Final Year Project Report

Online E-commerce and Classified Website (Mini Pet World)



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Dedication

Our work is dedicated to our faculty members, our parents who support us in various ways, who always help us to learn more and more and gave us valuable feedback. We also dedicate our work to our University which gave us the opportunity to enhance our knowledge.		

Final Approval

•	Head of Department Department of Software Engineering School of Systems and Technology UMT Lahore	
•	Director Final Year Projects School of Systems and Technology UMT Lahore	
•	Supervisor School of Systems and Technology UMT Lahore	
•	Co-Supervisor (if any)	

Acknowledgment

We would like to appreciate and express our gratitude to all the people who were the key support for us and make it possible for us to complete this project. We are thankful to our Final Year Project advisor, Mam Ayesha Asmat and Mam Hira Asim, who help, motivate, manage and support us to complete our project and our final report writing. We would also like to thank all the teammates who deserves to be appreciated as their hard work make this project possible to be completed

Project Title

Mini Pet World

Objective

Our objective is to facilitate every Pet lover, pet keeper and breeder with new emerging technology of ecommerce to shift online and avoid visiting market places during this pandemic.

Undertaken by

We claim that we have this project by our own previous knowledge and new knowledge. All the documents and all the work done is original.

Supervised by

Mam Ayesha Asmat

Mam Hira Asim

Starting Date

October, 2020

Completion Date

August, 2021

Tools Used

- PHP
- Laravel MVC Framework
- JavaScript
- Bootstrap
- Html
- CSS
- My Sql
- VS Code
- Git Hub

Operating System

Windows 10 Pro

Supervisor's Approval

•	mentation of the Final Year Project titled "Mini Pet
World"; and I endorse that this	documentation complies with the standards of an
undergraduate level Final Year Proj	ect report.
Moreover, I have also checked for	the plagiarism beyond Turnitin in the documentation
and I am convinced that this docume	entation is not plagiarized.
Signature:	Date:

Abstract

When you have a pet in your family it automatically becomes a member of your family. But finding a perfect item and service for your pets is also a big problem. Moreover, when it comes to buy or sell your animals it becomes a difficult task. Keeping some of these major problems in mind we have developed a full fledge Online Web based Pet Store. Where customer can find a perfect service for his pet. Mini Pet World is a web based application where pet owners can find each and everything related to pet under single roof. We have developed some unique services like pet relocation (To relocate customer's pet), pet engagement for the purpose of breeding. Pet care service is also included it is just like babysitting, to take care of customer's pet. Most of these services are unique and not yet available in Pakistan. The main objective of Mini Pet World is to eliminate the problems encountered in the current manual operation of the business. The hassle of sell/purchase will be reduced. Pet supplies and food will be delivered at customer's doorstep. Customer can also find affiliated vets nearby.

REVISION CHART

Task	Group Available in Meeting	Description of version	Date
Elicitation	Muhammad Ali, Ammar Ghafoor, Hamid Ali	Advice to start elicitation Read related research papers To study related apps Advised to study risks, benefits, difficulties for our project.	Nov 24,2020
Proposal	Muhammad Ali, Ammar Ghafoor, Hamid Ali	Advised to update proposal, add new features, to decide a platform that will be used for implementation tools and technologies	Nov 30,2020
Use cases(Revision 1)	Muhammad Ali, Ammar Ghafoor, Hamid Ali	Use cases designed After meeting advised to correct pointed errors in use cases. To add common and specialized functionality.	Dec 25,2021
use cases(Revision 2)	Muhammad Ali, Ammar Ghafoor, Hamid Ali	use cases are redesigned After meeting advised to find new use cases and also advised to make high fidelity prototype of Mini pet world website	Jan 12,2021
Front end	Muhammad Ali, Ammar Ghafoor, Hamid Ali	Front end screens designed	Jan 22,2021
Sequence diagrams	Muhammad Ali, Ammar Ghafoor, Hamid Ali	After meeting advised to make class diagrams Also discussed different tools to make diagrams	Jan 26,2021
DFD	Muhammad Ali, Ammar Ghafoor, Hamid Ali	Dfd 0 and 1 designed.	Feb 01,2021
Revision 1	Muhammad Ali, Ammar Ghafoor, Hamid Ali	Revised use extended use cases	Feb 08,2021

Revision 2	Muhammad Ali,	Revised ERD diagram	Feb 16,2021
	Ammar Ghafoor,		
	Hamid Ali		
Revision 3	Muhammad Ali,	Revised system architecture	Feb 21,2021
	Ammar Ghafoor,	diagram	
	Hamid Ali		
Revision 4	Muhammad Ali,	Revised test cases	May 25,2021
	Ammar Ghafoor,		
	Hamid Ali		
Revision 5	Muhammad Ali,	Revised RID vs UCID	May 29,2021
	Ammar Ghafoor,	Revised RID vs TCID	
	Hamid Ali	Revised UCID vs TID	
Revision 6	Muhammad Ali,	Advised to change some interface	June 15,2021
	Ammar Ghafoor,	in the site	
	Hamid Ali		
Final Release	Muhammad Ali,	Final Application Test	Aug 04,2021
	Ammar Ghafoor,		
	Hamid Ali		

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Definitions and Acronyms

Table 1: table of acronyms and definitions

Acronym	Definition
UMT	University of management and technology
FR	Function Requirements
NFR	Non Functional Requirements
MPW	Mini Pet World
SQL	Structured Query Language
DFD	Data flow diagram
UI	User Interface
ERD	Entity Relation Diagram

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1. Introduction

1.1 Motivations

Mainly purpose of our project is to provide Pakistani pet owner's with every facility related to pets. The motivation behind this project is we analyzed that mostly pet owner's in Pakistan is facing the problem of pet caring, pet relocating and pet engagement. These are the common difficulties that every pet owner facing so, we will offer the solution of these difficulties in one platform.

1.2 Project Overview

As in this era almost every family have a pet in. But finding a perfect item and service for your pet is also a big problem. Moreover, when it comes to buy or sell your animals it becomes a difficult task. Indeed, there is a huge target market out there. We are supposed to launch some unique service which is not yet available in Pakistan. Keeping some of these major problems in mind we are intend to develop a full fledge Online Pet Store. Where you can find a perfect service for your pet. This online system majorly accomplishes the needs of that costumers who didn't have time to time to go to market for their pet food and accessories and for their selling and purchasing. In our system major functions include manage payments and delivery, User friendly, Related items, Detailed shipping information, Return Policy, Find in store etc.

1.3 Problem Statement

One of the major reason is to eliminate problems encountered in the current manual operation of the business. Pet lovers have to visit local markets to sell and purchase their pets and usually vendors do not treat them according to their expectation. Moreover, when someone have to go somewhere for short time, taking care of pet is one of the big problem. Another one of the most common problem in Pakistan is that it is very difficult to find the mating partner for the pet. It is very difficult to find veterinary medical store. Finding a perfect food item or accessories for your pet is also a big problem especially in this COVID-19 situation when everyone wants to sit and work from home.

1.4 Objectives

The main objective of Online Pet Shop is to design and develop an online application to counter and eliminate above mentioned problems. The hassle of sell/purchase will be reduced. Pet supplies and food could be deliver at customer's doorstep. Customer can find vet address and contact number easily. Ad posting for sell/purchase will be from all over the Pakistan. Ads for mating/stud purpose could also be posted.

2. Domain Analysis

2.1 Customer

Our customers will be all pet lover from all over the Pakistan. In our platform we will serve those peoples particularly who want to go anywhere and we will care their pets, also relocate pets from one place to another place and also we will find the mating partner for their pets.

2.2 Stakeholders

Table 2: Stakeholders

Stakeholder	Role in System
Seller	Sellers are our main stakeholders Because sellers will upload their ads for selling their pets. They also can upload adds for pet engagement to find the best mating partner for their pet.
Buyers	Buyers are also one of our prime users they can buy pet in their selected range of price. They can also buy pet food and pet accessories using this platform. Furthermore, they can get information about vets in the town.
Admin	Admin is also our main stakeholder. Admin will manage all the platform functionalities like selling, buying etc. Admin will also have look on stock of pet food and pet accessories.

2.3 Affected Groups with social or economic impact

Buyer:

The buyer should be able to buy any kind/breed of pet without even going to the pet store and also will be able to buy pet products like pet food etc. It will save their time.

Seller:

The seller of the pet store will be able to increase their business by selling online as well as physically. And the people who want to sell their pet will be able to sell online.

2.4 Dependencies/ External Systems

Dependencies/External Systems

- Server
- Database
- Devices
- Internet

2.5 Reference Documents

2.5.1 Related Projects

• Chewy.com

An UK based web application that too provides the pet food, accessories and veterinary medicine. We have looked into this site to get inspiration to build our project.

• Petsshop.pk

It is a local website that provide pets sell/purchase service. We looked its features and functionalities to develop some unique product.

• Petsmart.com

It is Canada based website that too provides some of the feature like pet care and food and accessories of pets online.

2.5.2 Feature Comparison

Table 3: Feature Comparison

Sr No.	Comparison Feature	Chewy	Chewy Petsshop.pk		Mini Pet World
1	Pet Sell/Purchase	This website does not provide this feature	They only provide this feature to post the ad for selling and purchasing purpose	This website does not provide this feature.	User can post ad from all over the Pakistan and search the pet according to desired location.
2	Food Accessories and pharmacy	They provide this feature to buy food, accessories and veterinary medicine as well.	This website does not provide this feature.	They only provide feature to buy food and accessories.	We provide all of these feature and we are also going to mention address and contact information of vet clinics.
3	Finding mating partner for pet.	This website does not provide this feature.	This website does not provide this feature.	This website does not provide this feature.	We are going to provide this unique facility to find the mating partner and pet relocation service
4	Pet Relocation and care	This website does not provide this feature.	This website does not provide this feature.	This website does not provide this feature.	We will use this feature to relocate the pets.

3. REQUIREMENTS ANALYSIS

3.1 Requirements

The requirements are based on the performance and functionalities the system must uphold in order to achieve the objectives.

Table 4 contains a list of categories to which the requirements belong. The requirement type given in the table categorizes the requirements. So that it is easier for the user to identify the requirement by the unique id given to each requirement.

Table 4: Requirement Categories

RID	Requirement Type	Description
FR 1.x	Functional Requirements	Requirements, which are the core requirement of the business operations.
NFR 2.x	Non-Functional Requirements	The supporting Requirements for Functional Requirements. These include the measure able quality attribute.
PR 3.x	Programming Requirements	This section will define which tools are used to develop this website.
DR 4.x	Data Requirements	This section how the user will store the data.

Table 5 contains a long list of requirements that were gathered and discovered for this project. First column contains a unique requirement id that is assigned to each requirement. Description column contains a small description of requirement. The type of requirement is displayed in front of each requirement along with their attribute. For elaboration purposes, description for each requirement is presented in the last column.

Table 5: List of Requirements

RID	Description	Category	Attribute	Details & Boundary Constraints
FR1.1	The user shall login into the system.	Functional Requirements	Login interface	 Enter Login id. Enter login password. Reset forgotten password.
FR1.2	User shall Sign Up into system.	Functional Requirements	Sign Up Interface	 Full Name. Email. Phone. Password. Confirm Password.
FR1.3	User shall be able to visit different menus. User	Functional Requirements	Main menu for production site	Home.Pet Store.Vet Clinics.

	could navigate whole website from home page, food, accessories will be available in pet store, Clinics address and contacts will be available in vet clinics, then ads will be available in buy/sell option.			Buy/Sell.Contact.How it Works.
FR1.4	User Shall be able to find desired pet via filters according to different attribute	Functional Requirements	Filters.	User could search pets according to: Breed Name Age Category Location Price
FR1.5	The User shall be able to see recommendations of products and website details.	Functional Requirements	Home page.	Initially random products will be shown at home page but after sometime when user search something recommendation will be shown on user-based search history
FR1.6	User Shall be able to find desired product according to different categories of food and accessories.	Functional Requirements	Food and accessories	User could search product using product name or keywords.
FR1.7	User shall be able to find contact number, address and location of affiliated vet.	Functional Requirements	Vet Clinics	Name.City.
FR1.8	User shall be able to post ads of his pets according to different pet categories.	Functional Requirements	Pet Sell and purchase	 Pet for. Color. Group. Price. Pet Type. Gender.

				• Age.
FR1.9	User shall be able to post ads of his pets for mating/stud purpose.	Functional Requirements	Pet Sell and purchase	Ads category • Sale/Purchase • Mating
FR1.10	User shall be able to search Food and Accessories for different pets.	Functional Requirements	Search bar	Product Name.Pet Category.Keywords.
FR1.11	User shall be able to search pet and mating partner.	Functional Requirements	Search bar	Keyword.Pet Category.Location.Price.
FR1.12	The user shall be able to add different products into cart.	Functional Requirements	Cart	• Add Cart.
FR1.13	User have to fill shipping information before check out.	Functional Requirements	Order placement	 Name. Email. City. Address. Phone. Country.
FR1.14	User shall be able to fill a form for pet relocation and pet Care service.	Functional Requirements	Pet relocation and Pet care.	 Pet Name. Pet Owner Name. Pet Owner Address. City. Contact Number.
FR1.15	The user shall be able to view contact us page in case of any query or details.	Functional Requirements	Contact us.	Full Name.Email.Subject.Message.
FR1.16	The admin shall be able to approve ads before making it live.	Functional Requirements	Admin Panel	View assigned adds on Buy/Sell page.

FR1.17	The admin shall be able to update product stock.	Functional Requirements	Admin Panel	Update Stock.
FR1.18	The admin shall be able to post new product.	Functional Requirements	Admin Panel	Update Product.List new Product.
FR1.19	The admin shall be able to post blogs and event.	Functional Requirements	Admin Panel	Post blogPost new Event
FR1.20	The admin shall be able to add and delete new categories.	Functional Requirements	Admin Panel	Add CategoriesDelete Categories
FR1.21	The admin shall be able to manage Users.	Functional Requirements	Admin Panel	Delete Users from the system.
NR2.1	Performance of the system.	Non- Functional Requirements	Interface	 This system should respond promptly.
NFR2.2	Usability of the system.	Non- Functional Requirements	Interface	This system should easy to use and understand.
NFR2.3	Accuracy of the system.	Non- Functional Requirements	Interface	This system will give accurate and precise results on searching.
NFR2.4	Adaptability of the system.	Non- Functional Requirements	Interface	 This system will easily available to operate and use.
NFR2.5	Correctness of the system.	Non- Functional Requirements	Interface	This system will fulfil all the functional and non-functional requirements
NFR2.6	Portability of the system.	Non- Functional Requirements	System compatibility	The system is expected to run from every browsing devices such laptop, mobile, tablets, desktop PC's etc.
PR3.1	Web development tools	Programming Requirements	Developing site	PHP / Laravel

				Vs code, Git Hub
				Xamp / My Sql
DR4.1	Data store in	Data	Storage	
	MySQL.	Requirements	resource	MySQL Server will
				be used for this
				purpose.

3.2 List of Actors

- Buyer
- Seller
- Admin

3.3 List of use cases

- User Registration
- User Login
- Buy Pet Food
- Buy Pet Accessories
- Buy Pet
- Post Ad
- View Products
- Search Products
- Apply Filters
- Add to Cart
- View Cart
- Check Out
- View Total Orders
- View Recent Orders
- Get Quotation for Relocation/Care
- View Vet Clinics
- Managing Ads
- Add/Update product
- View Orders
- View Payment
- Posting Blogs

3.4 System use case diagram

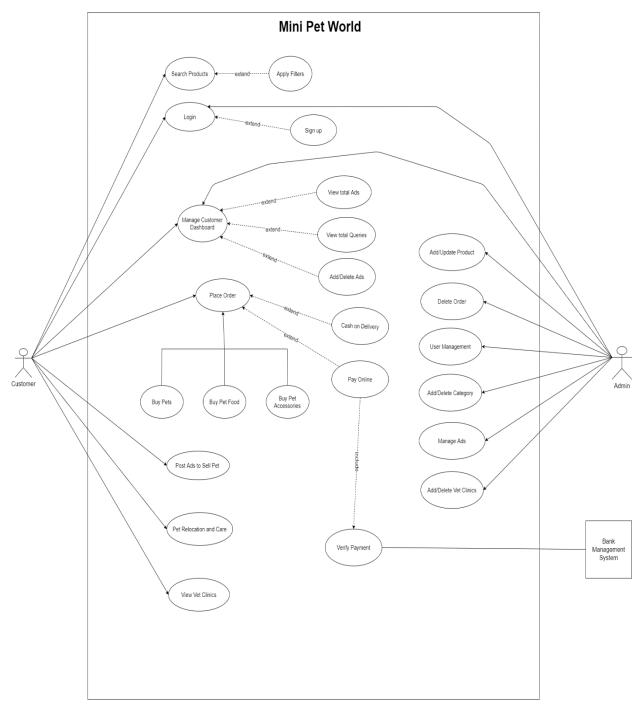


Figure 1: Use Case Diagram of whole system

3.5 Use Cases

Table 6: User Registration

Use Case ID:	UC-1							
Use Case Name:	User Registration							
Created By:	Muhammad Ali	Muhammad Ali Last Updated By: Muhammad Ali						
Date Created:	10-march-2021	Last Revision Date:	26-march-2021					
Actors:	Customer							
Description:		ike Name, Email and P	existing system. It requires the user to assword. An account will be created					
Trigger:	When User will click on	Register/Sign Up						
Preconditions:	User must have							
Post conditions:	User Must verify	y his email to enter into t	the system					
Normal Flow:	 User enters Name. User enters Email. User enters Password. User signs up for an account. User has created an account. 							
Exceptions: Frequency of Use:	 In previous step if the email does not match to the email pattern it'll throw error. If Password is less than 8 characters, it'll throw error If email already exists it will throw error 80 to 100 times a week 							

Table 7: User Login

Use Case ID:	UC-2					
Use Case Name:	User Login					
Created By:	Muham	mad Ali	Last Updated By:	Muhammad Ali		
Date Created:	10-marc	ch-2021	Last Revision Date:	19-march-2021		
Actors:	Custom	er				
Description:	This step is applicable only when a user is already registered in this system. The user enters an Email and Password and logs in the system.					
Trigger:	Click or	n "Login".				
Preconditions:	User must have registered in the system already.					
Post conditions:	The user should be logged in this website's account to use its services.					
Normal Flow:	 User enters Email and Password. System recognizes the user and allows access. User logs in his account. 					

Exceptions:	 If user put wrong email or password system will throw error. If user try to login with unregistered email system will throw error
Frequency of Use:	100 to 150 times a day

Table 8: Buy pet food

Use Case ID:	UC-3					
Use Case Name:	Buy Pet Food					
Created By:	Muham	mad Ali	Last Updated By:	Muhammad Ali		
Date Created:	10-marc	ch-2021	Last Revision Date:	20-march-2021		
Actors:	Custom	er				
Description:			y his desired items for find his desired product of	r his pet. User can search different of pet food.		
Trigger:	Click or	n "Pet Store".				
Preconditions:	•	User must be lo	g in.			
Post conditions:	User must add items to his cart to buy the products.					
Normal Flow:	1) User Opens the website					
	2) Visit the pet store					
	3)	Search his desir	ed items			
	4)	View food items	S			
	5)	Add his desired	items to cart			
	6)	Place his order				
	7) Checkout from cart					
Exception	User should be logged in					
Frequency of Use:	100 to 1	50 times a day				

Table 9: Buy pet accessories

Use Case ID:	UC-4				
Use Case Name:	Buy Pet Accessories				
Created By:	Muhammad Ali	Last Updated By:	Muhammad Ali		
Date Created:	10-march-2021	Last Revision Date:	18-march-2021		
Actors:	Customer				
Description:	It'll benefit the user to buy his preferred items for his pet. User can search different categories and brands to find his desired product of pet accessories.				
Trigger:	Click on "Pet Store".				
Preconditions:	User must be log in.				
Post conditions:	User must add items to his cart to buy the products.				

Normal Flow:	1) User Opens the website
	2) Visit the pet store
	3) Search his desired items
	4) View pet accessories
	5) Add his desired items to cart
	6) Place his order
	7) Checkout from cart
Exception	User Should be logged in.
Frequency of	100 to 150 times a day
Use:	

Table 10: Post ad

Use Case ID:	UC-5			
Use Case Name:	Post Ad			
Created By:	Ammar Ghafoor Last Updated By: Ammar Ghafoor			Ammar Ghafoor
Date Created:	10-marc	ch-2021	Last Revision Date:	17-march-2021
Actors:	Seller			
Description:		n Email and Pass		ly registered in this system. The user em. It'll help the user to post his pet's
Trigger:	Click or	ı "Post ad".		
Preconditions:	The user should be logged in this website's account to use this feature.			
Post conditions:	User must submit the ad for admin's approval.			
Normal Flow:	 User click on the post ad feature Fill all the details about the pet Upload pictures Submit ad 			
Exceptions:	 User must select right category User must ad required size of pictures. No field should remain empty. 			
Frequency of Use:	100 to 150 times a day			

Table 11: Add to cart

Use Case ID:	UC-6		
Use Case Name:	Add to Cart		
Created By:	Hamid Ali	Last Updated By:	Hamid Ali
Date Created:	10-march-2021	Last Revision Date:	22-march-2021
Actors:	Customer		
Description:	This feature allows user items on view cart page.	to create a temporary list	t of items. User can check this list of

Trigger:	Click on "Add to Cart".		
Normal Flow:	 User Open website Click on any product Click on "Add to Cart" System will add those items on Cart 		
Exceptions:	User must select any product from store		
Frequency of Use:	110 to 170 times a day		

Table 12: View Cart

Use Case ID:	UC-7			
Use Case Name:	View Cart			
Created By:	Ammar Ghafoor	Last Updated By:	Ammar Ghafoor	
Date Created:	10-march-2021	Last Revision Date:	15-march-2021	
Actors:	Customer			
Description:	_	This step allows the user to see the complete detail of the list of products who they have added recently from the store. User can check this feature even without log in to the account		
Trigger:	Click on "View Cart".			
Normal Flow:	 User Open website Click on any product Click on "Add to Cart" System will add those items on Cart Click on "View Cart" System will show the complete details of selecting products 			
Exceptions:	 User must select any product from the store User must check the quantity of each product 			
Frequency of Use:	110 to 170 times a day			

Table 13: Add/Update Product

Use Case ID:	UC-8		
Use Case Name:	Add/Update Product		
Created By:	Ammar Ghafoor	Last Updated By:	Ammar Ghafoor
Date Created:	10-march-2021	Last Revision Date:	19-march-2021
Actors:	Administrator		
Description:			e for adding new products which are pupdate the status of products which

Trigger:	This case is initiated when the administrator is updating/adding new Products.		
Preconditions:	 Administrator should have access to making changes. 		
	Administrator must have click on "add/update product"		
Post conditions:	The administrator has added/ updated the products.		
Normal Flow:	1) Administrator opens the backend of the website.		
	2) Administrator adds/updates the products.		
Exceptions:	In step 1 of the Normal Flow, administrator is not allowed to access the backend.		
_	In step 2 of the Normal Flow, administrator makes an error and now the add/update part		
	is not available.		
	1) System has a logical error and so no warning is given.		
	2) Administrator repairs the fault.		
	3) System is running smoothly again.		
Frequency of	15 to 30 times a day		
Use:			

Table 14: View Payment

Use Case ID:	UC-9		
Use Case Name:			
Created By:	Ammar Ghafoor	Last Updated By:	Ammar Ghafoor
Date Created:	10-march-2021	Last Revision Date:	25-march-2021
Actors:	Administrator		
Description:	This step describes that the payments of orders.	e administrator has autho	ority to see the complete details about
Trigger:	This case is initiated whe	n the administrator has o	ppened details of view payment.
Preconditions:	Administrator should have access to see detail of payments.		
Post conditions:	The administrator has view details of total earning.		
Normal Flow:	 Administrator click on "view payment". Administrator see details about payment of all orders. 		
Exception	Admin can't change payment details.		
Frequency of Use:	20 to 30 times a day		

Table 15: View Products

Use Case ID:	UC-10
Use Case Name:	View Products

Created By:	Hamid Ali	Last Updated By:	Hamid Ali
Date Created:	13-march-2021	Last Revision Date:	22-march-2021
Actors:	Customer		
Description:		•	User can see detailed description of even without log in to the account.
Trigger:	Click on "Any Product".		
Normal Flow:	User Open website Click on any product to view details		
Exceptions:	User cannot buy product or add to cart product without log in to system.		
Frequency of Use:	100 to 150 times a day		

Table 16: Search Product

Use Case ID:	UC-11		
Use Case Name:			
Created By:	Hamid Ali	Last Updated By:	Hamid Ali
Date Created:	13-march-2021	Last Revision Date:	16-march-2021
Actors:	Customer		
Description:	This feature allows user to search products. User can check this feature even without log in to the account.		
Trigger:	Click on "Search".		
Normal Flow:	User Open website Click on search button for to search any product		
Exceptions:	User must enter right name of product. Only Alphabetical search could be performed		
Frequency of Use:	100 to 150 times a day		

Table 17: Apply Filters

Use Case ID:	UC-12		
Use Case Name:	Pet Relocation and Care		
Created By:	Hamid Ali	Last Updated By:	Hamid Ali
Date Created:	10-march-2021	Last Revision Date:	19-march-2021
Actors:	Customer		
Description:	If user want to relocate hi	is pet or wants someone	to take care of his pet. He can fill the
_	form for Queries	-	-
Trigger:	Click on "Pet Relocation	and care".	

Normal Flow:	1) User Open website			
	2) Click on Pet relocation and care to fill the form.			
Exceptions:	User must fill all the fields			
Frequency of Use:	10 to 40 per week			

Table 18: Admin Panel

Use Case ID:	UC-13			
Use Case Name:	Admin panel			
Created By:	Muhammad Ali	Last Updated By:	Hamid Ali	
Date Created:	10-march-2021	Last Revision Date:	19-march-2021	
Actors:	Admin			
Description:	Admin can manage whole best site from this feature he can manage users, Add or delete categories post new blog and events			
Trigger:	Access by link to open admin login page.			
Normal Flow:	Admin has a separate link to access his panel.			
Exceptions:	Person must be authorized			
Frequency of Use:	90 to 100 per week			

3.6 User interfaces (mock screens)



Figure 2: Home Page





Figure 3: Blog and Event

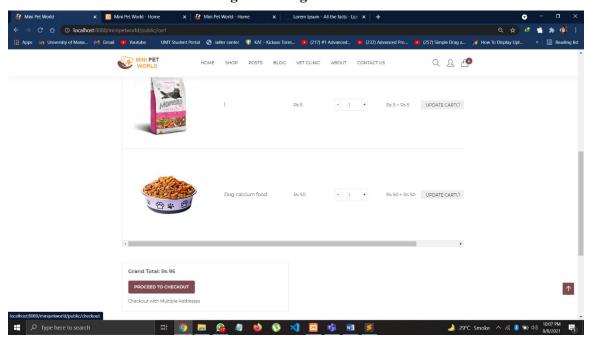


Figure 4: Cart

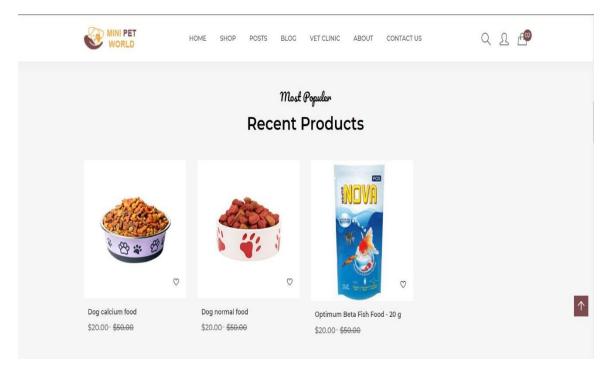


Figure 5: Recent Products



Figure 6: Admin Panel

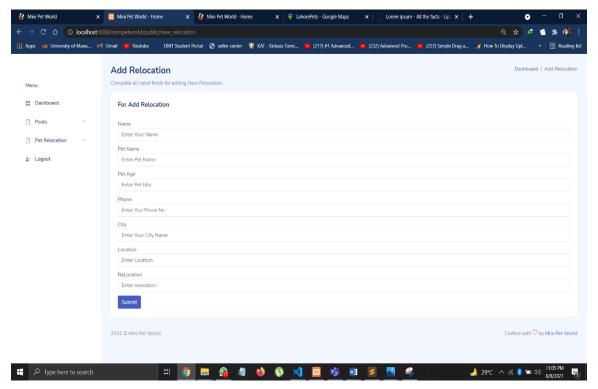


Figure 7: Pet Relocation

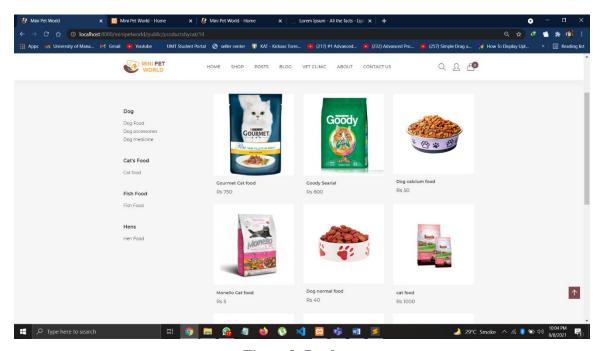


Figure 8: Products

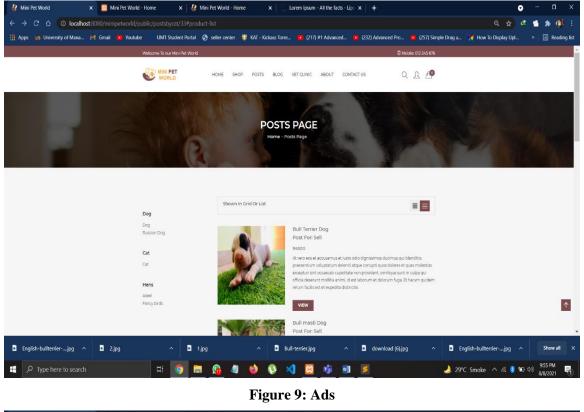




Figure 10: Single Ad

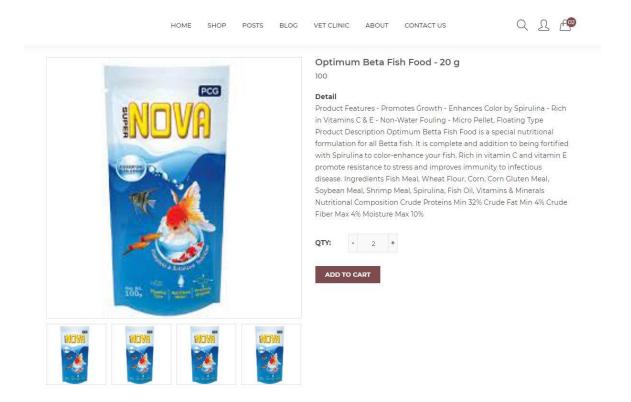


Figure 11: Single Product

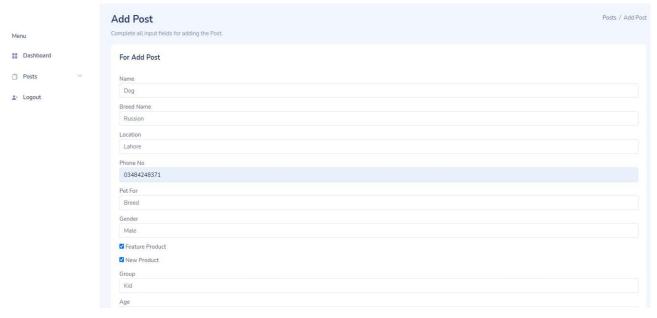


Figure 12: Ad post Form

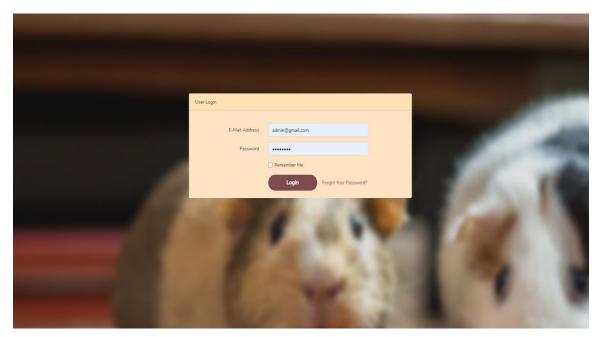


Figure 13: Login

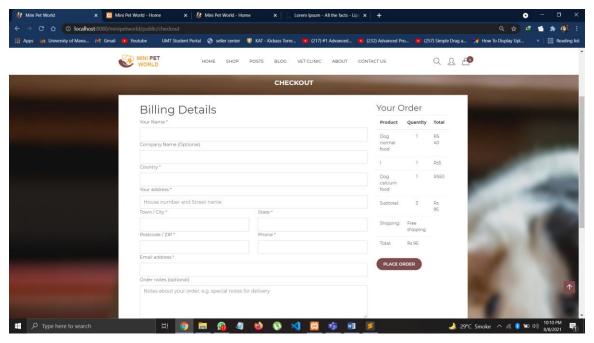


Figure 14: Check Out





Welcome To our Mini Pet World

Figure 15: Search Page

Mobile: 012 345 678

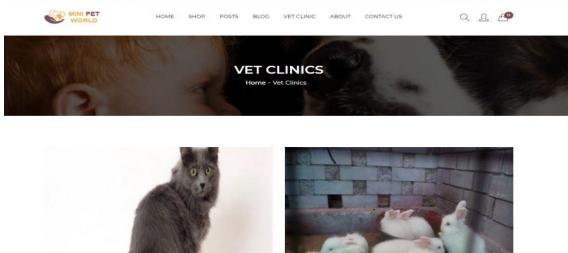




Figure 16: Vet Clinics

4. DATA FLOW DIAGRAM (OPTIONAL)

4.1 Data Flow Diagram Level 0

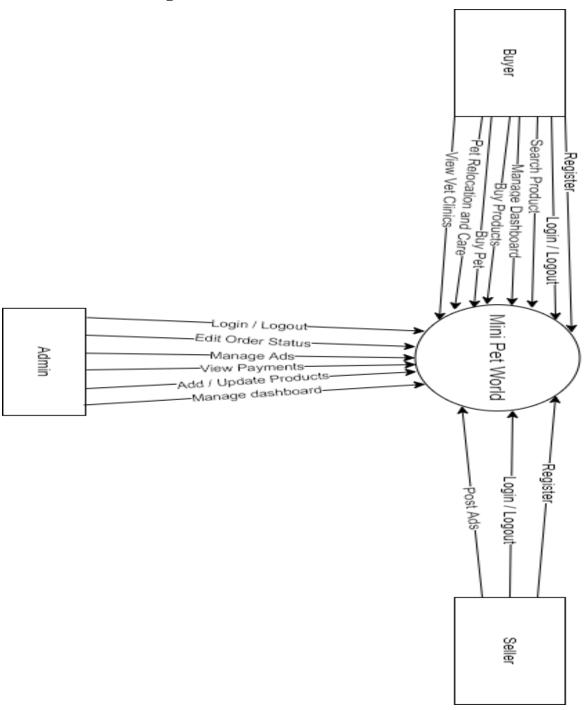


Figure 17: Level 0 DFD

4.2 Data Flow Diagram Level 1

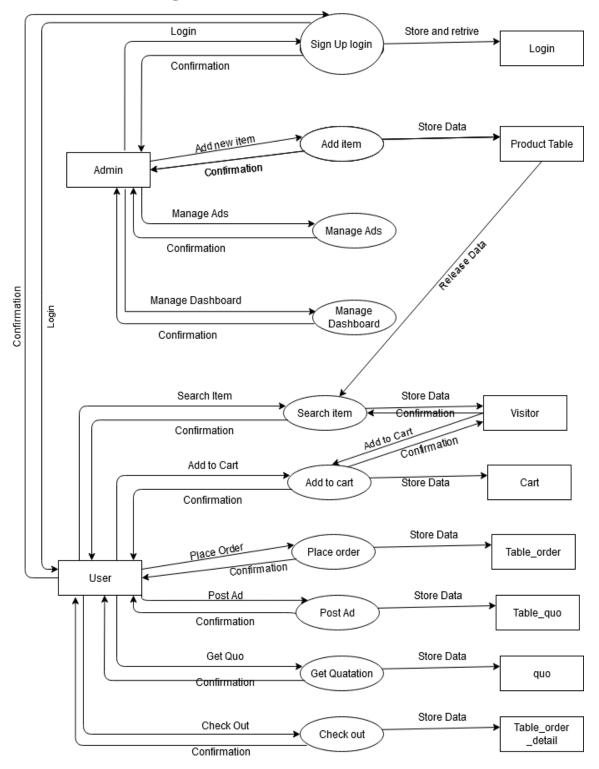


Figure 18: Level 1 DFD

4.3 Data Flow Diagram Level 2

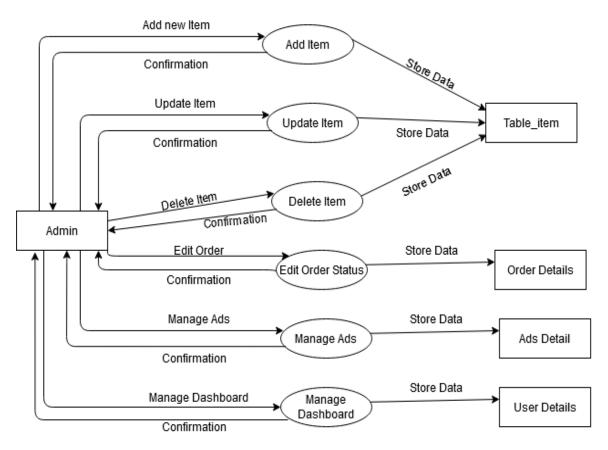


Figure 19: Level 2 DFD

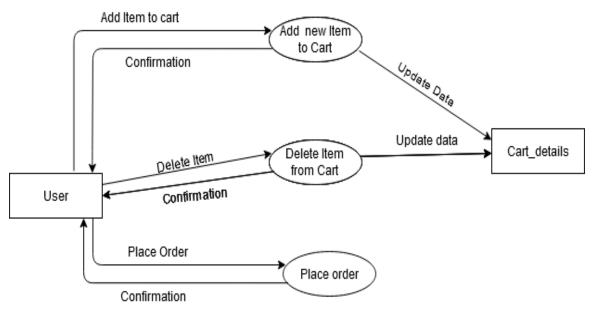


Figure 20: Level 2 DFD

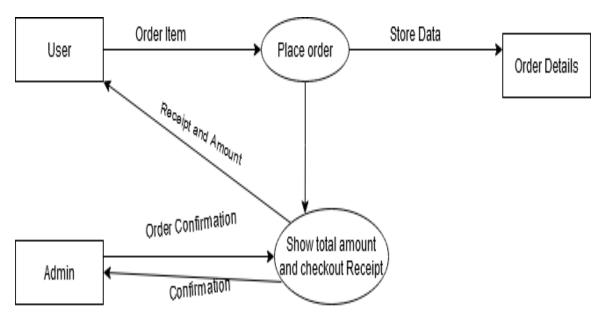


Figure 21: Level 2 DFD

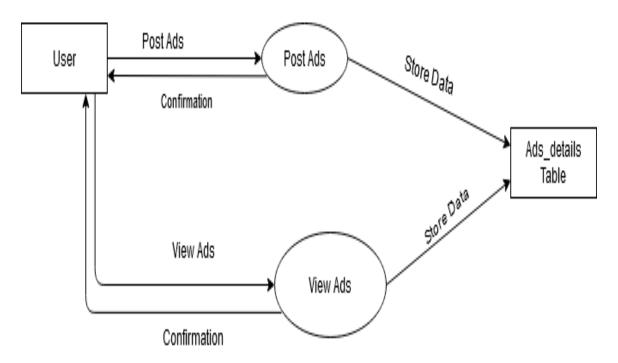


Figure 22: Level 2 DFD

System Architecture Diagram 5.1 Mini Pet World User/customer can buy or sell petss Sends a mail to Can view add and pet store Mini Pet interface user can upload Add Connected to Bank "-Validate banking and can buy food and data accessories for pets To check the given information of user for banking transaction. Get information from database Database connection Store all the core information about user's and buying, selling etc.

Figure 23: System Architecture Diagram

5.2 Class Diagram

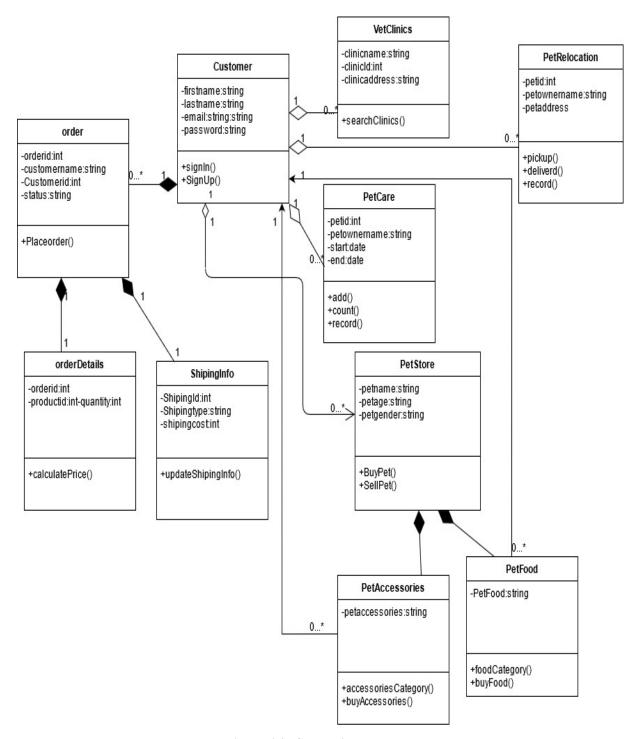


Figure 24: Class Diagram

5.3 Sequence Diagrams

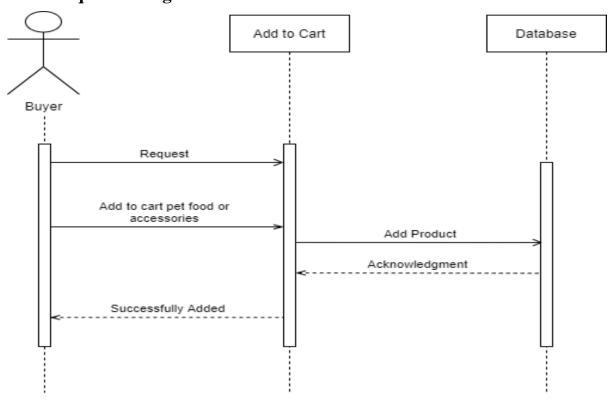


Figure 25: Add to cart Sequence Diagram

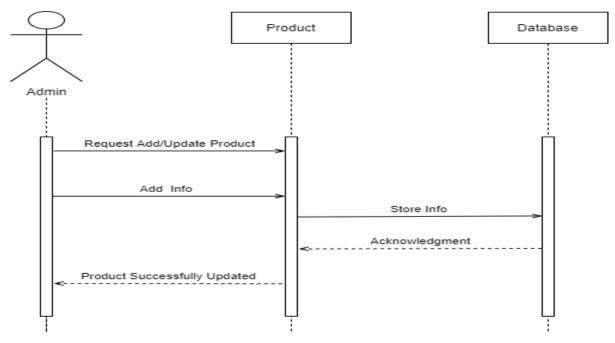


Figure 26:Update/add Product Sequence Diagram

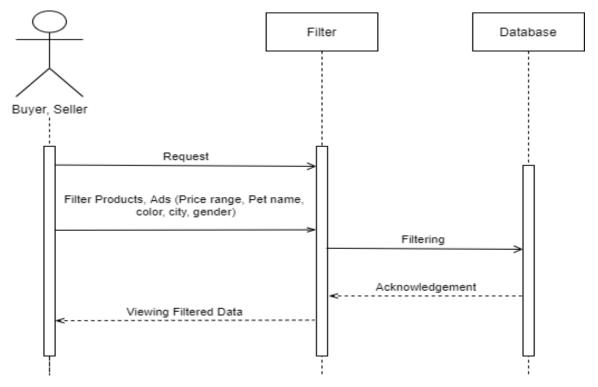


Figure 27:Apply Filter Sequence Diagram

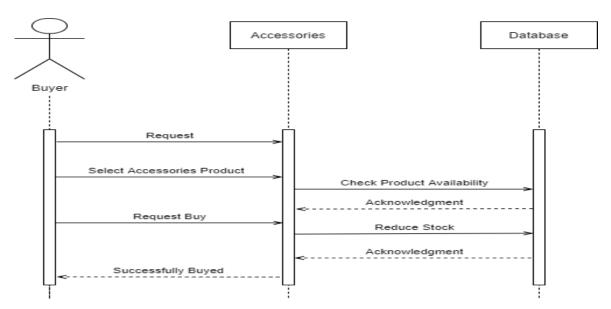


Figure 28:Buy Accessories Sequence Diagram

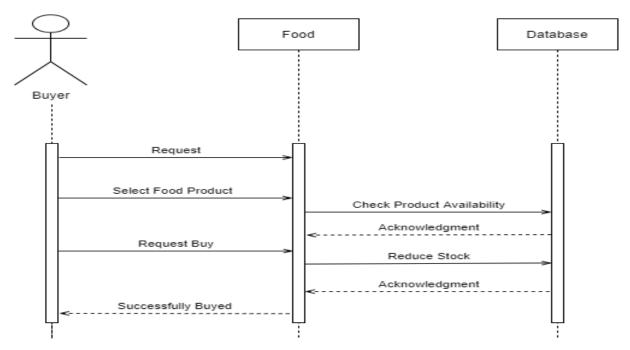


Figure 29: Buy Food Sequence Diagram

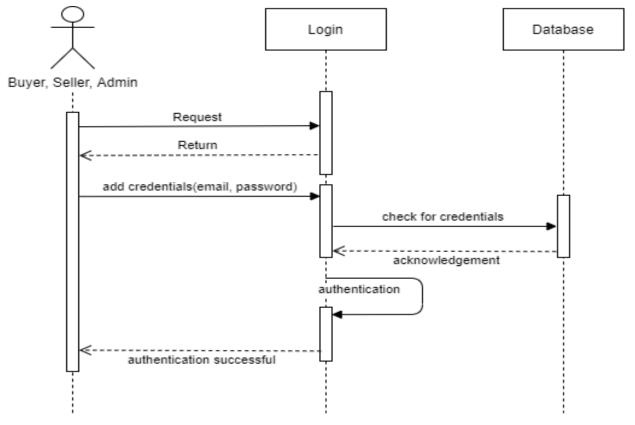


Figure 30: Login Sequence Diagram

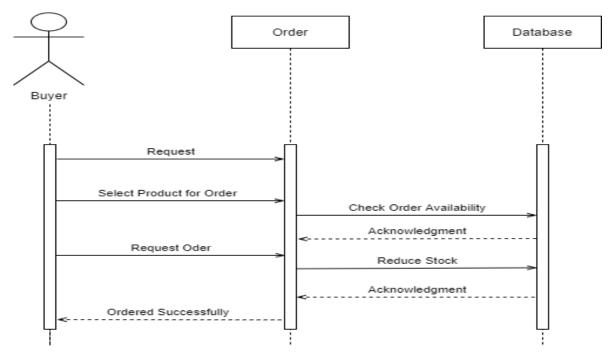


Figure 31: Order Sequence Diagram

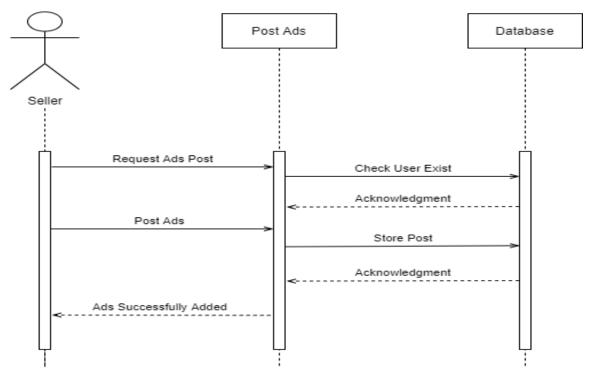


Figure 32: Post Ads Sequence Diagram

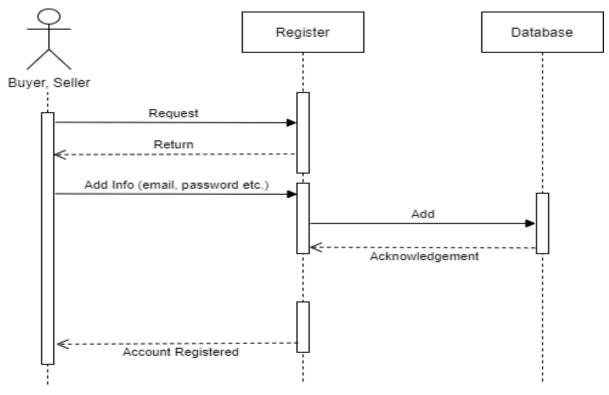


Figure 33: Register Sequence Diagram

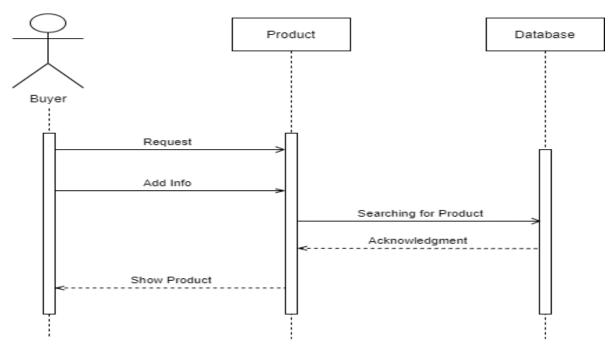


Figure 34: Search Product Sequence Diagram

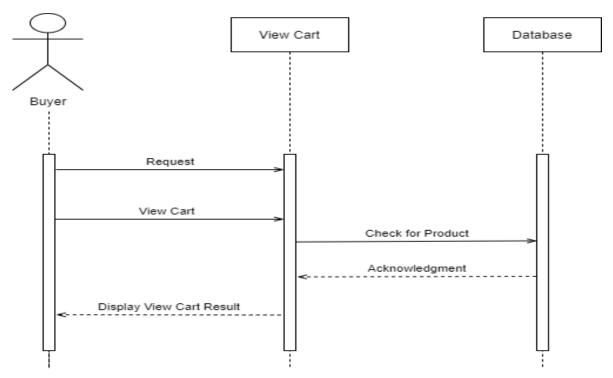


Figure 35: View Cart Sequence Diagram

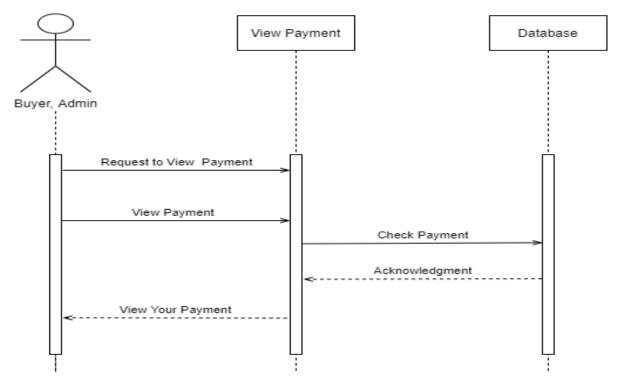


Figure 36: View Payment Sequence Diagram

5.4 Collaboration Diagrams



Figure 37: Add to cart Collaboration Diagram

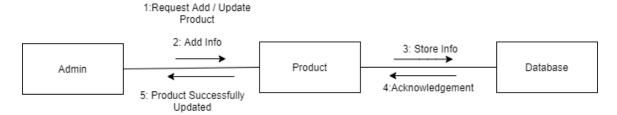


Figure 38: Add/update product Collaboration Diagram

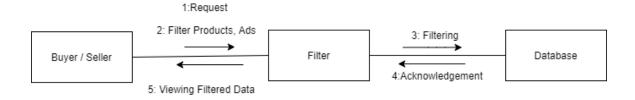


Figure 39: Apply filters Collaboration Diagram

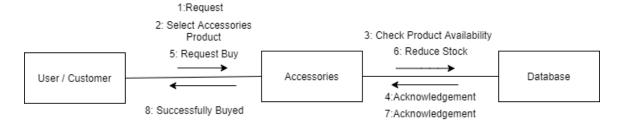


Figure 40: Buy accessories Collaboration Diagram

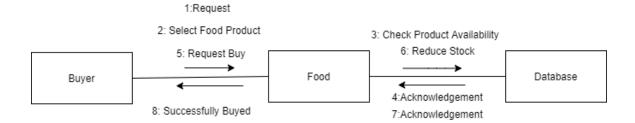


Figure 41: Buy food Collaboration Diagram

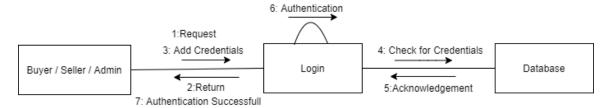


Figure 42: Login Collaboration Diagram

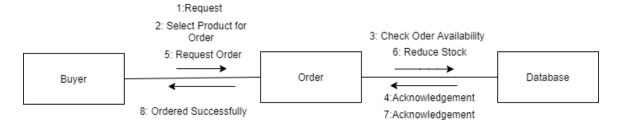


Figure 43: Place Order Collaboration Diagram



Figure 44: Post ads Collaboration Diagram



Figure 45: Register user



Figure 46: Search product Collaboration Diagram



Figure 47: View Cart Collaboration Diagram



Figure 48: View Payment Collaboration Diagram

5.5 **ERD**

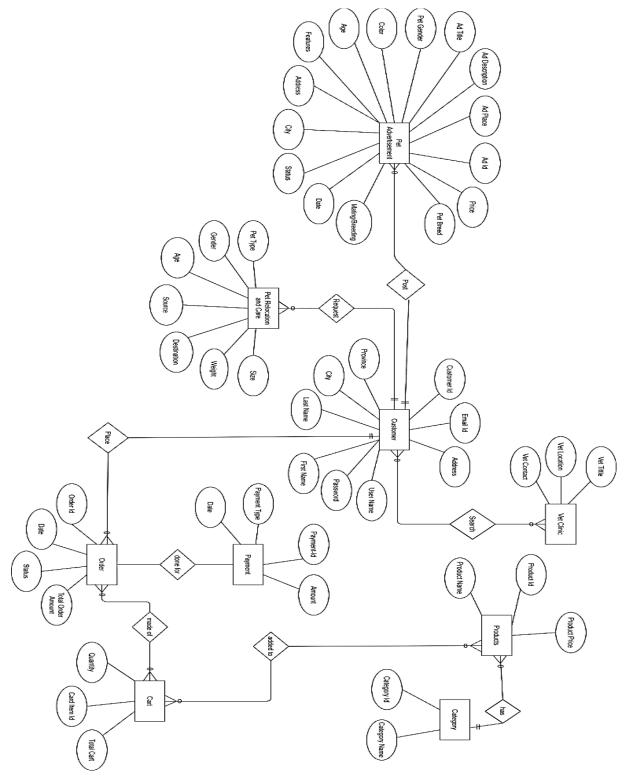


Figure 49: ERD

5.6 Data Dictionary

Table 19: Data Dictionary

Element Name	Type	Remarks
First Name	string	This is user's first name
Last Name	string	This is user's last name
Email	email	This is user's email
Phone	numbers	This is user's phone #
Password	string	This is user's password
Confirm Password	string	The user will confirm password that it matches to the above entered password
Search field	string	Customer can search pets for selling and pet food and accessories
Nick Name	string	This is the nick name for the pet you are selling
Price	number	The price of pet which are you selling
Pet Breed	String	Which type of breed of your pet that you are selling
Ad description	String	Write the description of your pet
Ad Title	String	Title of your Ad that may be price or the name of your pet
Pet Gender	String	Select the gender of your pet that are you selling or buying
Age	number	Write the Age of your pet while uploading Ad
Features	String	Here You can write the features of your pet that make your pet special for buyer
Address	String	Write address where do you live
City	String	You can choose your city
Pet type	String	Select the type of your pet like dog, cat etc.
Destination	String	Where do you want to relocate your pet
Vet Title	String	Here you will see the name of Vet clinics
Vet Location	String	Here you can see the address of specific vet clinic
Vet Contact	number	Here you will see the contact details of vet clinic
Product Name	String	The name of the product
Product Price	number	Here you can see the price of your product that you are buying
Amount	number	Total amount of your order
Cart Item ID	number	Here you can see the specific id that will be assign to your cart item
Total Cart Items	number	Here you can see the total item you have add in cart
Order ID	number	The Specific number or Id will assign to your order
Order Amount	number	Here you can see the total amount of your order

6. IMPLEMENTATION DETAILS

6.1 Development Setup

Programming Language: PHP, Laravel MVC Framework, HTML, CSS, JavaScript

Hardware: PC, Mobile Browser

Database: MySQL

Tools: Visual Studio, Sublime, Git hub, XAMPP Server

6.2 Deployment setup

We have not yet deployed our website.

6.3 Algorithm

We have not used any particular algorithm. We have used PHP and Laravel framework to implement all our functionalities.

6.4 Constraints

6.4.1 Assumptions

- Systems with appropriate user interfaces will be available for users and admin perform their required task.
- Mini pet world staff will be available to deliver all orders to customer within 24 hours.
- User have knowledge how to use this system.

6.4.2 Restrictions

- User cannot directly add posts without admin's permission
- User have to login Before buying Product
- User have no right to modify add or delete products and categories

6.4.3 Limitations

- Only Admin can enter products
- Only Admin can approve or reject the Ads
- Customers cannot have access admin features

7. Testing

7.1 Test Cases

Table 20: User Registration

Test Case ID: TID-01	Test Design By: Ammar Ghafoor
Test Module Name: User Registration	Test Design Date: 28/07/2021
Test Priority: High	Test Executed By: Muhammad Ali
Test Title/Name: To test registration button	Test Executed Date: 29/07/2021

Description: Check customer enrollment with substantial information

Pre-Condition:

1. User must have valid email.

Dependencies: Customer should have a substantial email id

Step	Test Step	Test Data	Expecte d Result	Actual Result	Status (Pass/Fail	Notes
1	Go to MinipetWorld website					
2	Open the registration page					
3	Fill the fields in the registration form				Pass	
3	Enter Full Name	Muhammad Ali				
4	Enter Email address	F2017266016@umt.edu. pk				

5	Password	Ali123			
6	Confirm Password	Ali123			
4	Click on Register Button		The client can make another record of the database	Customer successfully registered his account	

Post-Condition: User Must verify his email and password to enter into the system

Table 21: User Login

Test Design Date: 28/07/2021
Test Executed By: Muhammad Ali
Test Executed Date: 29/07/2021

Description: The login button will provide Login information

Pre-Condition:

1. User must have valid email.

Dependencies: None

Step	Test Step	Test Data	Expected Result	Actual Result	Status (Pass/Fai l)	Notes
1	Go to MinipetWorld website					
2	Open the login page					

3	Fill the fields	Email: F2017266016@umt.edu.				
	in the	pk				
	registration form	Password: Ali123			Pass	
4	Click on login		home	Customer		
	Button		page of	logged in		
			the site	successfu		
			will be	lly		
			shown			
D 4 C	1040 ID1	1 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		·, ·	l	l

Post-Condition: The user should be logged in this website's account to use its services

Table 22: Buy pet food

Test Case ID: TID-03	Test Design By: Ammar Ghafoor
Test Module Name: Buy Pet Food	Test Design Date: 28/07/2021
Test Priority: High	Test Executed By: Muhammad Ali
Test Title/Name: To Buy Pet Food	Test Executed Date: 29/07/2021

Description: All information which is related to pet food will be available on this page

Pre-Condition:

1. Customer should be login

Dependencies: None

Step	Test Step	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Go to Mini Pet World website					
2	Click on Shop				Pass	

3	Click on Pet		Pet	food	The				
	Food		product	S	customer				
			will	be	will				
			shown		purchase the				
					products				
Post-Co	Post-Condition: User must add items to his cart to buy products.								

Table 23: Buy pet accessories

Test Case ID: TID-04	Test Design By: Ammar Ghafoor
Test Module Name: Buy Pet Accessories	Test Design Date: 28/07/2021
Test Priority: High	Test Executed By: Muhammad Ali
Test Title/Name: To Buy Pet Accessories	Test Executed Date: 29/07/2021

Description: All information which is related to pet accessories will be available on this page

Pre-Condition:

1. Customer should be login

Dependencies: None

Step	Test Step	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Go to Mini Pet World website					
2	Click on shop				Pass	
3	Click on Pet Accessories		Pet accessories products will be shown	The customer will purchase the products		

Post-Condition: User must add items to his cart to buy the products.

Page | 51 Mini Pet World

Table 24: Post Ad

Test Case ID: TID-05	Test Design By: Hamid Ali
Test Module Name: Post Ad to sell pets	Test Design Date: 28/07/2021
Test Priority: High	Test Executed By: Ammar Ghafoor
Test Title/Name: To test Post Ad button	Test Executed Date: 29/07/2021

Description: To test if Post Ad button is working fine customer/user have to click on it

Pre-Condition: Customer must be logged in and device should be connected to the internet.

Step	Test Step	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Note
1	Navigate to Ad posting page		TRESULT.	Result	(1 4359,1 411)	
2	User must have fill the form about Ad	Pet age Pet color Pet gender Pet type Etc.				
3	Click on Post Ad Text field				Pass	
4	Click on Post Ad button		After clicking on Post Ad button the Ad will sent to admin for approval	will be active after approval of	rass	

Post Condition: User must submit the ad for admin's approval

Table 25: Add to cart

Test Case ID: TID-06	Test Design By: Hamid Ali
Test Module Name: Add to Cart	Test Design Date: 28/07/2021

Test Priority: High
Test Executed By: Ammar Ghafoor

Test Title/Name: To test Add to Cart button
Test Executed Date: 29/07/2021

Description: To test if Add to cart button is working fine customer/user have to click on it

Pre-Condition: Customer must have an account and click on product to add to cart and device should be connected to the internet.

Test Step	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Note
Navigate to Product page					
Click on Add to Cart Text field					
User must have fill the form in desire format					
Click on Add to Cart button		After clicking on Add to cart the product added to cart	Desire product will be added to cart	Pass	
	Navigate to Product page Click on Add to Cart Text field User must have fill the form in desire format Click on Add	Navigate to Product page Click on Add to Cart Text field User must have fill the form in desire format Click on Add	Result Navigate to Product page Click on Add to Cart Text field User must have fill the form in desire format Click on Add to Cart button After clicking on Add to cart the product added to	Result Navigate to Product page Click on Add to Cart Text field User must have fill the form in desire format Click on Add to Cart button After clicking on Add to cart the product added to Cart	Navigate to Product page Click on Add to Cart Text field User must have fill the form in desire format Click on Add to Cart button After clicking on Add to cart the product added to cart

Post Condition: User must be register user.

Table 26: View Cart

Test Case ID: TID-07	Test Design By: Hamid Ali
Test Module Name: View Cart	Test Design Date: 28/07/2021
Test Priority: High	Test Executed By: Ammar Ghafoor
Test Title/Name: To test View Cart	Test Executed Date: 29/07/2021
button	

Description: To test if View cart button is working fine customer/user have to click on it

Pre-Condition: Customer must have an account and cart one or more products and device should be connected to the internet.

Step	Test Step	Test Data	Expected	Actual	Status	Note
			Result	Result	(Pass/Fail)	

1	Navigate to Product page	
2	Click on Add to Cart button	
3	User/Customer click on view cart text field	Pass
4	Click on View Cart button	After clicking on View cart user will they have added redirected to view cart page User/Customer will able to see the products that they have added in cart
Post C	Condition: User must be moved	to checkout form.

Table 27: Add/Update product

Test Case ID: TID-08			Test Design By: Hamid Ali				
Test M	odule Name: A	Add/Update	Test Design Date:	28/07/2021			
Product		-					
Test Priority: High			Test Executed By	: Ammar Gha	foor		
Test	Test Title/Name: To test		Test Executed Dat	Test Executed Date: 29/07/2021			
Add/Up	date Product						
Descrip	tion: This step	says that the	administrator is responsible for adding new products which are				
constant	tly changing. Mo	oreover, The	y also have to update	the status of p	products which are	out of stock.	
• 1	Administrator sho	uld have acc	ess to making changes.				
 Administrator must have click 			on "add/update produc	t"			
Step	Test Step	Test Data	Expected	Actual	Status	Note	
			Result	Result	(Pass/Fail)		

1	Navigate to Admin page					
2	Click on the Add/Update product				Pass	
3	Fill the form in desire format	Product name: Product price: Product Category: Etc.				
4	Click on Add/Update Product Button		After clicking on Add/Update product may be updated	The product will be added or updated		

Table 28: View Payments

Test Case ID: TID-10	Test Design By: Muhammad Ali		
Test Module Name: View Payments	Test Design Date: 28/07/2021		
Test Priority: High	Test Executed By: Hamid Ali		
Test Title/Name: View Payments	Test Executed Date: 29/07/2021		
Description: Admin should be able to view all the transaction history.			

Pre-Condition:

1. Admin should be logged in

2. Internet is accessible.

Dependencies: None

Step	Test Step	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Open the Admin panel					
2	Select Payments option		All the transaction information will be loaded.	All the transaction information will be loaded.	Pass	
Post-Co	ndition: All the tran	saction information	has been loaded	İ.	1	

Table 29: View Product

Test Case ID: TID-11	Test Design By: Muhammad Ali
Test Module Name: View Product	Test Design Date: 28/07/2021
Test Priority: High	Test Executed By: Hamid Ali
Test Title/Name: View product	Test Executed Date: 29/07/2021

Description: Customer Should be able to view products even if he is not login.

Pre-Condition:

Internet is accessible.

Dependencies: None

Step	Test Step	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Open the Mini Pet World website				Pass	

2	Select category			Search result will be showed successfully	
3	Click on any product	Dogs food, Cat shampoo	All the product's description and details should be visible	Product has been opened in new window and all its description and details has been visible.	
Post-Con	dition: Product sh	ould be open in new	window		

Table 30: Search product and pets

Test Case ID: TID-12	Test Design By: Muhammad Ali
Test Module Name: Search Products and Pets	Test Design Date: 28/07/2021
Test Priority: High	Test Executed By: Hamid Ali
Test Title/Name: Testing Search products and Pet ads	Test Executed Date: 29/07/2021

Description: Each and every product should be search able by the keywords

Pre-Condition:

• Internet is accessible.

Dependencies: None

Step	Test Step	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Open the website				Pass	
2	Click on Search Bar	Dogs Collar, Cat food, Russian Dog	Search result screen will be opened	Search result will be showed successfully		

Post-Condition: Search result screen will be opened

Table 31: Pet Care and Relocation

Test Case ID: TID-09	Test Design By: Muhammad Ali
Test Module Name: Pet Care and relocation	Test Design Date: 28/07/2021
Test Priority: High	Test Executed By: Hamid Ali
Test Title/Name: Pet Care and relocation	Test Executed Date: 29/07/2021

Description: User should be able to post Queries about his pet's relocation and care.

Pre-Condition:

3. User should be logged in

4. Internet is accessible.

Dependencies: None

Step	Test Step	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Open the website					
2	Click on the Pet care and relocation tab		Fill the complete form and data should be visible on admin panel.	Filled the complete form and data has been visible on admin panel.	Pass	

Post-Condition: Complete details of queries should be available on admin panel.

Table 32: Admin panel

Test Case ID: TID-13	Test Design By: Muhammad Ali
Test Module Name: Admin Panel	Test Design Date: 28/07/2021
Test Priority: High	Test Executed By: Hamid Ali
Test Title/Name: Testing Admin panel	Test Executed Date: 28/07/2021

Descript	ion: Each and every	product should be	e search able by th	ne keywords		
Pre-Con	dition:					
• ,	Admin must be logg	ed in.				
Depende	ncies: None					
Step	Test Step	Test Data	Expected	Actual	Status	Notes
			Result	Result	(Pass/Fail)	
1	Open the					
	Admin pale					
	URL.					
					Pass	
2	Log into		Each Admin	Each Admin		
	Admin panel		panel Feature	panel feature		
			Should work	has been		
			accurately	working		
				accurately.		
Post-Cor	ndition: Every featu	re produce desired	d output.	<u>I</u>	1	

7.2 Decision Table

7.2.1 Code snippet

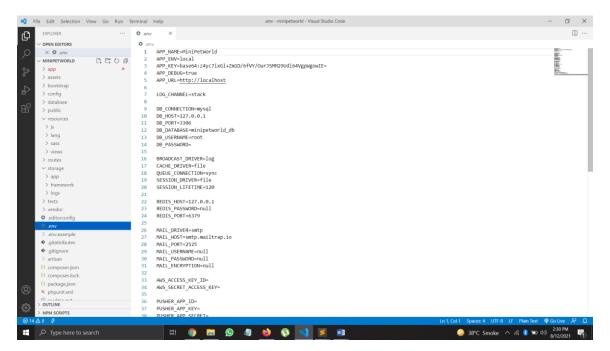


Figure 50: Database Connection

```
ズ File Edit Selection View Go Run Terminal Help
                                     login.blade.php - minipetworld - Visual Studio Code
D
    EXPLORER
                        n login.blade.php X
     OPEN EDITORS
                            @extends('layouts.app')
     MINIPETWORLD
                            @section('content')
     > app
                               style=" height: 1000px; background-image:url('{{asset('assets/img/banner/x.jpg')}}');">
     > config
     > database
> public
                               10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
                                      <div class="form-group row">
<label for="email" class="col-md-4 col-form-label text-md-right">{{ __('E-Mail Address') }}</label>
                                             @enderror
                                             </div>
                              벼 🧿 🛅 🕲 🥒 👏 📢 🗾
                                                                                           🤤 38°C Smoke 🛆 🖟 🏮 🖦 ರು) 2:31 PM 📑
   Type here to search
```

Figure 51: Login Form

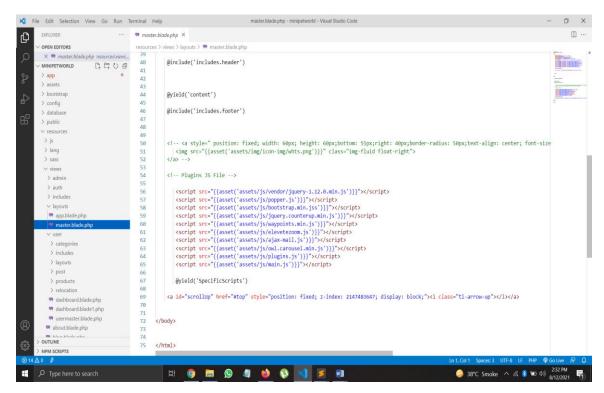


Figure 52: Master File

```
ズ File Edit Selection View Go Run Terminal Help
                                                       register.blade.php - minipetworld - Visual Studio Code
                                   🖛 register.blade.php 🗡
       EXPLORER
O
       OPEN EDITORS
                                        @extends('layouts.app')
       X * register.blade.php
                                        @section('content')
       > app
                                         > bootstrap
       > config
       > database
       > public
                                                            converse vackground-coior: #00000040;" class="card-bod/
cform method="POST" action="{{ route('register') }}">
    @csrf
        > sass
                                                               <div class="form-group row">
<label for="name" class="col-md-4 col-form-label text-md-right">{{ __('Name') }}</label>
         > admin
          > admin
                                                                   <div class="col-md-6">
                                                                       <input id="name" type="text" class="form-control @error('name') is-invalid @enderror" name="name" value="</pre>
          ∨ user
          ✓ passwords

■ email.blade.php
                                                                             <strong>{{ $message }}</strong>
                                                                          </span>
                                                                       @enderror
          m verify.blade.php
                                                               </div>
         app.blade.php
                                                               > categories
                                                                   <div class="col-md-6">
  <input id="email" type="email" class="form-control @error('email') is-invalid @enderror" name="email" val</pre>
                                             | 計 🌀 🔚 🕓 🥒 🐞 🔖 🚺 🗾
                                                                                                                                      $\int 38°C Smoke \( \sigma \) (8) \( \lambda \) (2:33 PM \\ 8/12/2021
 Type here to search
```

Figure 53: Registration Form

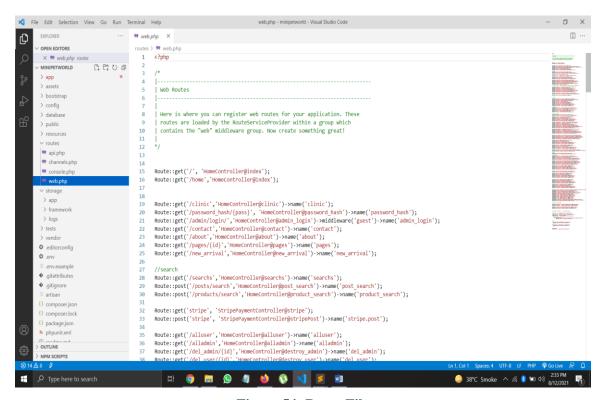


Figure 54: Routs File

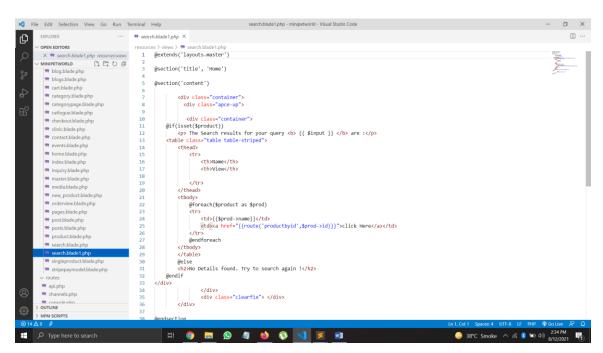


Figure 55: Search File

7.3 Traceability Matrix

7.3.1 RID vs UCID (requirements vs use cases)

UCID/RID	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
UC 1	✓																				
UC 2		✓																			
UC 3						✓															
UC 4							✓														
UC 5								✓	√												
UC 6												✓									
UC 7												✓									
UC 8																	✓	✓			
UC 9																√					
UC 10													✓								
UC 11			✓	✓						✓	✓										

UC 12							✓	✓				
UC 13										✓	√	√

7.3.2 Prototypes (PID vs RID)

PID/RID	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
PID 1			✓																		
PID 2			✓		✓															√	
PID 3																			✓		
PID 4												✓	✓								
PID 5																	✓				
PID 6															✓						
PID 7														√							
PID 8						✓															
PID 9								√													
PID 10								√	√												
PID 11						√															
PID 12																					√
PID 13	✓	√																			
PID 14																			√		
PID 15			✓							√	√										
PID 16							√														

7.3.3 Test Cases (TID vs RID)

TID/RID	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
TID 1	✓																				
TID 2		√																			
TID 3						✓															
TID 4							✓														

TID 5					✓	✓												
TID 6									√									
TID 7									√									
TID 8														√	√			
TID 9													√					
TID 10										✓								
TID 11		✓	✓				✓	✓										
TID 12											✓	✓						
TID 13																\	√	✓

7.3.4 Coverage (UCID vs TID)

UCID/TID	TID	TID	TID	TID	TID	TID	TID	TID	TID	TID	TID	TID	TID
	1	2	3	4	5	6	7	8	9	10	11	12	13
UC 1	✓												
UC 2		✓											
UC 3			✓										
UC 4				✓									
UC 5					√								
UC 6						√							
UC 7							✓						
UC 8								✓					
UC 9									✓				
UC 10										✓			
UC 11											√		
UC 12												√	
UC 12													✓

8. RESULTS/OUTPUT/STATISTICS

8.1 %completion

We have 13 use cases and 21 functional requirements in our project. 96% of use cases completes the requirements of project.

8.2 %accuracy

We have tested all the Test cases. Almost 93.2% of work is accurate.

8.3 %correctness

Based on search results and Placing order and managing admin panel. Our Application results are 95% Accurate.

9. CONCLUSION

Mini Pet World is a combination of ecommerce and classified website. Which helps nearly every pet lover and pet keeper around Pakistan. We tried our best to make a user friendly interface where a user can easily get register and avail our services. It provides the facility to buy pet food and accessories online sitting at home. Now user don't need to visit market places for the desired item. Even user can sell and purchase their pets. User now can easily find the breeding partner for their pets.

10. FUTURE WORK

In Future we want to add more additional features in this website to enhance it for the betterment of the pet lovers. We want to add some machine learning feature too when a person will upload the photo of pet and or system will tell him about the pet breed, special features and behavior.

We also have a plan to launch online clinic for pets so that customers can get the checkup of their pets sitting at home and can also order medicine from our website. In short we will try to serve in every aspect of pet related services.

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- https://www.made-in-china.com/cs/hot-chinaproducts/Pet Food.html?gclid=CjwKCAjw9aiIBhA1EiwAJ GTSvJ-LUzDanRbjPwu1TFx6jKXKqr anikHcTXvZ-A1 xQE3F5M9zhMRoClnsQAvD BwE
- https://freshpet.com/

12. APPENDIX

12.1 Glossary of terms

Admin: A person who has complete authority on system.

User: A person who can register himself in system and use the services.

Shop: Where user can buy the desired item for his pet.

XAMPP: An open source and cross platform database.

12.2 Pre-requisites

One should have the knowledge about concept of Laravel: PHP framework, Web development, frontend and backend handling, Handling database, Visual studio code, xampp server etc. With all these skills website development will be quite easy for the developer to develop.