PETS CRACKER

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Session	**2017 - 2021**
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BS(HONS)
IN
COMPUTER SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

GC UNIVERSITY LAHORE

PETS CRACKER

Submitted to GC University Lahore in partial fulfillment of the requirements for the award of degree of

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IN
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Declaration

We, ... students of **BS(Hons)** in the subject of **Computer Science** session **2017-2021**, hereby declare that the matter printed in this thesis titled, **PETS CRACKER** is my own work and has not been printed, published and submitted as research work, thesis or publication in any form in any University, Research Institution etc in Pakistan or abroad.

Date: _____ **Signatures of Deponent**

Research Completion Certificate

It is certified that the research work contained in this thesis titled **PETS CRCKER** has been carried out by **Muhammad Waleed** Roll. No **0144-BSCS-17** and **Farhan Aslam** Roll. No **0093-BSCS-17** under my supervision.

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Dedication

My research work is dedicated to my family and my honorable teacher ***Sir Yahya Khurram*** *who encouraged and helped me to complete my research in the area of formal modeling and formal verification related to computer science.*

Abstract

The growth of the internet over last 10 years as a medium of information and as a communication technology has provided the opportunity for selling products and services online directly to the the public.This thesis looked into how websites were viewed from the managerial side of the veterinary practice by conducting in-depth interviews with Online Content Sellers find it important to use everything available to them to gain the trust of new potential clients, they also wanted to start.

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Chapter 1

Introduction

1.1 Introduction

1.1 Overview

Pet Cracker is a web-based project built using **ASP.NET CORE** and **SQL Server 2017** as a Database. The visitor on the website will have the option to buy pets from our store online or they can also have an option to buy pets from the registered users on our website that will post the advertisement of their pets to sell. Other than Pets there will be other categories like Accessories, Food, etc. that a buyer can buy. The registered user will also have a feature to make an appointment with our static veterinarian. This Web Application will also have a little feature of inventory Database that will manage the sellers profile like their sold items, profits, loss, and best product.

1.2 Problem Statement

This is a work considering the situation nowadays where there is no proper system to fulfill the demand of pets. It is always difficult to get desired pet in case of emergencies. Our goal is to design such a web app which will connect people with us and we will help them according to their requirements directly.

1.3 The Idea

In the previous semester we have studied programming web engineering. After studying that subject our interest has been tilted towards this field of computer science. We had come up with an idea to work on social web application.

1.4 Objective of project

To provide a new platform for pet sellers and buyers. 1-To reduce the distance and time searching for pets/food/accessories. 2-To make a virtual or physical appointment with the veterinarian.

1.5 Purpose

The main aim is to make easy to take care of your pets. Now a day's everything is online but still when it comes to pet facilities there are very less options available on internet. This will do ease to those who have pets and consider it very difficult to take them for regular checkups and different medications. This document has shown use cases and different scenarios that how this website will work under different facilities, by using data modules and verification.

1.6 Scope There is a wide scope of development of this project. Because it resolves two very troublesome problems.

1-Availability: as many of people do not know that where to buy pets/food/accessories. Now people can easily search for it. **2-Time and distance**: People do not need to go out and search for the pets. They can get them online while sitting on their couches.

So, we can say this project has wide scope.

1.7 Literature Review

Nowadays it is a very difficult task to find and buy pets, their food, and accessories. But now they will find it easy get them and can have updates about new pets. Thinking about health of pets it will be helpful for users to get pets feeding tips. Mostly every person is busy today's world and wants to save time so if he wants to make an appointment with our vet they can do that easily on our website rather

than go to clinic and wait for hours to get their turn. So, it sounds fascinating to people to get their pets easily.

Chapter 2

Requirement Specification

A software requirement specification helps programmers in catching the complete explanation about how the system is expected to perform. This chapter provides detailed plan of the project which includes user characteristics, general constraints and specific requirements by using use case diagram with specifications. These requirement is of two types.

- **Functional Requirements**
- **Non-functional Requirements**

2.1 Functional Requirements

The functional requirements of this system are:

2.1.1.1 Pet suppliers

- Seller needs to have a valid supplier account and must be logged in to the system.
- This is a supplier or seller account where an account holder can sale his/her pets.
- Any user can see this without signing in.

2.1.1.2 Food

• This is a seller or supplier account where an account holder can sale his/her pet food items.
• Seller needs to have a valid account and must be logged in to the system
• Any user can see this without signing in.

2.1.1.3 Accessories

• This is a seller or supplier account where an account holder can sale his/her pets related accessories.
• Seller needs to have a valid account and must be logged in to the system
• Any user can see this without signing in.

2.1.1.4 Blog

• Updates about new material to the website about pets, their accessories, and food items.
• Suggestions regarding dealing pets and their health tips.

2.1.1.5 About Us

• Give a peek behind the curtains. Tells visitors what they should know about this website.
• List credentials, certificates, awards, services and importance.

2.1.1.6 Contact

• In case user wants to communicate with the admin of website.
• For communication user can use customer support

2.1.1.7 User registration and login

• User needs to create a login for accessing the functionality of the website. If the user is new, he/she needs to create a new account of the user has already created he/she has to enter login details.
• User needs to enter valid details in the prompt box shown on the screen.

2.1.1.8 Log out

• After performing his/her task user can logout from his account.

• User gives logout command at any time.

2.1.1.9 Search

• User can search any other user or product item of his/her choice.

• User need to use search button for to search product or user.

2.1.1.10 Product categories

• User can search for a specific product (pets, food, accessories) by using categories button.

• A categories button contains list of classes of pets, food, and accessories.

2.1.1.11 Filter Search

• User can filter his/her search for specific range of price or product.

• Filter will provide user with range of products he/she asked for.

2.1.1.12 Order through call and message

• Order button contains to two buttons for contacting to seller.

• Message button will take user to Whats App where he/she can ask for order to seller.

• Call button will take user to local mobile call. So, user can give order to seller on call.

2.1.1.13 Appointment

• Vet can set appointments time according to his availability

• Users can set appointment from the given time available.

2.1.1.14 Favorite

• Users can add products to their favorite.

• Registered users will have a feature of favorite in which they can compare different products to buy.

2.2 Non-functional Requirements

The non-functional Requirements of this web app are:

2.2.0.1 Flexibility

Users can use different devices whether desktop computer or mobile phones so interface is user friendly.

2.2.0.2 Performance Requirements

Web server is always available for users all 24/7, also connections to the server will be based on criteria of user like his internet connection.

2.2.0.3 Response Time

A fast site is good user experience and satisfying user experiences leads to higher conversions. Excellent response time should be provided by the website.

2.2.0.4 Reliability

The system should provide a reliable environment to the user.

2.2.0.5 Availability

All functionalities of the system should be available to the user at any time user wants to access

2.2.0.6 Validity

As different types of forms are part of system that requires data from user. For this purpose system should validate user data on every field.

2.2.0.7 Maintainability

There is no maintainability phase for our system right now as we want to develop it further.

2.2.0.8 Data Integrity

Data will be kept safe in databases and will be updated regularly. No data loss will happen. There will be very less information stored in the database, all the tasks and sensitive information will be added and used on the front end and will be discard after use.

Chapter 3

Project Design

3.1 Use Case Diagrams

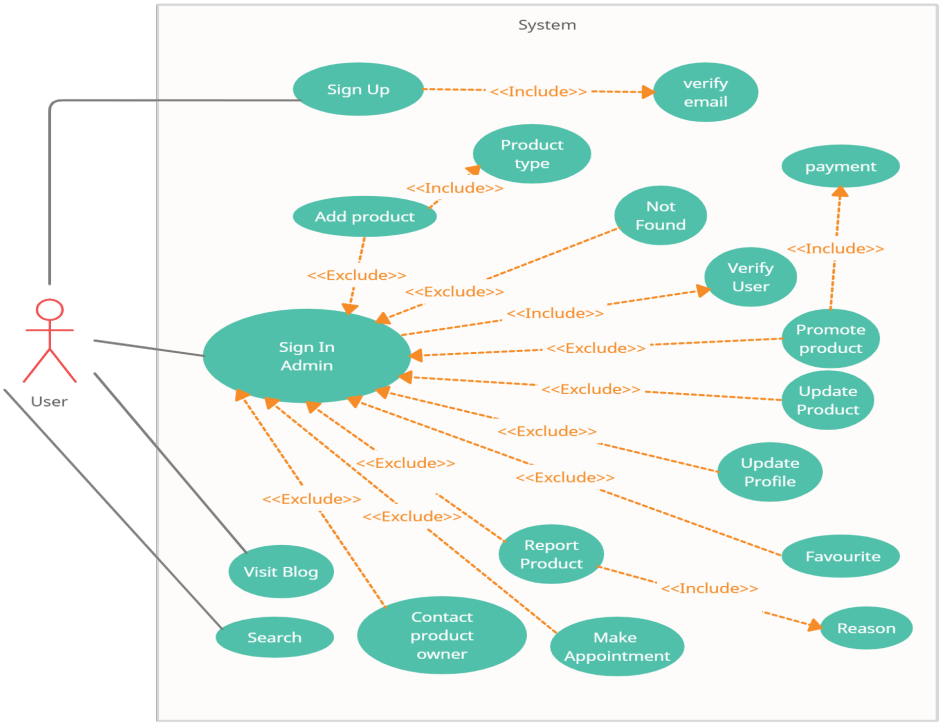

FIGURE 3.1: Use Case of User

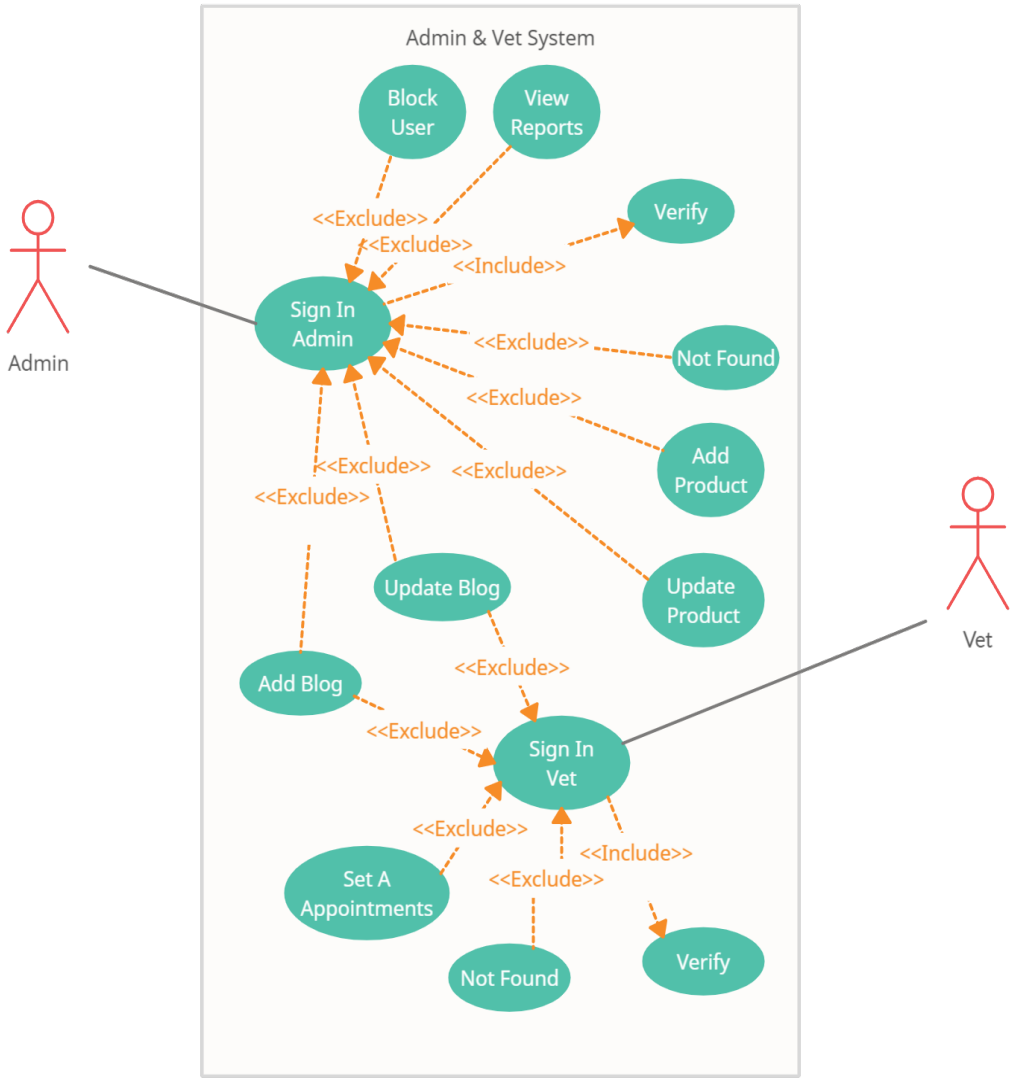

FIGURE 3.2: Use Case of Admin and Vet

3.2 Use Case Tables

Table 3.1: UC-01, USER ()

Use Case Name	Registration
Primary Actor	User
Precondition	System has been programmed to create a new account
Trigger	• Open the Web application • Click on "Create a new account" • Enter all correct details and Click Register
Scenario	• Open the Web application • Click on "Create a new account" • Enter all correct details and Click Register
Exceptions	• Incorrect details entered • Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.2: UC-02, User()

Use Case Name	Sign in
Primary Actor	User
Precondition	System has been programmed to login the existing user
Trigger	Click Login
Scenario	• Open the Web application • Enter correct username and password • Click Login
Exceptions	• Incorrect details entered • Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.3: UC-03, User()

Use Case Name	Search
Primary Actor	User(viewer)
Precondition	System has been programmed to allow search
Trigger	Click Search Button
Scenario	• Login to your account • Click on search box • Type product name and press enter
Exceptions	• Product not exist • Product is out of stock • Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.4: UC-04, User()

Use Case Name	Update Profile
Primary Actor	User
Precondition	System has been programmed to update existing details of user
Trigger	System has been programmed to update existing details of user
Scenario	• Login to your account • Edit your profile • Enter new details and click update
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Rare
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.5: UC-05, User()

Use Case Name	Verify User
Primary Actor	User
Precondition	System has been programmed to verify User of user
Trigger	User verified User do not exist
Scenario	• User available •Logged IN
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	High
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.6: UC-06, User()

Use Case Name	Contact Product Owner
Primary Actor	User
Precondition	Internet Connected Website Opened Perfect match found.
Trigger	Primary: When user have found perfect match for his pet.
Scenario	• Request to other pet owner sent •Response from pet owner received.
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	High
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.7: UC-07, User()

Use Case Name	Add to favorite
Primary Actor	User
Precondition	Internet Connected Website Opened Product Selected
Trigger	Primary: Product Added to fav. Secondary: Direct view fav by clicking.
Scenario	Product added to fav.
Exceptions	• Internet not working •Product not available
Priority	Must be implemented
Frequency of use	High
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.8: UC-08, User()

Use Case Name	View product details
Primary Actor	User
Precondition	Internet Connected Website Opened Products added to cart already.
Trigger	Primary: When products are added to the cart and user wants to confirm the order
Scenario	Order confirmed. • Payment method Opens.
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	High
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.9: UC-09, User()

Use Case Name	Remove Product
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Already Registered
Trigger	Primary: Delete product from owner profile
Scenario	Product Deleted
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Low
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.10: UC-10, User()

Use Case Name	Payment
Primary Actor	User
Precondition	• Internet Connected • Website Opened • Logged IN
Trigger	Primary: Submit Question Secondary: Emergency Case Appointment for Video Talk Mart
Scenario	•Payment Done • Payment Receipt received
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	High
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.11: UC-11, User()

Use Case Name	Verify Email
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Register User Accessed
Trigger	Primary: User want to Register
Scenario	• E-mail verified • Email do not exist
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	high
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.12: UC-12, User()

Use Case Name	User not found
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Register User Accessed
Trigger	Primary: User wants to Log IN Secondary: User clicked on our facilities.
Scenario	Incorrect username or pass
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Medium
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.13: UC-13, User()

Use Case Name	Visit Blog
Primary Actor	User
Precondition	• Internet Connected •Website Opened •Logged in
Trigger	Primary: Click direct on the blogs section Secondary : Log IN first and then Click on blogs section
Scenario	Blog Opens
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	High
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.14: UC-14, User()

Use Case Name	Add product
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Logged in
Trigger	Primary: Visit owner profile
Scenario	New product added
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	High
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.15: UC-15, User()

Use Case Name	Update product
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Logged in
Trigger	Primary: Visit owner profile
Scenario	Product updated
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	High
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.16: UC-16, User()

Use Case Name	Product Type
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Logged in
Trigger	Primary: Visit owner profile
Scenario	Products are categorized so user can search products accordingly.
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.17: UC-17, User()

Use Case Name	Promote product
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Logged in
Trigger	Primary: interest related Products
Scenario	Promotion of products will show user products based on his/her previous search.
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.18: UC-18, User()

Use Case Name	Favorite
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Logged in
Trigger	Primary: Push BUTTON FAVOURITE Secondary: Push BUTTON FAVOURITE
Scenario	• User can add any product to favorite if he/she can't buy right now
Exceptions	•Internet not working • Product not available
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.19: UC-19, User()

Use Case Name	Remove to favorite
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Logged in
Trigger	Primary: Remove favorite from owner profile
Scenario	Product removed
Exceptions	• Internet not working •Product not available
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.20: UC-20, User()

Use Case Name	Add to favorite
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Logged in
Trigger	Primary: Push BUTTON FAVOURITE
Scenario	User can add any product to favorite if he/she can't buy right now
Exceptions	• Internet not working •Product not available
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.21: UC-21, User()

Use Case Name	Report product
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Logged in
Trigger	Primary: Report product
Scenario	• Faulty product •Wrong product
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.22: UC-22, User()

Use Case Name	Make appointment
Primary Actor	User
Precondition	•Internet Connected •Website Opened •Logged in
Trigger	Primary: user can view requests from owner for the appointment of video talk in Virtual Clinic. He can set appointment according his availability
Scenario	• Make Appointment. •Notification sent to user.
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.23: UC-23, Admin()

Use Case Name	Sign in
Primary Actor	Admin
Precondition	System has been programmed to login the existing admin
Trigger	Click Login
Scenario	• Open the Web application • Enter correct Admin-name and password • Click Login
Exceptions	• Incorrect details entered • Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.24: UC-24, Admin()

Use Case Name	Verify Admin
Primary Actor	Admin
Precondition	System has been programmed to verify Admin
Trigger	Admin verified Admin do not exist
Scenario	• Admin available •Logged IN
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.25: UC-35, Admin()

Use Case Name	Admin not found
Primary Actor	Admin
Precondition	• Internet Connected • Website Opened • Register Admin Accessed
Trigger	Primary: Admin wants to Log IN Secondary: Admin clicked on our facilities.
Scenario	Incorrect Admin name or pass
Exceptions	• Incorrect details entered • Internet not working
Priority	Must be implemented
Frequency of use	Medium
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.26: UC-26, admin()

Use Case Name	Update Blog
Primary Actor	Admin
Precondition	• Internet Connected • Website Opened • Register Admin Accessed
Trigger	Primary: Click direct on the blogs section Secondary : New content added in blogs section
Scenario	Blog updated
Exceptions	Incorrect details entered
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.27: UC-27, Admin()

Use Case Name	View Report
Primary Actor	Admin
Precondition	• Internet Connected • Website Opened • Register Admin Accessed
Trigger	Primary: Admin view report Secondary: Admin takes action
Scenario	•Faulty product • Wrong product
Exceptions	• Incorrect details entered • Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.28: UC-28, Admin()

Use Case Name	Block user
Primary Actor	Admin
Precondition	• Internet Connected • Website Opened • Rules disturbed
Trigger	Primary: user acted against the website rules Secondary: Admin blocked user
Scenario	User did not follow the rules defined the website authority and user did not follow. So, he/she is blocked
Exceptions	Incorrect details entered
Priority	Must be implemented
Frequency of use	Medium
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.29: UC-29,Admin()

Use Case Name	Add product
Primary Actor	Admin
Precondition	• Internet Connected • Website Opened • Logged in
Trigger	Primary: new product added in stock
Scenario	New product is added to the stock
Exceptions	Incorrect details entered
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.30: UC-30,Admin()

Use Case Name	Update product
Primary Actor	Admin
Precondition	• Internet Connected • Website Opened • Logged in
Trigger	Primary: products updated
Scenario	New Product updated
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.31: UC-31,Vet()

Use Case Name	Sign in
Primary Actor	Vet
Precondition	System has been programmed to login the existing vet
Trigger	Click Login
Scenario	• Open the Web application • Enter correct username and password • Click Login
Exceptions	• Incorrect details entered • Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.32: UC-32,Vet()

Use Case Name	Verify vet
Primary Actor	Vet
Precondition	System has been programmed to verify vet
Trigger	vet verified vet do not exist
Scenario	• vet available • Logged IN
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.33: UC-33,Vet()

Use Case Name	vet not found
Primary Actor	Vet
Precondition	• Internet Connected • Website Opened • Register Admin Accessed
Trigger	Primary: vet wants to Log IN Secondary: vet clicked on our facilities
Scenario	Incorrect vet name or pass
Exceptions	• Incorrect details entered • Internet not working
Priority	Must be implemented
Frequency of use	Medium
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Table 3.34: UC-34,Vet()

Use Case Name	Add Blog
Primary Actor	Vet
Precondition	• Internet Connected • Website Opened • Logged in
Trigger	Primary: Click direct on the blogs section Secondary : New content added in blogs section
Scenario	Blog updated
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

TABLE 3.35: UC-02, Vet()

Use Case Name	Set appointment
Primary Actor	Vet
Precondition	• Internet Connected • Website Opened • Logged in
Trigger	Primary: vet can view requests from user for the appointment of video talk in Virtual Clinic. He can set appointment according his availability
Scenario	•Appointment set. •E-mail sent to vet.
Exceptions	Internet not working
Priority	Must be implemented
Frequency of use	Many times a day
When Available	At first increment
Channel to Actor	Graphical User Interface
Secondary Actor	Server

Chapter 4

Diagrammatic Explanation

4.1 Class Diagrams

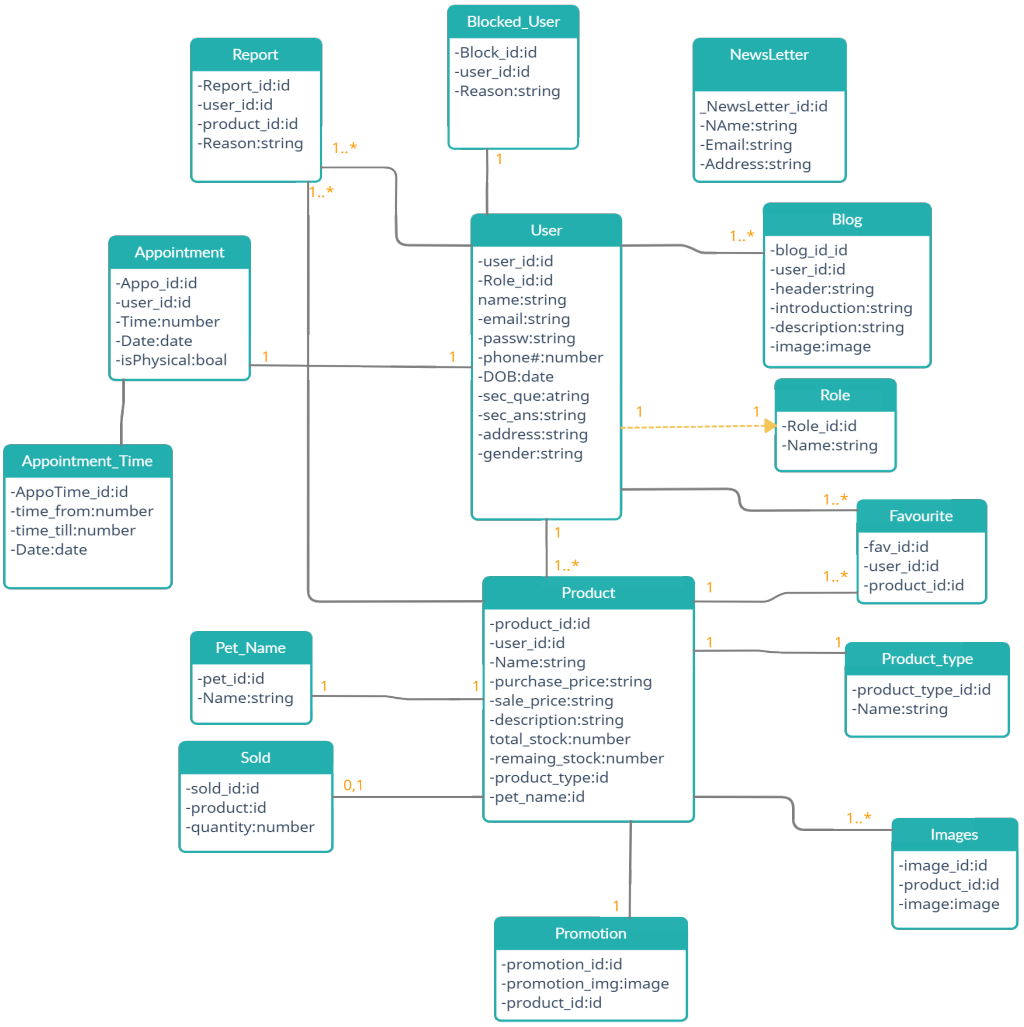

FIGURE 4.1: Domain diagram

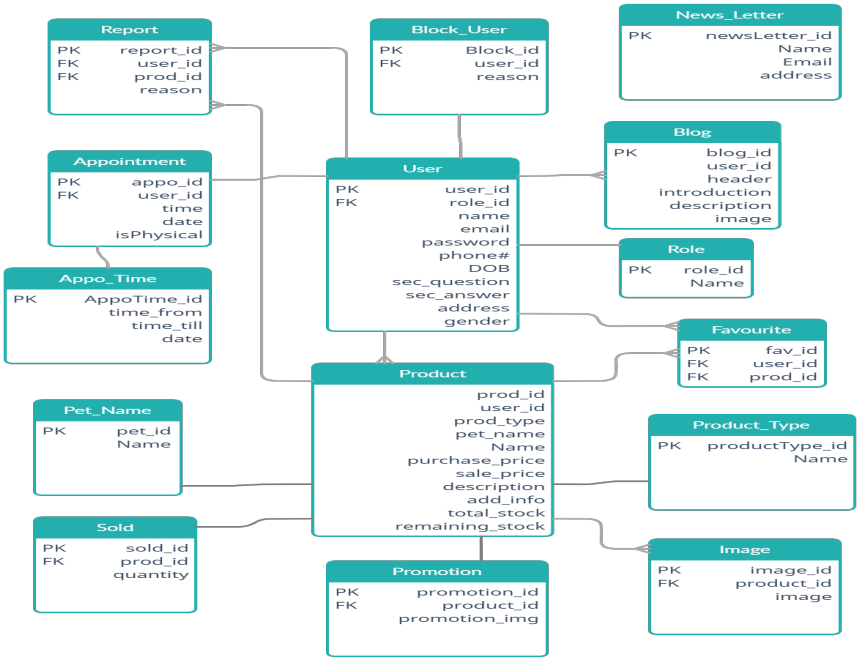

FIGURE 4.2: ER diagram

4.2 Sequence Diagram

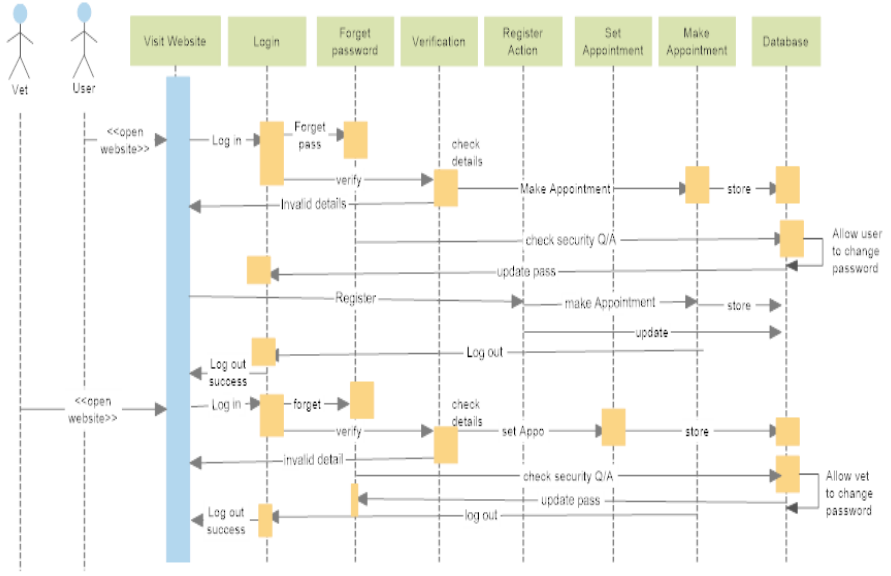

FIGURE 4.3: Online appointment Process

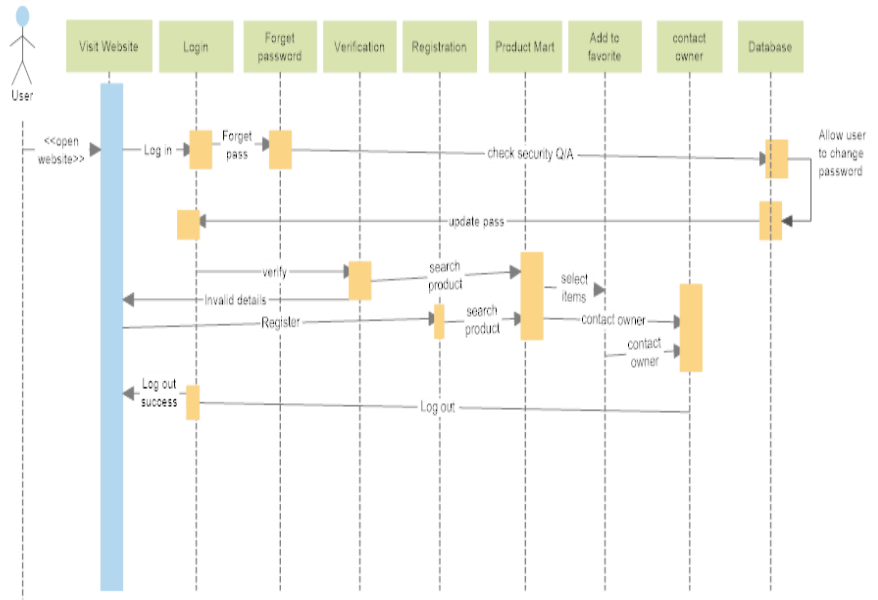

FIGURE 4.4: Process of Buying from Mart

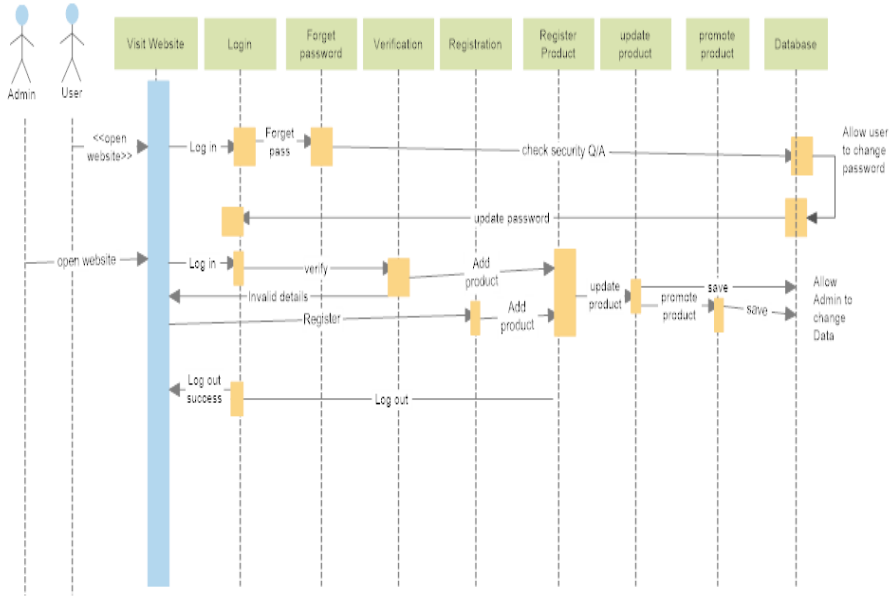

FIGURE 4.5: Process of selling into Mart

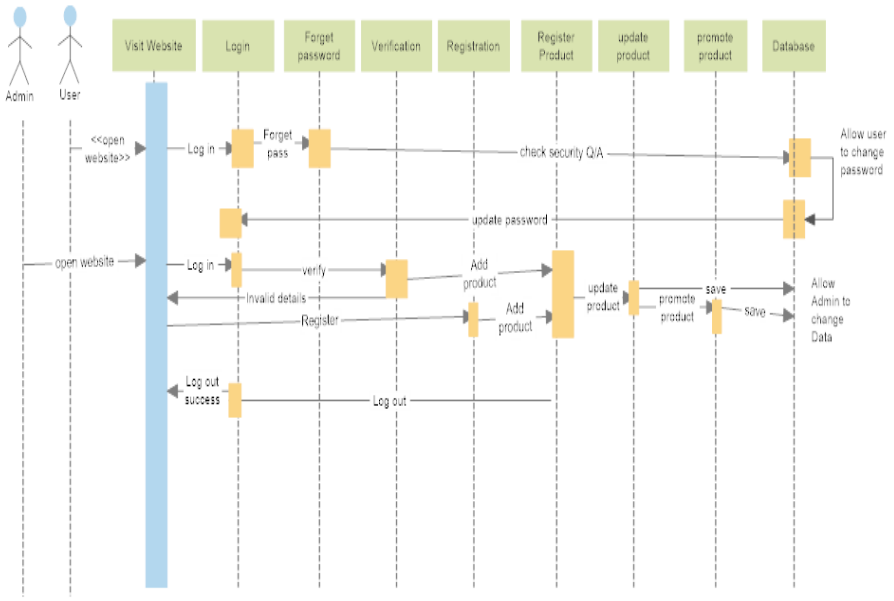

FIGURE 4.6: Process of selling into Mart

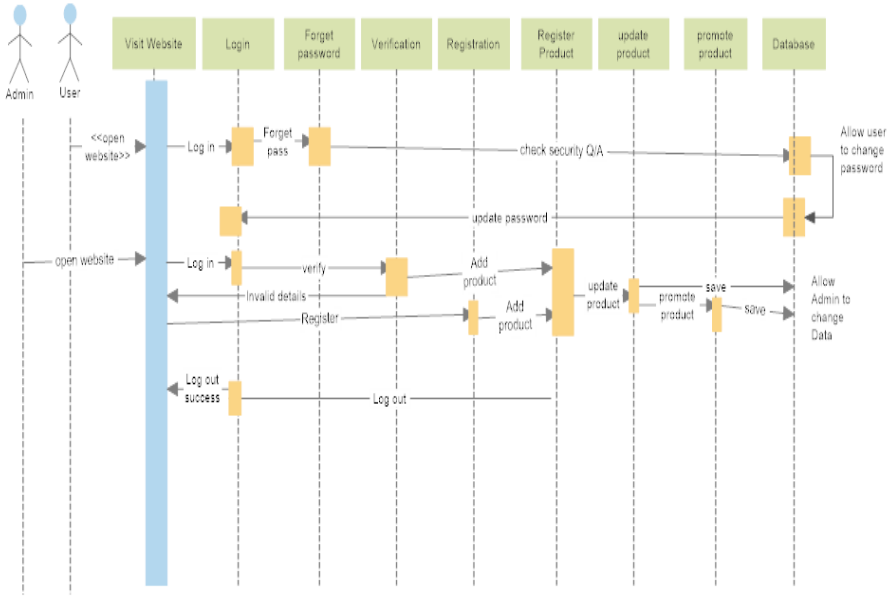

FIGURE 4.7: Process of selling into Mart

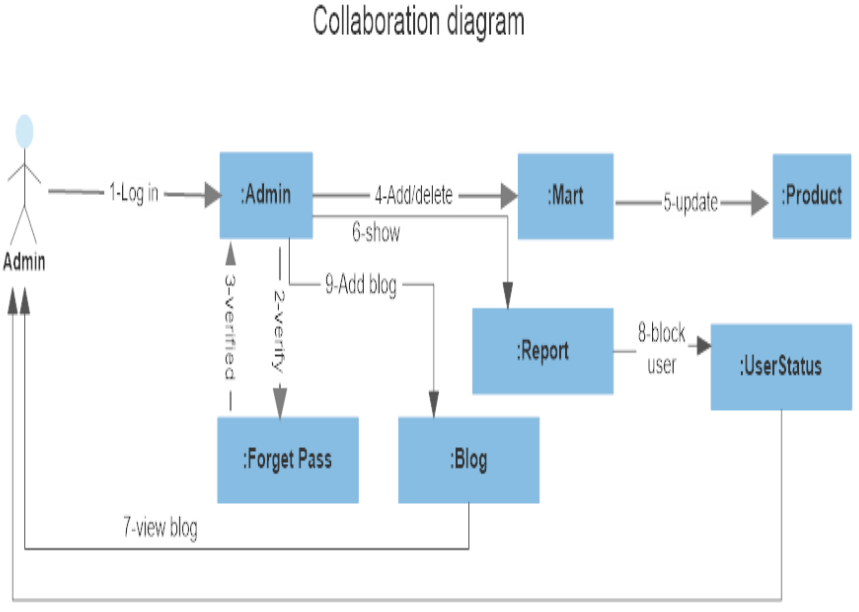

FIGURE 4.8: Admin

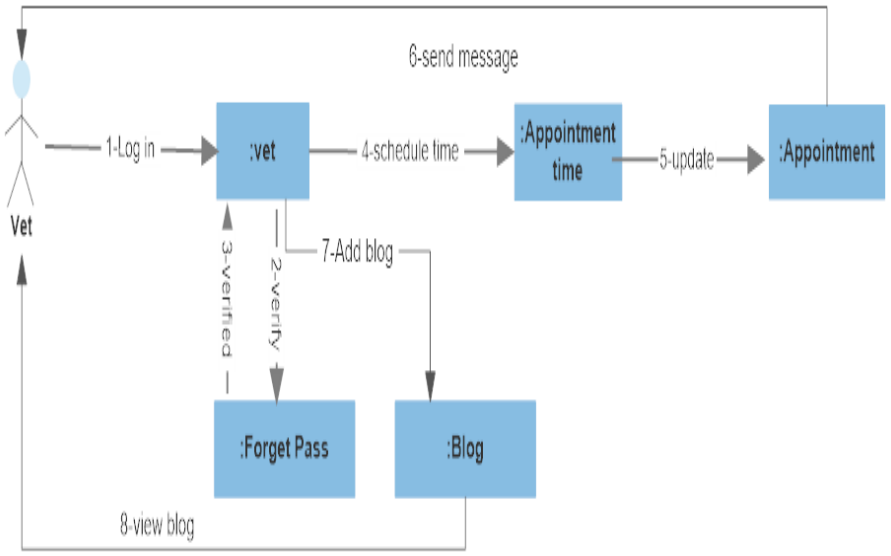

FIGURE 4.9: Vet

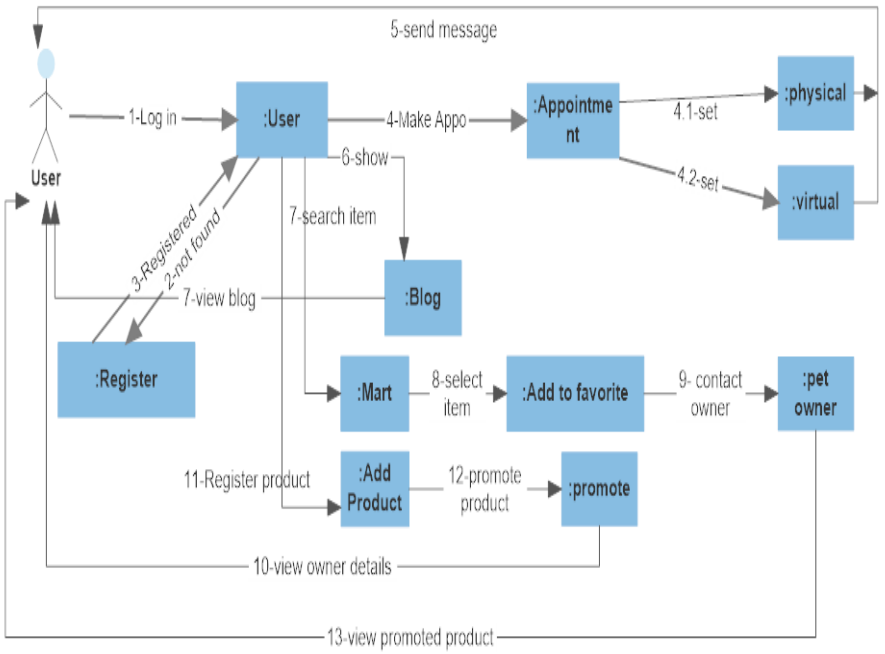

FIGURE 4.10: User

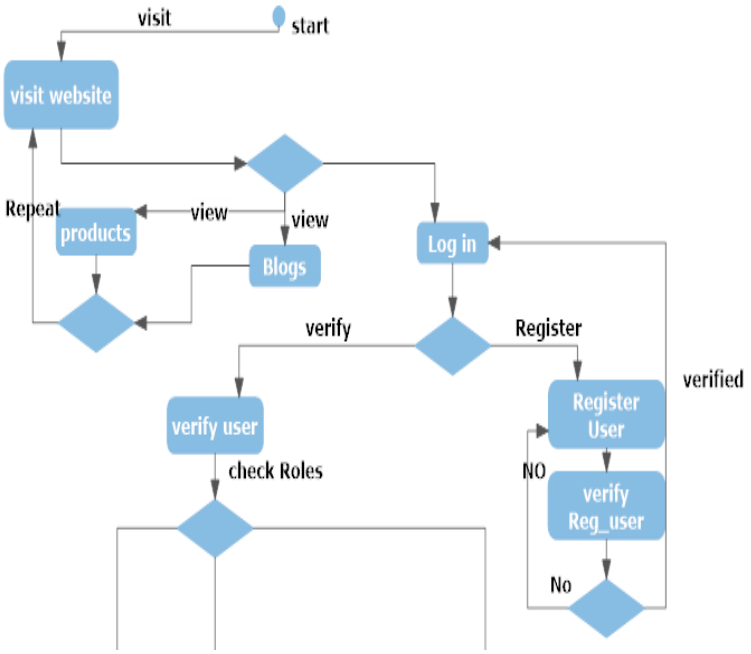

FIGURE 4.11: Activity Diagram Part 1

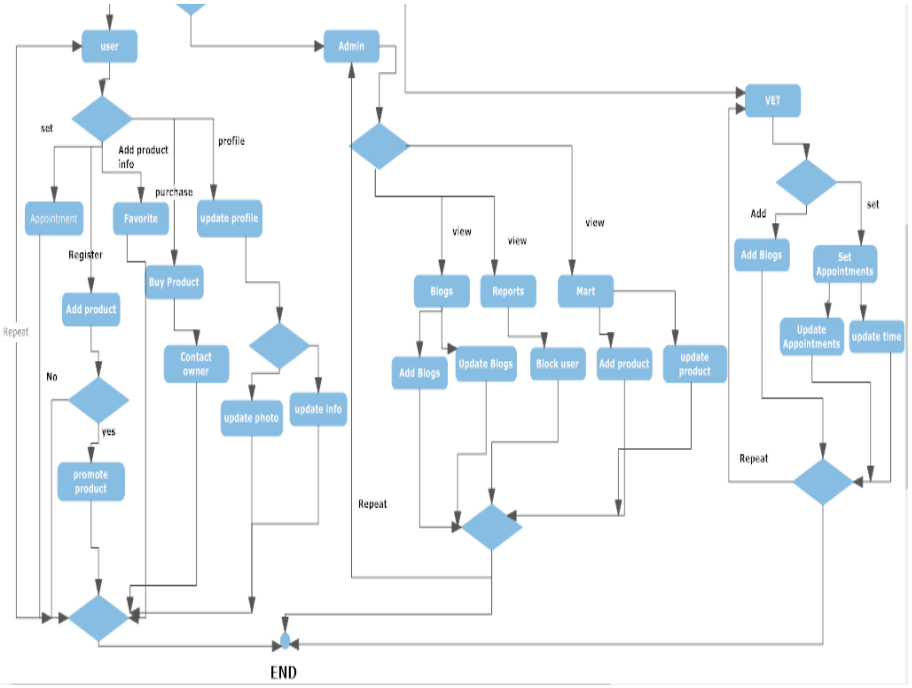

FIGURE 4.12: Activity Diagram part 2

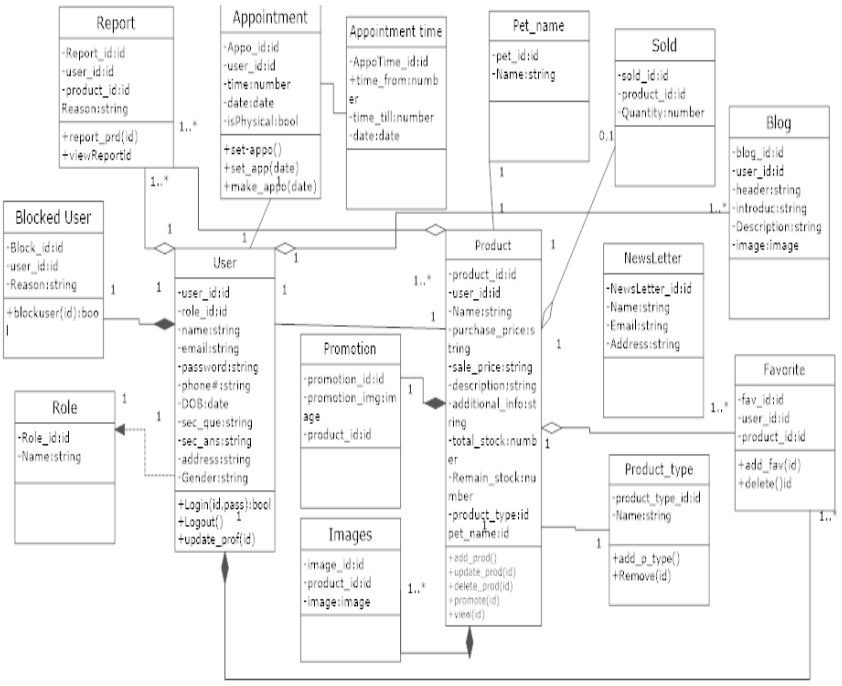

FIGURE 4.13: Class diagram

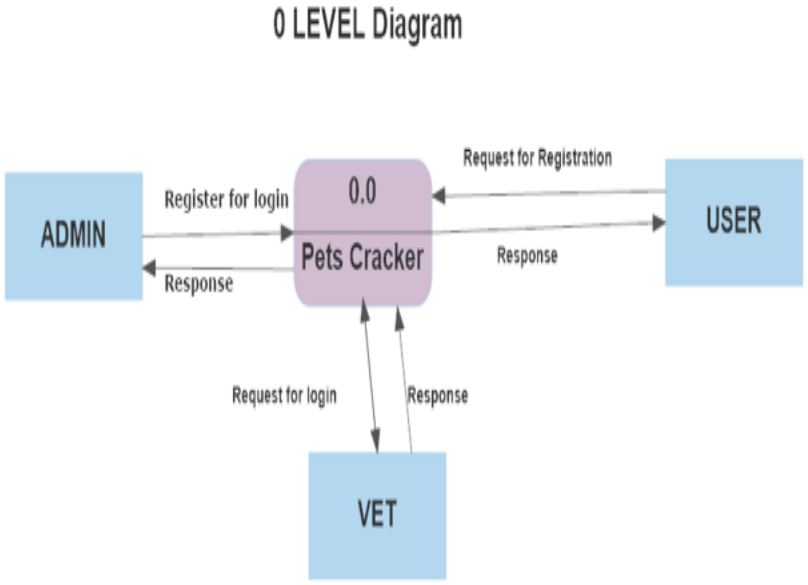

FIGURE 4.14: O-Level Diagram

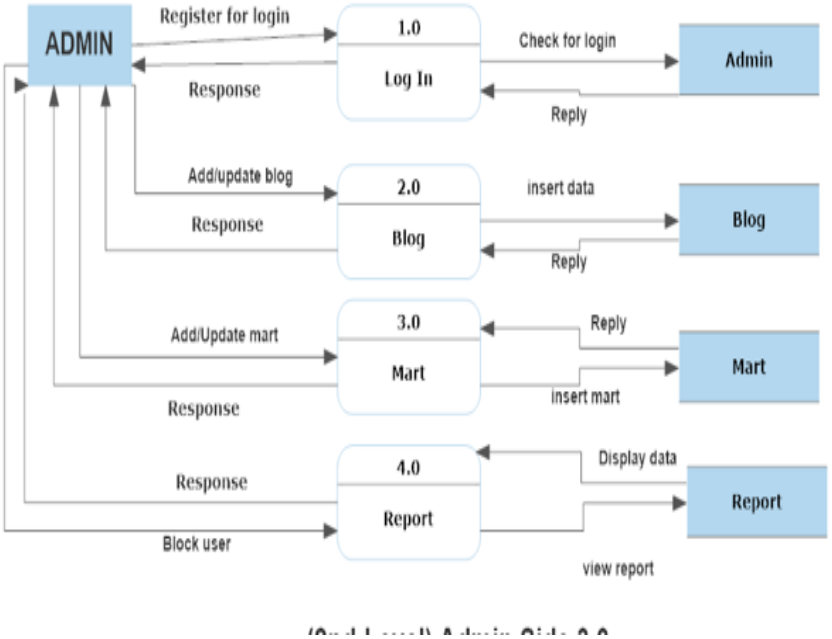

FIGURE 4.15: 1st-Level admin side

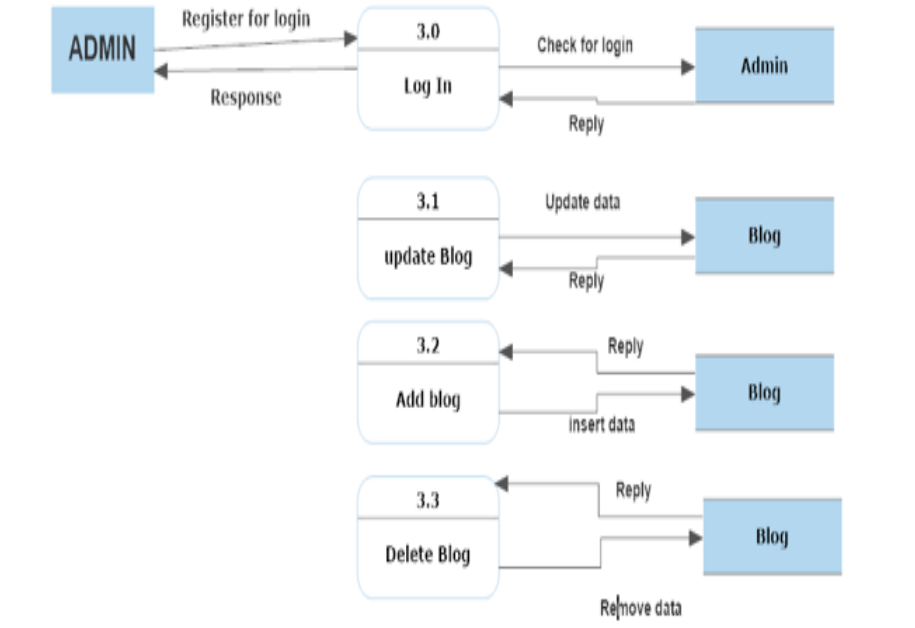

FIGURE 4.16: 2nd-Level Admin side 2.0

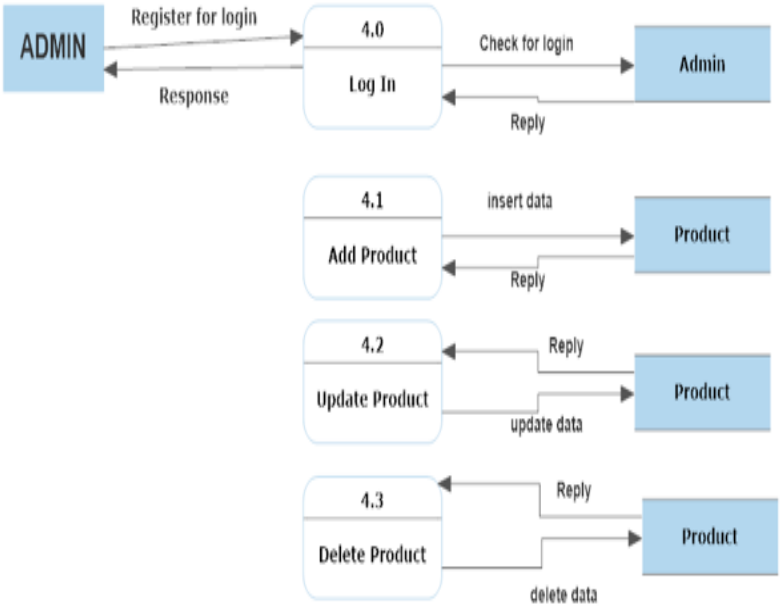

FIGURE 4.17: 2nd-Level Admin side 3.0

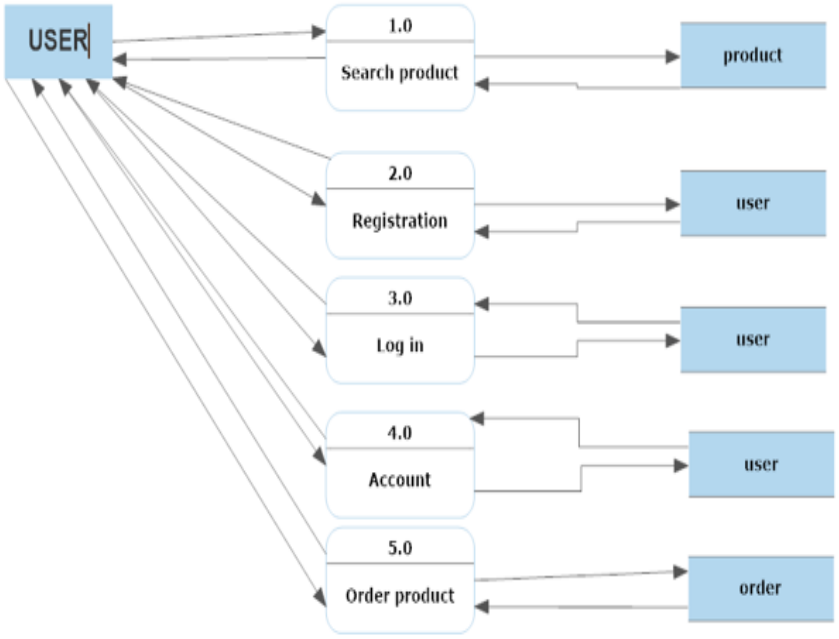

FIGURE 4.18: User

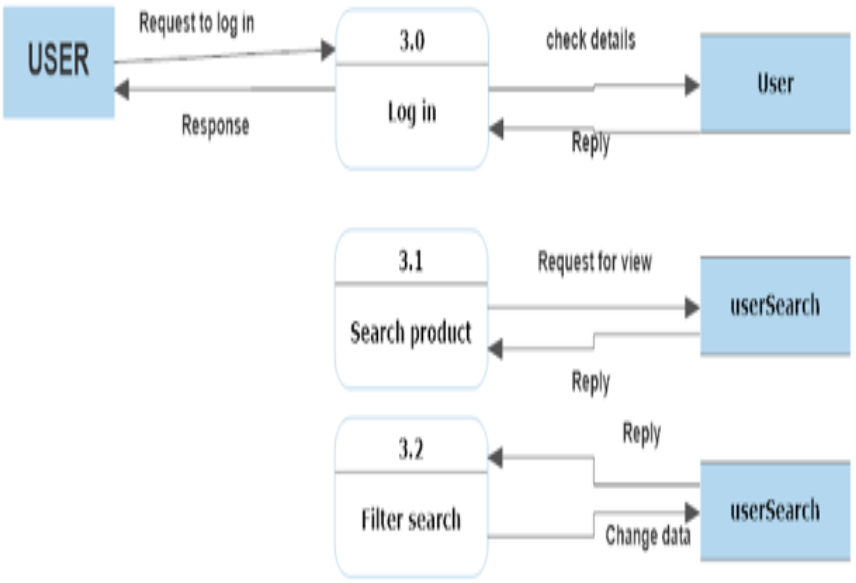

FIGURE 4.19: 0-Level User side

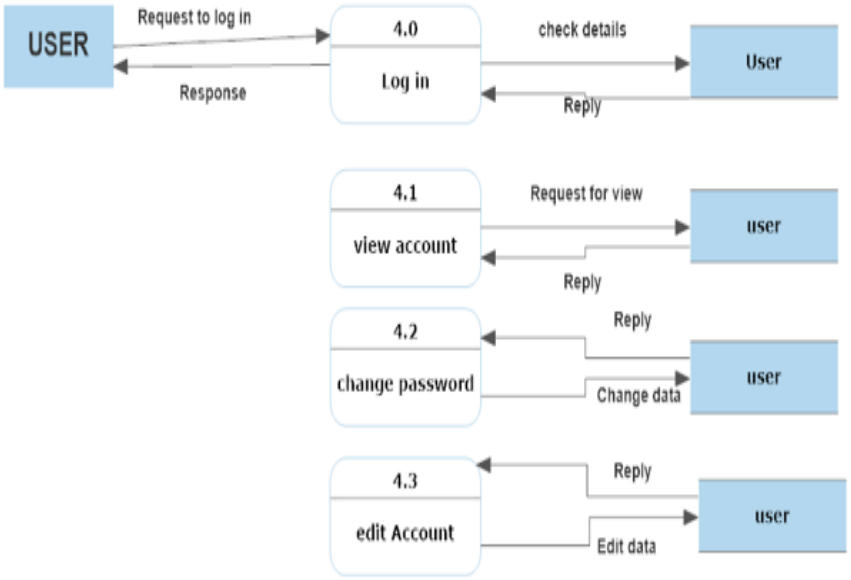

FIGURE 4.20: 1st-Level user side 1.0

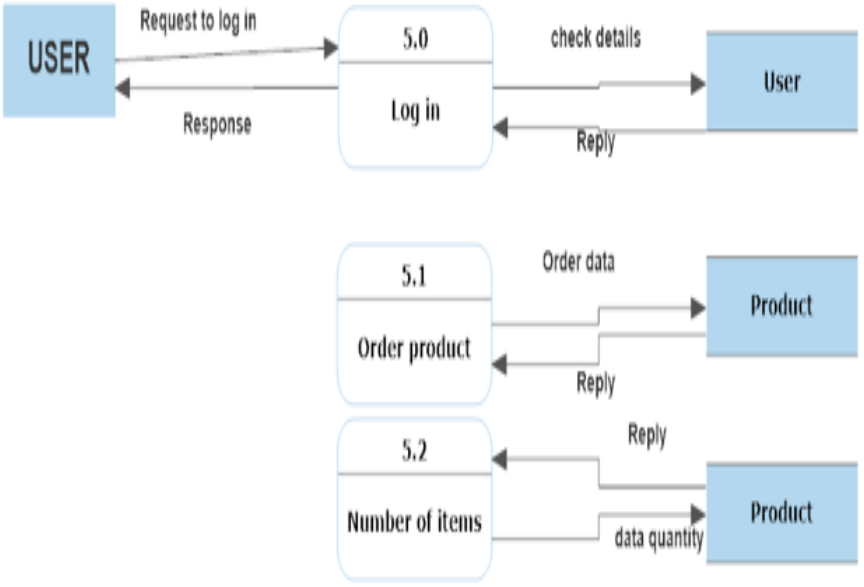

FIGURE 4.21: 2nd-Level user side 2.0

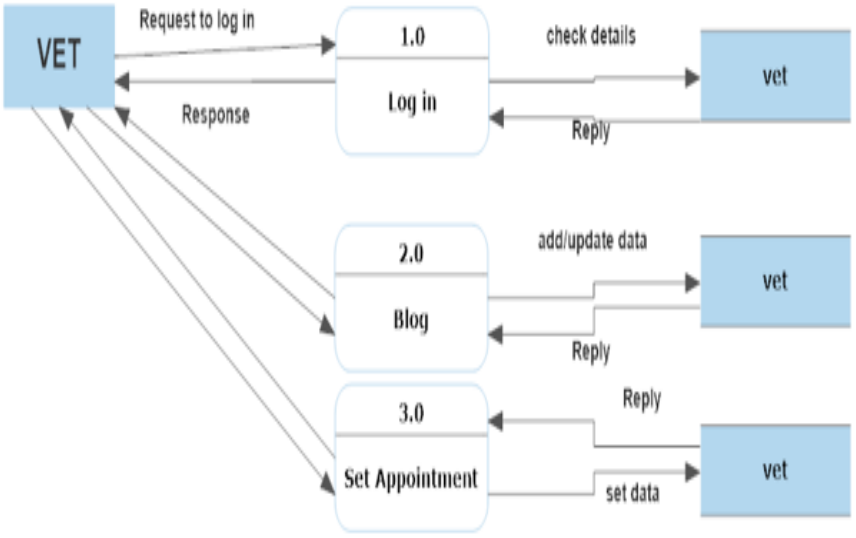

FIGURE 4.22: 0-Level vet side

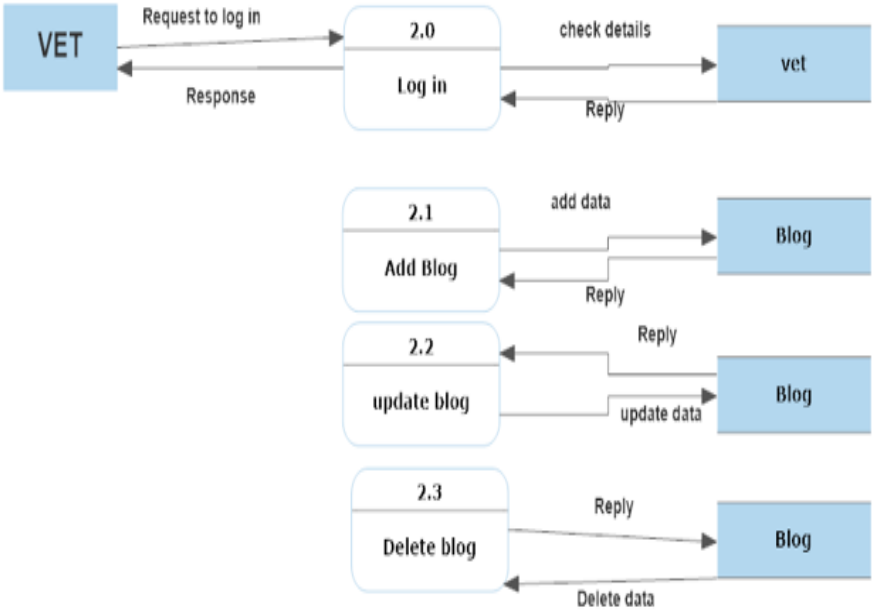

FIGURE 4.23: 1st-Level vet side

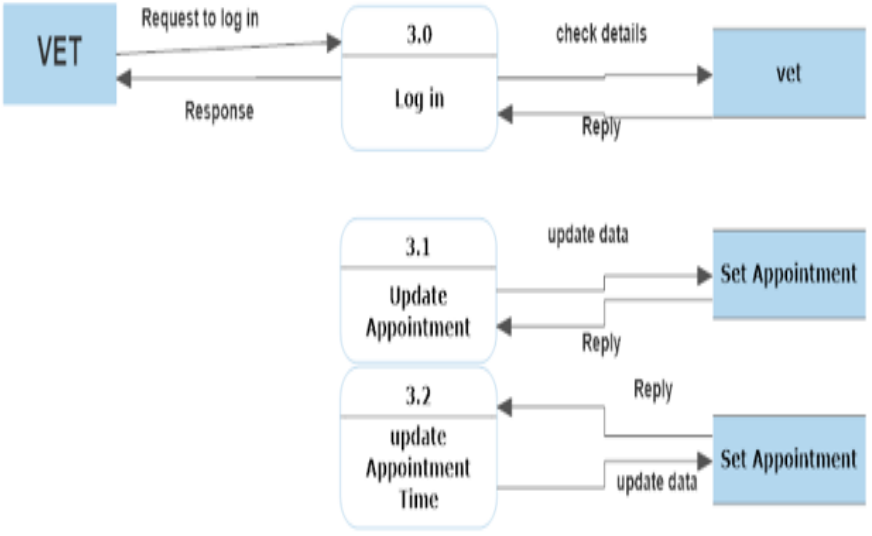

FIGURE 4.24: 2nd-Level vet side

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Bibliography

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