program Code		10		
2	Data Base	02	140		
	Insert		28	Ayesha	
	Update		28	Bisal Ramsha Sana	
	Delete		28		
	Add		28		
	Test database		28		
3	Programming Code	03	200		
	Write Code		50	Ayesha	
	Remove Errors		50	Bisal	
	Update Code		50	Ramsha Sana	
	Add Code		50	Salia	
4	Mange Project	03	68	Ayesha	
	Project Testing		34	Bisal	
	Project Improvement		34	Ramsha Sana	

4.1.5 SPRINTS PLANNING

The table 4.4. Show the Sprint Planning of CuraPets Project.

TABLE 4. 4. SPRINT PLANNING

TABLE 4. 4.SPKINT FLANNING								
Project I Name	Project Manager		Start Date	End Date		Overall Progress		
CuraPets D	r. Saifullah	Adnan	01-02-2022	31-1	2-2022	Up to the Mark		
Project CuraPets developers are mobile application and website. Deliverables								
Scope Statement	which is faces the veterinal Prescript services	The scope statement is, specifically, to sort out the health services for the anima which is the critical issue in our country. This project facilitates to the people who faces the treatment problem for the pets. Provides communication between veterinarian and pet owner. Including Medication, Vaccination, Appointment Prescription, Facility for Emergency Cases in case of any accidents and Rescue services available, Training videos to understand the better healthcare of pets and						
Task Name	Start Date	End Date	handling rep Team	Sizing	Î		Priorit y	
				Sprint 1	1			
SRS Documentati	28-02- 2022	19-03- 2022	Ayesiia Digal	03	Project	t Requirement should be properly match	Heigh	
		•	1	Sprint 2				
Project Prototyp	e 21-03- 2022	15-04 2022	Ayesha	03		Project Prototype Which the real form of a system	Heigh	
Sprint 3								
Initialize the Project 18-04- 14- Bisal Project Projec		alize the design of the jectand working on lication andwebsite	Heigh					

Chapter 4. Project Plan

Sprint 4								
Testing	15- 11- 2022	15- 12- 2022	Ayesh aBisal Ramsh aSana	03	To Integrate and test the features of Application, website Animation video	Heigh		
Sprint 5								
Deployment	15- 12- 2022	30- 12- 2022	Ayesh aBisal Ramsh aSana	03	To Create Project Documentationand Project Report			

Task Name	Assigned To		
Sprint 1- Month February 2022	Requirement Gathering		
Gather information about implementing techniques	Sana, Ramsha		
Gather information about tools and technologies	Ayesha, Bisal		
Gather information about Entity relationship	Sana, Bisal		
Month March 2022	Documentation		
Project Report	Ayesha, Bisal, Ramsha, Sana		
Sprint 2- Month March 2022	Design Prototype		
Create a Project Prototype	Ayesha, Bisal, Ramsha, Sana		
Sprint 3- Month April 2022, November 2022	Implementation of Project Application and Website		
Project Application Phase 1	Ayesha, Bisal, Ramsha		
Project Application Phase 2	Ayesha, Ramsha		
Project Application Phase 3	Ayesha, Bisal, Ramsha, Sana		
Project website Phase 1	Bisal		
Project website Phase 2	Bisal		
Sprint 4- Month November 2022, December 2022	Project Testing		
Test the Application and Integration, Animation video	Ramsha, Sana		
Sprint 5- Month December 2022	Deployment		
Project Documentation and project Report	Ayesha, Bisal, Ramsha, Sana		

4.1.6 SPRINT MARK SHEET

Sprint Mark sheet is an assortment of sprint characteristics, for example, sprint name its span number of stories arranged in this term No. of stories finished and conveyed as well as No. of story point finished and conveyed it consist of this data as displayed in Table 4.5.

TABLE 4.5. SPRINT MARK SHEET

Sprint	Sprint Duration	No. of	No. of	% Of Stories	No. of Story	No. of	% Of
Name		Stories planned	Stories delivered	completed	points planned	Story points	Story points
						delivered	completed
Sprint1	28-Fed-2022, 19-March- 2022	03	03	100%	03	27	100%
Sprint 2	21-March- 2022, 15-April- 2022	03	03	89%	06	20	73%
Sprint 3	18-April- 2022, 14-November- 2022	03	03	80%	08	30	80%
Sprint 4	15-November- 2022, 15-December- 2022	03	03	100%	08	16	50%
Sprint 5	15-December 2022, 30-December- 2022	03	03	100%	05	07	50%

4.1.7 SPRINTS SIZING

In Sprint Sizing we map our experience regarding Story Points since Sprint term changes as per the intricacy of undertaking module and need outstanding exertion.

TABLE 4.6. SPRINT SIZING

	Mapping to
Story points	Hours
0	0-3 hours
1	4-8 hours
2	9-16 hours
3	17-32 hours
4	33-64 hours
5	65-128 Hours

4.2 TIMELINE WITH MILESTONES

The table 4.7 Show the Milestones Timeline of CuraPets Project.

Table 4.7. Timeline

Elapsed time since start of the project	Villagtona	Deliverable	
January	Project planning	Software requirementSpecification	
February	Project planning and Analysis	Design Document	
March	Designing phase	User Interface, Create Data Base	
April	Feature of Application	Working on Owner Portal	
May	Further action applied with	Working on Doctor Portal	
Jun	Application Development	Working on Mobile Application	
July	App Development	Working on Features of Mobile Application	
August	Web and App Development	Working on more Features of Mobile Application and Website	
September	Website Development	Website	
October	Working and resolver Application problems	Application	

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	Working and resolver Application problems, createAnimation video	Application and Animation videos
December	Project Documentation	Project Report

CHAPTER 5

TEST PLAN

5.1 TEST CASES

The table 5.1 Show the test cases of CuraPets Project.

TABLE 5.1. TEST CASE

Test Scenario	Test Steps	Execution Result	Actual Result	Pass/Fail			
Positive Testing							
Check Login Valid data	Go To:CuraPets Click Email and Passwordbox click submit	Enter Email: abc@gmail.com Enter Password: abc123 Click submit	Login Successful	Pas s			
Check Valid Operations	Add Pets Information Remove Pets	Add Successfully Remove Successfully	_				
	Information Update Pet Information	Update Successfully					
	Rescue Doctor information	Search Successfully Work Successfully Work Successfully	- Expected - Result	Pass			
	Location	Work Successfully					
	Get Appointment Conform Appointment	Work Successfully Work Successfully					
	Diet Plan	Work Successfully					

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Negative Testing						
Check Login Invalid Email and Invalid Password	Go To: CuraPets Click Email and Password box click submit	Enter Email: abc#gmail.com Enter Password: abc!123 Click submit	Not Expected Result	Fail		
Check Login Invalid Email and Valid Password	Go To:CuraPets Click Password box click submit	Enter Email: abc#gmail.com Enter Password: abc123 Click submit	Not Expected Result	Fail		
Check Login valid Email and Invalid Password	Go To: CuraPets Click Email and Password box click submit	Enter Email: abc@gmail.com Enter Password: abc123 Click submit	Not Expected Result	Fail		
Check Login Invalid Email and Invalid Password	Add Pets Information Remove Pets Information Update Pet Information Search Pets Rescue Doctor information Location Get Appointment Conform Appointment Diet Plan	Not-Add Successfully Not Remove Successfully Not Update Successfully Not Search Successfully Not Work Successfully	Not Expected Result	Fail		

5.2 AUTOMATED TESTING TOOLS

The following testing tools are used in CuraPets.

5.2.1 SELENIUM

Selenium is a free (open source) automated testing framework used to validate web applications across different browsers and platforms.

5.2.2 APPIUM

Appium is an open source, cross-platform automation testing tool. It is used to automate test cases for native, hybrid and web applications.

5.2.3 KATALON STUDIO

Katalon Studio is a comprehensive toolset for web and mobile app automation testing. This tool includes a complete package of powerful features...

5.2.4 CUCUMBER

Cucumber is a testing tool that supports Behavior Driven Development (BDD). It offers a way of writing tests that anyone can understand.

CHAPTER 6

IMPLEMENTATION DETAILS

6.1 TOOLS AND TECHNOLOGY

The Following Tools and Technology used in CuraPets.

6.1.1 VISUAL STUDIO CODE

Visual Studio Code is a source code editor redefined and optimized for building and debugging modern web applications. Visual Studio Code, also known as VSCode, developed by Microsoft for Windows, Linux, and macOS.

6.1.2 ANDROID STUDIO

The fastest developer tools for building apps and accelerate performance. With a code editor, IDE, flexible build system, real-time emulators. Creating great code. Create rich experiences. Code with confidence.

6.1.3 VISIO

Microsoft Visio is a vector graphics and diagramming application and it is a part of Microsoft Office family, that includes templates that allow us to create flowcharts, organizational charts, and more.

6.1.4 STAR UML

Star UML is a software engineering tool for systems modeling using the Unified Modeling Language, as well as Systems Modeling Language, and classical modeling notations. It is published by MKLabs and is available on Windows, Linux and MacOS.

6.1.5 ADOBE ILLUSTRATOR

Adobe Illustrator is a graphics software that lets you reduce or enlarge your artwork. Easily create professional vector art, Transfer your unique drawings and designs from paper to screen.

6.1.6 JUST IN MIND

Just in mind is a UX and UI design platform for creating prototypes.

6.1.7 FIREBASE

Firebase helps you build and run successful apps. Backed by Google, loved by developers. Accelerate app development with a fully managed backend infrastructure.

6.1.8 JAVA

Java is a high-level programming language and computing platform, Java is used to develop mobile apps, web apps, desktop apps, games and more.

6.1.9 PHP

A popular scripting language used especially for web development. Php is fast, flexible and practical, and a powerful tool for making dynamic and interactive Web pages.

6.1.10HTML

HTML is a markup language it is widely used for Web pages. With the help of HTML, you can easily create your own website This can be supported by technologies such as cascading style sheets and scripting languages such as JavaScript.

6.1.11 CSS

CSS is a style sheet language. CSS describes how HTML elements are to be displayed on screen.

6.1.12 BOOTSTRAP

Bootstrap is open-source framework for CSS.it is used for faster and easier web development.

6.1.13MS WORD

In this project MS word is used to create project documentation. Word is developed by Microsoft.

6.1.14 POWER POINT

In this project Power point is used to create project presentation. Power point is developed by Microsoft.

6.2 DATA DICTIONARY

Database (XAMPP): To maintain data in a relational database and provides a graphical interface for SQL (phpMyAdmin).

Firebase: For Mobile Application / Firebase.

6.3 VERSION CONTROL

GitHub is mainly a hosting platform for hosting Git repositories online.

Project GitHub link: https://github.com/Ayesha-p/Fyp_Project_CuraPets.git

6.4 WEB APIS / WEB SERVICES

Google API: Google Maps for find the nearby Veterinary Hospital.

Google APIs: Interface which allow communication and integration to other services.

6.5 WEBSITE DEVELOPMENT

For the development of informative website, the following languages are used:

6.5.1. JAVA

Java is a high-level programming language and computing platform, Java is used to develop mobile apps, web apps, desktop apps, games and more.

6.5.2. PHP

A popular scripting language used especially for web development. Php is fast, flexible and practical, and a powerful tool for making dynamic and interactive Web pages.

6.5.3. HTML

HTML is a markup language it is widely used for Web pages. With the help of HTML, you can easily create your own website This can be supported by technologies such as cascading style sheets and scripting languages such as JavaScript.

6.5.4. Css

CSS is a style sheet language. CSS describes how HTML elements are to be displayed on screen.

6.5.5. BOOTSTRAP

Bootstrap is open-source framework for CSS.it is used for faster and easier web development.

6.6 MOBILE APPLICATION DEVELOPMENT

The following tools is uses in CuraPets:

6.6.1. ANDROID STUDIO

The fastest developer tools for building apps and accelerate performance. With a code editor integrated development environment (IDE), flexible build system, real-time emulators. Creating great code. Create rich experiences. Code with confidence.

6.7 **DEPLOYMENT**

At first, we will collect information relevant to the veterinary hospitals which are offering treatment for the pets. Along with that, we will also get the other relevant information from hospitals that include the doctors/specialist's information, hospitalsname, location etc. After the collection of this information, we will also investigate the common health issues in pets by concerning with doctors as well as we will also do some sort of research from internet in order to provide basic knowledge to the pet owner throughour application and web pages.

In the next phase of our project, we will design the website layout in Visual Studio Code by using html, CSS for frontend and JavaScript, Php for Backend as well as the android application through android Studio which includes the aforementioned features. Additionally, design a data base for website in SQL (PhpMyAdmin) and for mobile App in SQLite for hospitals as well as the pet owner. Using Google Map API or Place API in this application for hospital location purpose and website domain will be purchased from some well-known resources and will be deployed in our project. For Animated Training Videos we used Adobe After effects or Premium Pro.

6.7.1. Website Hosting

We use 000webhost for web hosting our website. these is a popular unfastened hosting company. In 000webhost free hosting, you will get a cPanel, a WordPress carinstaller, website builder tool, etc. The website hosting platform supports Php, MySQL, CSS, JavaScript, and so forth. and additionally, there no need to region undesirable

commercials by way of the service issuer (i.e., advert-loose web hosting). additionally, the 000webhost gives you secured provider as its servers use advanced firewalls with DDoS safety that ensures the safety of your internet site.

6.7.2. MOBILE APPLICATION DEPLOYMENT

In our project CuraPets we develop a mobile application. Which is easy to use. In this application we provide many features for users in which includes list of hospitals near to your location, lists of doctors available, schedule, rescue service, 88complain, notification provides to the users. We deployed a mobile application for users which is easy to use and easily accessible for everywhere.

CHAPTER 7

CONCLUSION AND FUTURE WORK

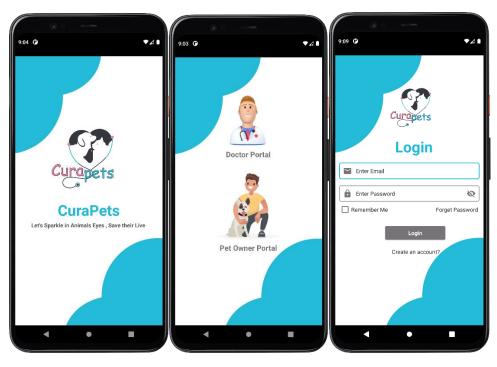
The purpose of this project is to analyze the approach and to create a working system. The system design and implementation on the applied technologies is revealed in detailed and discussion of furthermore development. With the most trending technologies, the system enables Vet to access the database and show the pet details to diagnose their medical condition and write the required treatment. Pet's owners, doctors and emergency cases access and also, the pets owners avail facilities, services, healthcare advices, feed advice, appointment service and proper scheduling by the use of one application from their smartphones anywhere at any time of the day. This includes information through website and application includes excellent 24/7 healthcare services for the pets. The application will be made available on both the Play Store and the Apple Store. In terms of future work, new features could be added. However, like providing funding for safety against domestic violence and homeless pet-friendly shelters. The feature of buy and sell, also by making it an online pet store.

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APPENDIX A

SCREENSHOTS



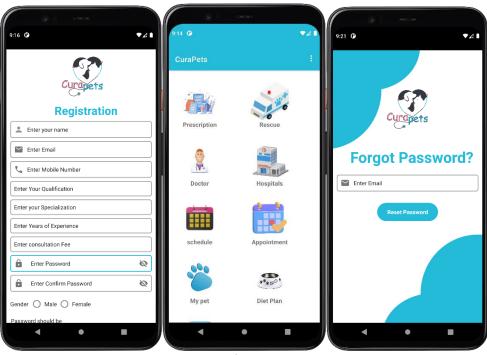
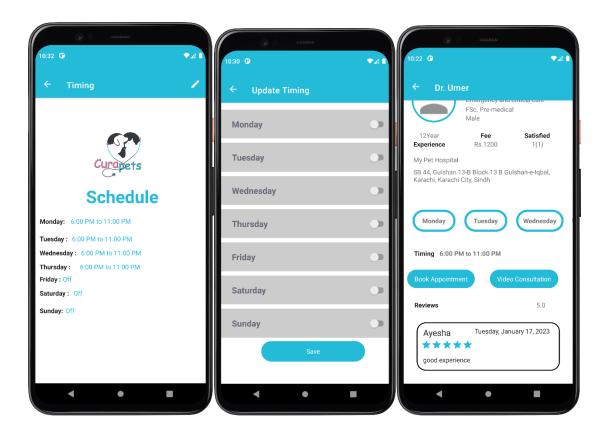


FIGURE 11. SCREEN LAYOUT 1



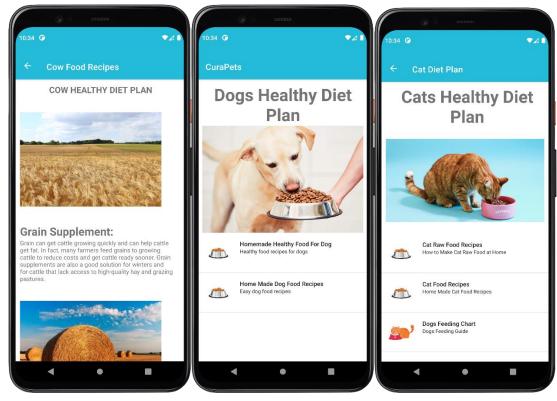


FIGURE 12. SCREEN LAYOUT 2

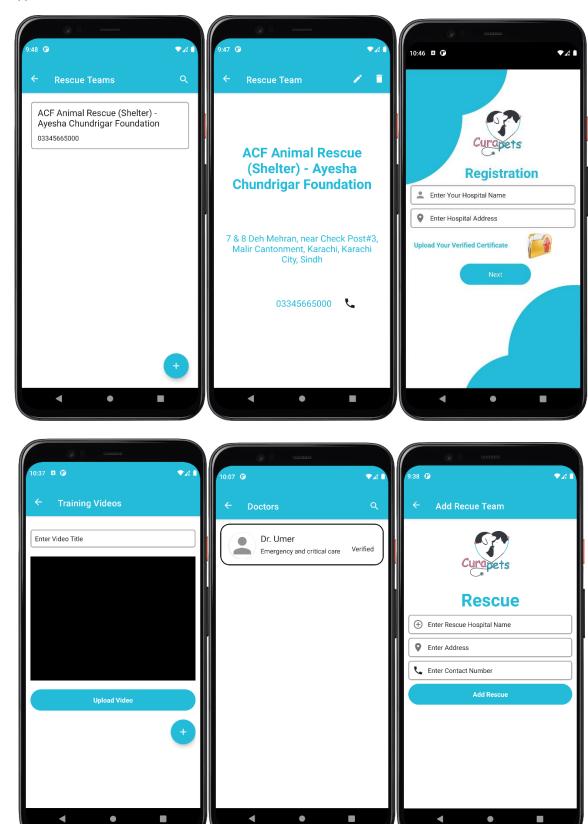
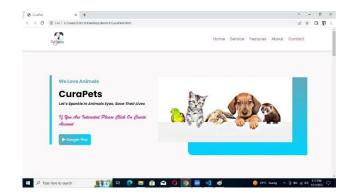
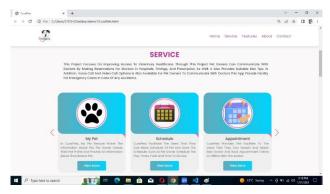
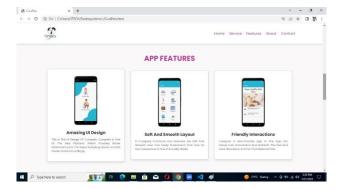


FIGURE 13. SCREEN LAYOUT 3

Appendix A











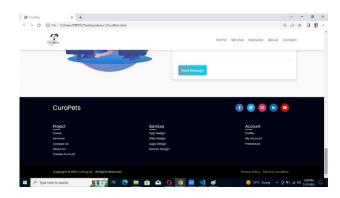


FIGURE 14. SCREEN LAYOUT 4

APPENDIX B

ABBREVIATION

- CuraPets: Pets Care
- Google APIS: google application programming interfaces
- SQl Lite: Structured Query Language
- UFT: Unified Functional Testing
- QTP: Quick Test Professional
- HTML: Hyper Text Markup Language
- CSS: Cascading Style Sheets
- IDE: Integrated development environment
- UML: Unified Modeling Language
- UX: User experience
- UI: User interface
- VS Code: Visual Studio Code
- OTP: One Time Password