

MERCHANDISE BIRDS AND ANIMALS

Final Year Project

Session 2018-2019

A project submitted in partial fulfillment of the degree of

[MASTERS IN COMPUTER SCIENCE]



Department of Information Technology

Faculty of Computer Science & Information Technology

The Superior College , Lahore

Spring 2018

Type (Website)	[<input checked="" type="checkbox"/>] Development [<input type="checkbox"/>] Research [<input type="checkbox"/>] R&D			
Area of specialization				
Project Group Members				
Sr.#	Reg. #	Student Name	Email ID	*Signature
(i)	Bitm-f15-068	Bakhtiar Irfani	Bakhtiar.irfani9@gmail.com	
(ii)	MCSM-S18-012	Aswa Kalsoom	Aswakalsoom@gmail.com	
(iii)	MCSM-S18-013	Bilal Ahmad	Mcsm-s18-013@superior.edu.pk	

*The candidates confirm that the work submitted is their own and appropriate credit has been given where reference has been made to work of others

Plagiarism Free Certificate

This is to certify that, I _____ S/D of _____, group leader of FYP under registration no _____ at Information Technology Department, The Superior College, Lahore. I declare that my FYP proposal is checked by my supervisor and the similarity index is _____ that is less than 20%, an acceptable limit by HEC. Report is attached herewith as Appendix D.

Date: 28-02-2020

Name of Group Leader: Bakhtiar Irfani

Signature: _____

Name of Supervisor: Mr. Saqib Ali

Co-Supervisor:

Designation: Junior Professor

Designation:

Signature: _____

Signature: _____

HoD:

Signature: _____

Project Report

[Merchandise Birds and Animals]

Change Record

Author(s)	Version	Date	Notes	Supervisor's Signature
	1.0		<Original Draft>	
			<Changes Based on Feedback from Supervisor>	
			<Changes Based on Feedback From Faculty>	
			<Added Project Plan>	
			<Changes Based on Feedback from Supervisor>	

APPROVAL

PROJECT SUPERVISOR

Comments: _____

Name: _____

Date: _____ Signature: _____

PROJECT MANAGER

Comments: _____

Date: _____ Signature: _____

HEAD OF THE DEPARTMENT

Comments: _____

Date: _____ Signature: _____

Dedication

“We dedicated our work to the most respectful personality of the world and beloved PROPHET (PBUH) of Allah then to our parents, teachers, friends and all those persons who prayed and helped us in our project.”

Acknowledgements

I am really thankful to my supervisor who has guide us to make a wonderful website. Who teaches us how we manage our work and tell us pros and cons of our ideas. He is deal us very politely and give us suggestions. He has a best communication level. He gave me and my group more or more motivation and confidence. He did not refuse our idea but he enhances that idea.

Executive Summary

In modern age people have not much time to go outside and fulfil their heart desires. Birds and animals are the most amazing species on earth. People want to keep them at home. The main purpose of this app is to buy and sale birds and animals easily. People can get their pets without any struggle by this app. All the characteristics, features and pictures of birds and animals are available in it. It will be user-friendly.

Table of Contents

Dedication.....	v
Acknowledgements.....	vi
Executive Summary.....	vii
Table of Contents.....	viii
List of Figures.....	x
List of Tables.....	xi
Chapter 1.....	1
Introduction.....	1
1.1. Background.....	2
1.2. Motivations and Challenges.....	2
1.3. Goals and Objectives.....	2
1.4. Literature Review/Existing Solutions.....	2
1.5. Gap Analysis.....	3
1.6. Proposed Solution.....	3
1.7. Project Plan.....	4
1.7.1. Work Breakdown Structure.....	4
1.7.2. Roles & Responsibility Matrix.....	6
1.7.3. Gantt Chart.....	6
1.8. Report Outline.....	6
Chapter 2.....	7
Software Requirement Specifications.....	7
2.1.1. Purpose.....	8
2.1.2. Document Conventions.....	8
2.1.3. Intended Audience and Reading Suggestions.....	8
2.1.4. Product Scope.....	8
2.1.5. References.....	9
2.2. Overall Description.....	9
2.2.1. Product Perspective.....	9
2.2.2. Product Functions.....	9
2.2.3. User Classes and Characteristics.....	9
2.2.4. Operating Environment.....	9
2.2.5. Design and Implementation Constraints.....	10
2.2.6. User Documentation.....	10
2.2.7. Assumptions and Dependencies.....	10
2.3. External Interface Requirements.....	10
2.3.1. User Interfaces.....	10
2.3.2. Hardware Interfaces.....	10
2.3.3. Software Interfaces.....	11
2.3.4. Communications Interfaces.....	11
2.4. System Features.....	11
2.4.1. System Feature 1.....	11

2.4.1.1.	Description and Priority	11
2.4.1.2.	Stimulus/Response Sequences	11
2.4.1.3.	Functional Requirements	11
2.4.2.	System Feature 2.....	12
2.4.2.1.	Description and Priority	12
2.4.2.2.	Stimulus/Response Sequences	12
2.4.2.3.	Functional Requirements	12
2.4.3.	System Feature 3 (and so on)	12
2.5.	Other Nonfunctional Requirements	13
2.5.1.	Performance Requirements.....	14
2.5.2.	Safety Requirements	14
2.5.3.	Security Requirements	14
2.5.4.	Software Quality Attributes	14
2.5.5.	Business Rules	14
2.6.	Other Requirements	14
Chapter 3	.....	15
Use Case Analysis	.....	15
3.1.	Use Case Model	16
3.2.	Fully Dressed Use Cases	17
Chapter 4	.....	20
System Design	.....	20
4.1.	Architecture Diagram	22
4.3.	Entity Relationship Diagram with data dictionary	23
4.4.	Class Diagram.....	24
4.5.	Sequence / Collaboration Diagram	25
4.6.	Activity Diagram.....	26
4.7.	State Transition Diagram.....	27
4.8.	Component Diagram	28
4.9.	Deployment Diagram.....	29
4.10.	Data Flow diagram [only if structured approach is used - Level 0 and 1]	30
Chapter 5	.....	31
Implementation	.....	31
5.1.	Important Flow Control/Pseudo codes	32
5.2.	Components, Libraries, Web Services and stubs.....	33
5.3.	Deployment Environment	33
5.4.	Tools and Techniques.....	34
5.5.	Best Practices / Coding Standards	35
5.6.	Version Control	36
Appendices	.....	45
Appendix A: Information / Promotional Material	.....	46
Reference and Bibliography	.....	52
Index	.....	54

List of Figures

3.1	Use Case Model	16
4.0	System Design	21
4.1	Architecture Diagram	22
4.2	ERD	23
4.3	Class Diagram	24
4.4	Sequence Diagram	25
4.5	Activity Diagram	26
4.6	State transition Diagram	27
4.7	Component Diagram	28
4.8	Deployment Diagram	29
4.9	DFD	30
5.1	Flow Control Diagram	32

List of Tables

1.7.2	Roles and responsibility matrix	6
1.7.3	Gantt Chart	6
6.1	Use Case Testing	38
6.1	Use Case Testing	39
6.3	Boundary value analysis	40

Chapter 1

Introduction

Chapter 1: Introduction

I believe every animal deserves someone who loves him or her. They always forgive you and are always there for you, why shouldn't we be there for them. Pets provide their owners both physical and emotional benefits. This website is made for pet lovers. The user will register themselves on this website. Registered users can search and also upload pictures of birds and animals. People can sale and buy animals and birds according to their requirements.

1.1. Background

The customer needs this website. One more important thing is that I am a great lover of ALLAH's creature i.e. birds and animals. Sometimes I have to buy some birds and animals and there is no special or particular website for that. So the main purpose of that website to make easy approach for buying and selling birds and animals.

1.2. Motivations and Challenges

Like our Prophet (P.B.U.H) loves and also teaches us the lesson to love and care of birds and animals. So by this website people can easily buy or sell birds and animals by making them precious. One important challenge is that we need to increase our website popularity in general public.

1.3. Goals and Objectives

Our goal is to make a website by which user can easily buy or sell birds and animals according to their requirements.

Our objective is to take this website at international level. So that people can buy or sell any bird or animal.

1.4. Literature Review/Existing Solutions

Before the vast technology, people used to buy pets from different pet shops. Now a day's technology has been so advanced that people mostly stay in their homes. For their ease, we are

making a website where they can buy animals, birds etc. They could also sell them through this website by uploading their pictures and characteristics. We will make the searching way better for users to access easily.

- Bolee.com
- Paaltu.com
- Birds planet.com
- World Bird Store
- MyBirds.Pk
- Petsone.pk
- PetsPakistan.com
- Pet Shop
- Pet Market

1.5. Gap Analysis

By searching we can find that there is no particular website for buying or selling birds and animals having more features. So that we make a site in which people can easily buy or sell their favorite or loveable birds and animals. This site can give easy approach and the difficulty of buying and selling decreases.

1.6. Proposed Solution

- Easy access of buying and purchasing animals and birds with the help of this website.
- Users can find number of birds and animals according to their choices without any difficulty.
- It saves our time and money. It will also provide affordable prices according to the user. People can deal and contact with each other easily.
- This project provides online services through our website.
- This website also provides all types of features of birds and animals, details of doctors and trainers also.
- This website consists of login, signup, pictures, customer information.
- You can advertise your pet.

1.7. Project Plan

Reduces the complexity of purchasing and selling birds and animals. We will make a documentation for keeping our project in track. In this we will identify the scope, the goals which our website will make it happen or reach. We are providing online platform which can provide service to buying or selling birds and animals to customers on one click order. They visit website and click on order and get visiting time and place of seller.

1.7.1. Work Breakdown Structure

A **work-breakdown structure** in project management is a deliverable-oriented breakdown of a project into smaller components. A work breakdown structure is a key project deliverable that organizes the team's work into manageable sections. The Project Management Body of Knowledge (PMBOK 5) defines the work-breakdown structure "A hierarchical decomposition of the total scope of work to be carried out by the project team to accomplish the project objectives and create the required deliverables."

➤ **Requirement:**

- Gather functional and non-functional requirements.
- Analysis of each single requirement.
- SRS documentation.

➤ **Website front end design :**

- User interface.
- Customer support and help.
- Report complaints.
- Usability.

➤ **User panel design:**

- User gets registered.
- User login.
- Make profile

- Feedback.
- Get information about doctors and trainers

➤ **Admin panel design:**

- Admin Login.
- View Profile.
- View customer's deals.
- Manage database.
- Manage new update.
- Delete customer account.

➤ **Implementation:**

- Divide task to each member.
- Perform meetings for improvement.

➤ **Testing:**

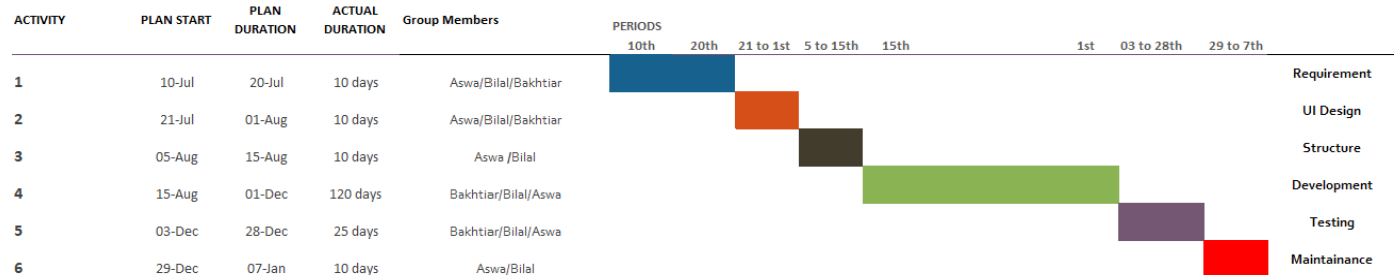
- Performance testing.
- Usability testing.
- Security testing.

1.7.2. Roles & Responsibility Matrix

The purpose of roles & responsibility matrix is to identify who will do what.

WBS #	WBS Deliverable	Activity #	Activity to Complete the Deliverable	Duration (# of Days)	Responsible Team Member(s) & Role(s)
1	Requirement	1	report	10 days	Bilal/Aswa/Bakhtiar
2	UI Design	2	report	10 days	Bilal/Aswa/Bakhtiar
3	Structure	3	report	10 days	Bilal/Aswa/Bakhtiar
4	Development	4	report	120 days	Bilal/Aswa/Bakhtiar
5	Testing	5		25 days	Bakhtiar
6	Maintainance	6		10 days	Bakhtiar

1.7.3. Gantt Chart



1.8. Report Outline

In this chapter we discuss our project problems and also describe their solutions or discuss the background of proposed system. We discuss different kinds of challenges about our project and also discuss how to work our project step by step or how that project perfectly used in system.

Chapter 2

Software Requirement Specifications

Chapter 2: Software Requirement Specifications

2.1.1. Purpose

This website describe and define the function and specification of our website is the primary goal of this software requirement specification. This SRS illustrates in clear terms, the system's primary uses and required functionality as specified by our customer. Our purpose is to create a website ANIBIR.com. The scope of this project is to provide all kind of birds and animals at customer's door.

2.1.2. Document Conventions

A document is primarily prepared for a project, software or any kind of website. SRS is a document that explain the nature of a project, website and software. It is a manual document of a project that provide you immediately search from website. This document is known as SRS report or software document.

2.1.3. Intended Audience and Reading Suggestions

Intended audience of this website is a project manager which use SRS to evaluate the site in all phases SDLC either project process going according to system requirement.

- This website is also used by the designer to make perfect design flow of the product according to SRS.
- SRS is used by the developers to check the implementation fulfill the functionalities and features of the website that defined in it.

2.1.4. Product Scope

Today the use of computer and internet has become necessary for everyone.

- This website provides online all types of birds and animals with their brief characteristics.
- Information of doctors are provided here for daily checkup of pets.
- Information of trainees are also available on this website. It will be very helpful for customers.
- Customer visit this website and easily check the availability of birds and animals with its charges. Customer can add an advertisement of pets.

- Customer can pay the charges online easily.

2.1.5. References

2.2. Overall Description

2.2.1. Product Perspective

The website can easily accessed by using every operating system. It is an open source website at an international level.

2.2.2. Product Functions

- Allow the management to Add new customers to the existing list.
- Allow the management to drop the data of customer.
- Allow the management to update the description of everything that related to birds and animals.
- Allow the management to upload different schemes.
- Allow the customer to achieve those schemes.
- Allow the customer to explain their problems through online forms.
- Allow the user to view all official notices of this website.

2.2.3. User Classes and Characteristics

Administrator, Management, Service Management & Customer are the types of users that interacted with this system. Each of these four types of users has different use of the website so each of them has their own requirements. Management can upload services, notices and price of the services. Administrator is able to add/drop & view/update the list of customer and management. Customer can contact to doctors easily and explain their problems.

2.2.4. Operating Environment

Website is used for front end in our project.

PHP is use for back end and JAVA is also used in it.

Local host is used for server in our website.

MYSQL is used for connectivity for Database.

2.2.5. Design and Implementation Constraints

- The invalid data should be ignored and error messages should be given.
- This website is also run on IOS, it can easily accessed by all PC.
- This website is not run without Internet.

2.2.6. User Documentation

The front end page consisted of a login and sign up page that provide to access website. Afterwards the user can easily visit services and images of birds and animals. The customer login are updated in the website. The management can allow limited information to the customer. Customer can contact to doctors and trainers for their pets.

2.2.7. Assumptions and Dependencies

- Management and customers are connected with each other at same platform through internet.
- Information accessed from the database.
- This website is for all type of PCs and easily accessible.

2.3. External Interface Requirements

2.3.1. User Interfaces

There are four types of users that are Administrator, Management, Service management and customer that interacted with this website. Each of these four types of users has different use of website so each of them has their own requirements. Management can upload services, scheme, notices and price of pets. Administrator is able to add/drop & view/update the list of customer and management. Customer can contact to management easily and explain their problems.

2.3.2. Hardware Interfaces

- All series of Core I processor Pc
- 1 GB RAM of system

- 500GB Hard disk
- Laptops, PC, tablet and mobile devices

2.3.3. Software Interfaces

- Server 2008 used
- Visual studio
- Windows 7 to Window 10
- Web domain .com & Linux

2.3.4. Communications Interfaces

- Database SQL
- Emails
- Website domain DNS

2.4. System Features

2.4.1. System Feature 1

Required information should be shown at same platform that can easily be vied by both admin and user.

2.4.1.1. Description and Priority

The user can get information from the features and show it to the Admin access in short time. The website cannot work without this priority feature.

2.4.1.2. Stimulus/Response Sequences

Every time the data is saved and retrieved from the database easily.

2.4.1.3. Functional Requirements

Functional requirements describe a function of website or its components. A function is explain the behavior, a set of inputs processing and output.

For Customer

- REQ-SF1-1: Customer can upload pictures.
- REQ-SF1-2: Customer can contact to doctors and trainers.

- REQ-SF1-3: Customer can explain problems through online form.

2.4.2. System Feature 2

Functional requirements describe a function of website. A function is explain the behavior, a set of inputs processing and output.

2.4.2.1. Description and Priority

It is a best priority project. The user can get information from the features of birds and animals then show it to the Admin access in short time. The website cannot work without this priority feature.

2.4.2.2. Stimulus/Response Sequences

Every time the data is saved and retrieved from the database easily.

2.4.2.3. Functional Requirements

Functional requirements describe a function of website. A function is explain the behavior, a set of inputs processing and output.

For Management

- REQ-SF2-1: Allow the management to Add new customers to the existing list.
- REQ-SF2-2: Allow the management to drop the data of customer.
- REQ-SF2-3: Allow the management to update the description of everything that related to birds and animals.
- REQ-SF2-4: Allow the management to upload different varieties of birds and animals.
- REQ-SF2-5: Allow the customer to achieve these schemes.
- REQ-SF2-6: Allow the customer to explain their problems through online forms.
- REQ-SF2-7: Allow the user to view all official notices of website.

2.4.3. System Feature 3 (and so on)

Functional requirements describe a function of website. A function is explain the behavior, a set of inputs processing and output.

For Administrator:

- Admin can add/drop the services
- Admin can registered management staff
- Admin can view/upload the services
- Admin can tracking the activities of services management

2.4.4. System Feature 4

Functional requirements describe a function of a software system or its components. A function is explain the behavior, a set of inputs processing and output.

For Service Management:

- Service management can view the order of customer
- Service management can repair the vehicle of customer at any location
- Service management can allow to tracking the customer.

2.5. Other Nonfunctional Requirements

Nonfunctional requirement are that specifics criteria that can judge the system rather the specific behavior.

USABILITY:-

The website should be friendly and easy to understand for the user. This project design is fully comfortable so that is why user are interacted to that website.

CHANGEABILITY:-

The website design in such a way that we are changes every data in the future. Any type of update are easily done in this project.

EFFICIENCY:-

This project is fully Graphic User Interface so that is why it interact the customers and the project has an image is so attractive or efficient.

2.5.1. Performance Requirements

The website should be able for the customer that they explain their problems through internet. This website also help the customer to pay their bills easily through online transaction. This project also provide doctor's and trainer's information for customer.

2.5.2. Safety Requirements

Safety requirement are used to save the information and no one can use this information for wrong purpose. So that is why we make sure anyone who access this website should be a valid purpose and must giving their username and password to access.

2.5.3. Security Requirements

Administrator is only a person who have access on website and he is able to provide the information to customers. Every users has their own login and password.

2.5.4. Software Quality Attributes

In our project every person are easily contact with management. We provided prefect services, original pictures of birds and animals, different information about doctors and trainers to the customer at a single platform. We can track our customer through google map easily. This website will run on any kind of web browser.

2.5.5. Business Rules

Internet must be necessary to run this website. Client (customer) and Server (staff) must be connected with the help of internet.

2.6. Other Requirements

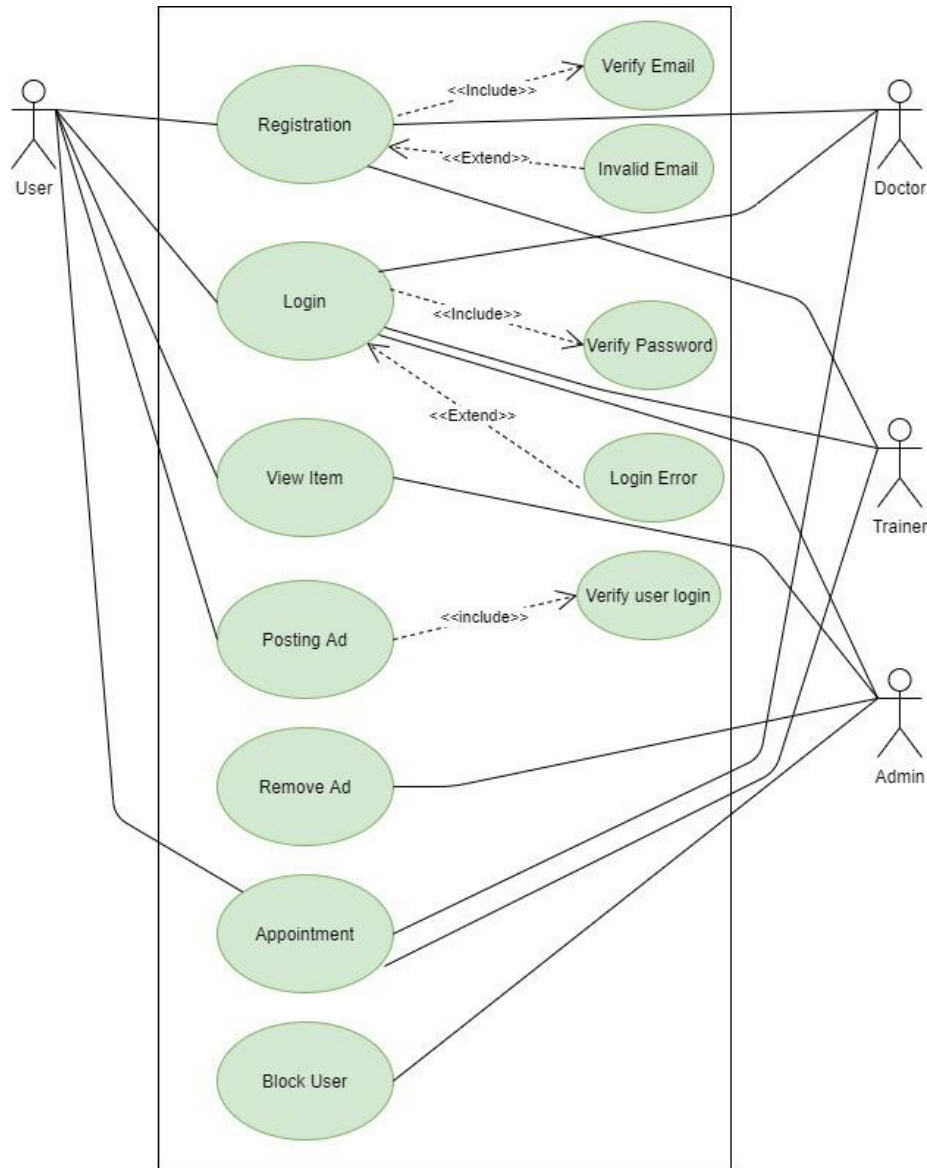
We update our website according to the need of time and introduce new requirements that are necessary for our project.

Chapter 3

Use Case Analysis

Chapter 3: System Analysis

3.1. Use Case Model



3.2. Fully Dressed Use Cases

Use case: **Registration**

Primary Actors: The user will register their new account.

Precondition:

- The user should not have their current account.

Triggers: Need to create an account.

Scenario:

- Go to the main page, click on Sign up and fill the registration form.
- Click Create account button.
- Account is created only if there are no errors in the form.

Use case: **Log In**

Primary Actions: Any user such as a Doctor, a User, a Trainer and an Admin can log in to their accounts on the website

Precondition:

- The user should already have an account on the website.
- With having an account, the user should also have their information in the account

Scenario:

- Go to the main page of the website.

Use case: **View Ad**

Primary Actors: Viewing the Ad such as Animals

Goal in context: To view the animals to the user.

Precondition:

- Required item should already be on the website.
- Go to the main page
- Click View Items
- Select an Item

Use case: **Edit Ad**

Primary Actors: Editing the items

Goal in context: To edit the Items by the user

Precondition:

- Required item should already be on the website.
- Go to the main page
- Click View Items
- Select an Item
- Edit the Item.

Use case: **Remove Ad**

Primary Actors: Removing the Ad selected

Goal in context: To remove the item for the user.

Precondition:

- Required item should already be selected.
- Go to the main page
- Click View Items
- Select an Item
- Remove the item

Use case: **Appointment**

Primary Actors: Settling an appointment with the doctor and trainer, who treats the animals and trainer who trains the animals

Goal in context: To set an appointment with the Doctor and Trainer.

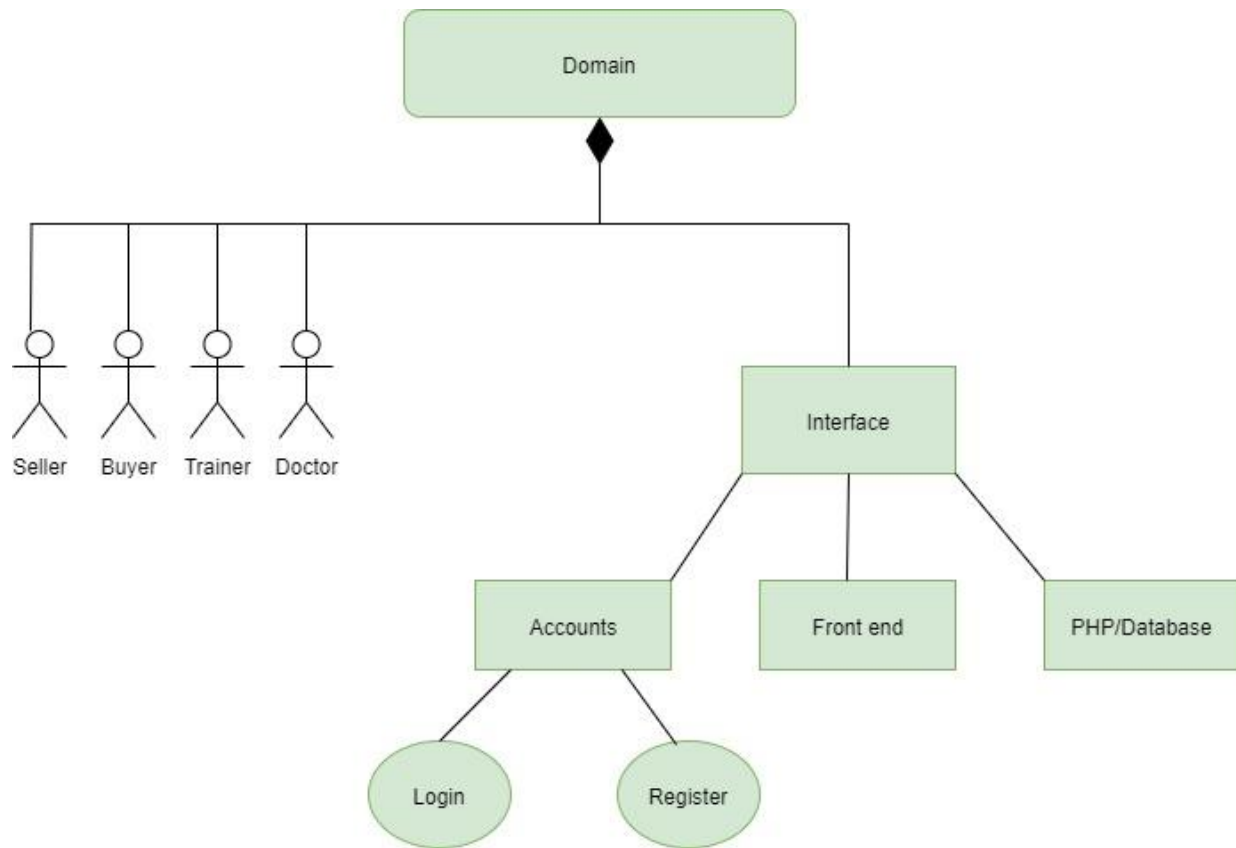
Precondition:

- Go to the main page
- Click Appointment with doctor or trainer
- Settle an appointment with the doctor or trainer

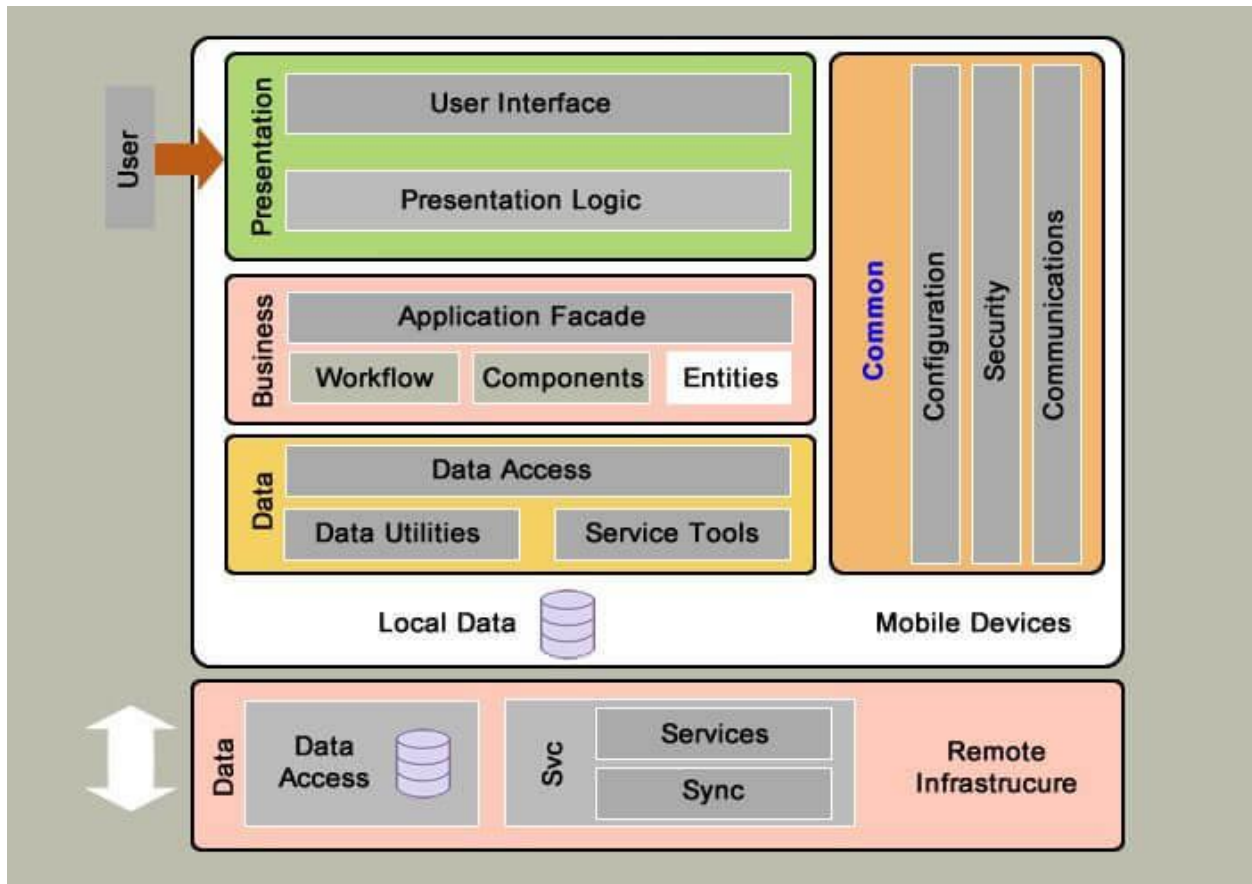
Chapter 4

System Design

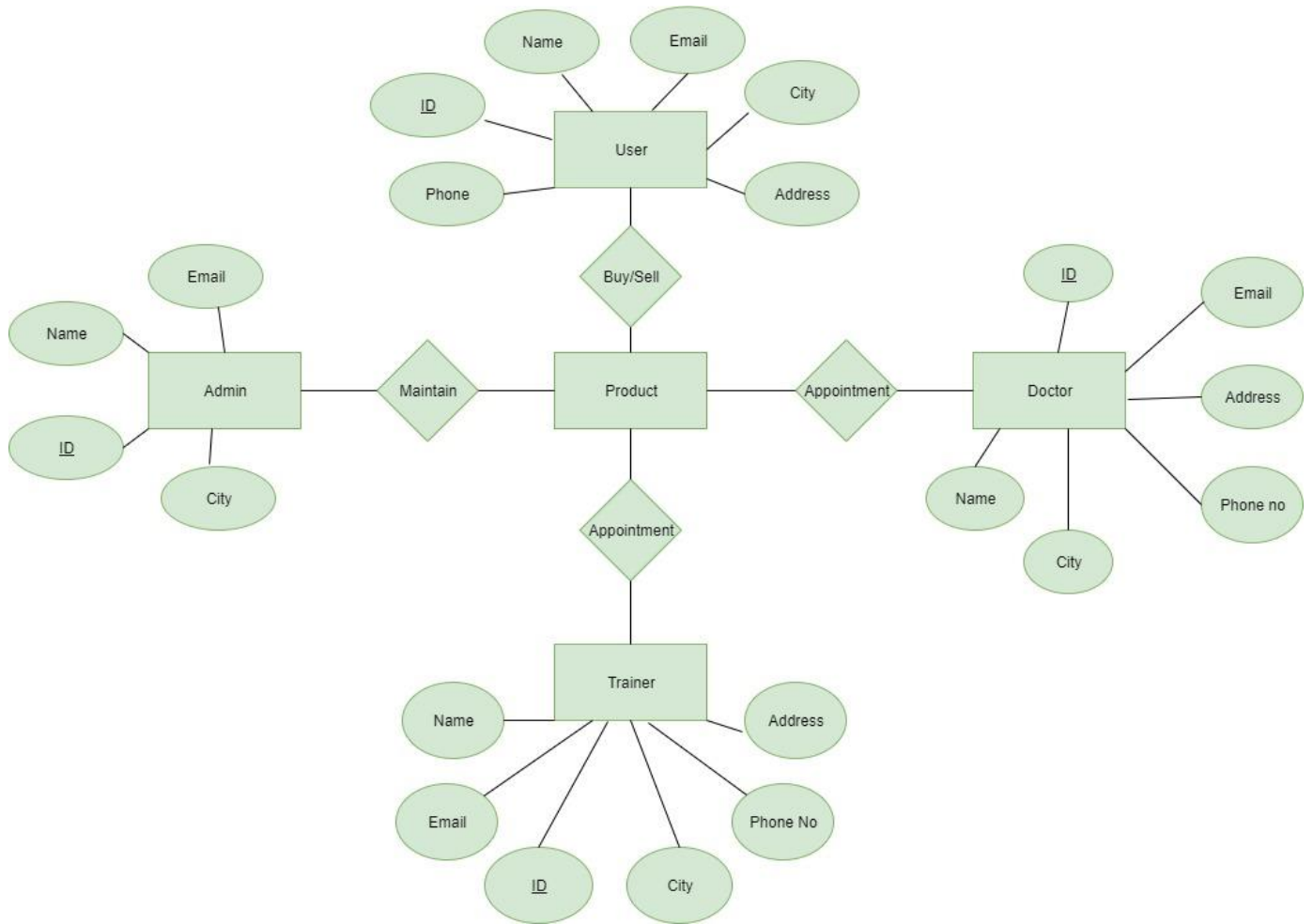
Chapter 4: System Design



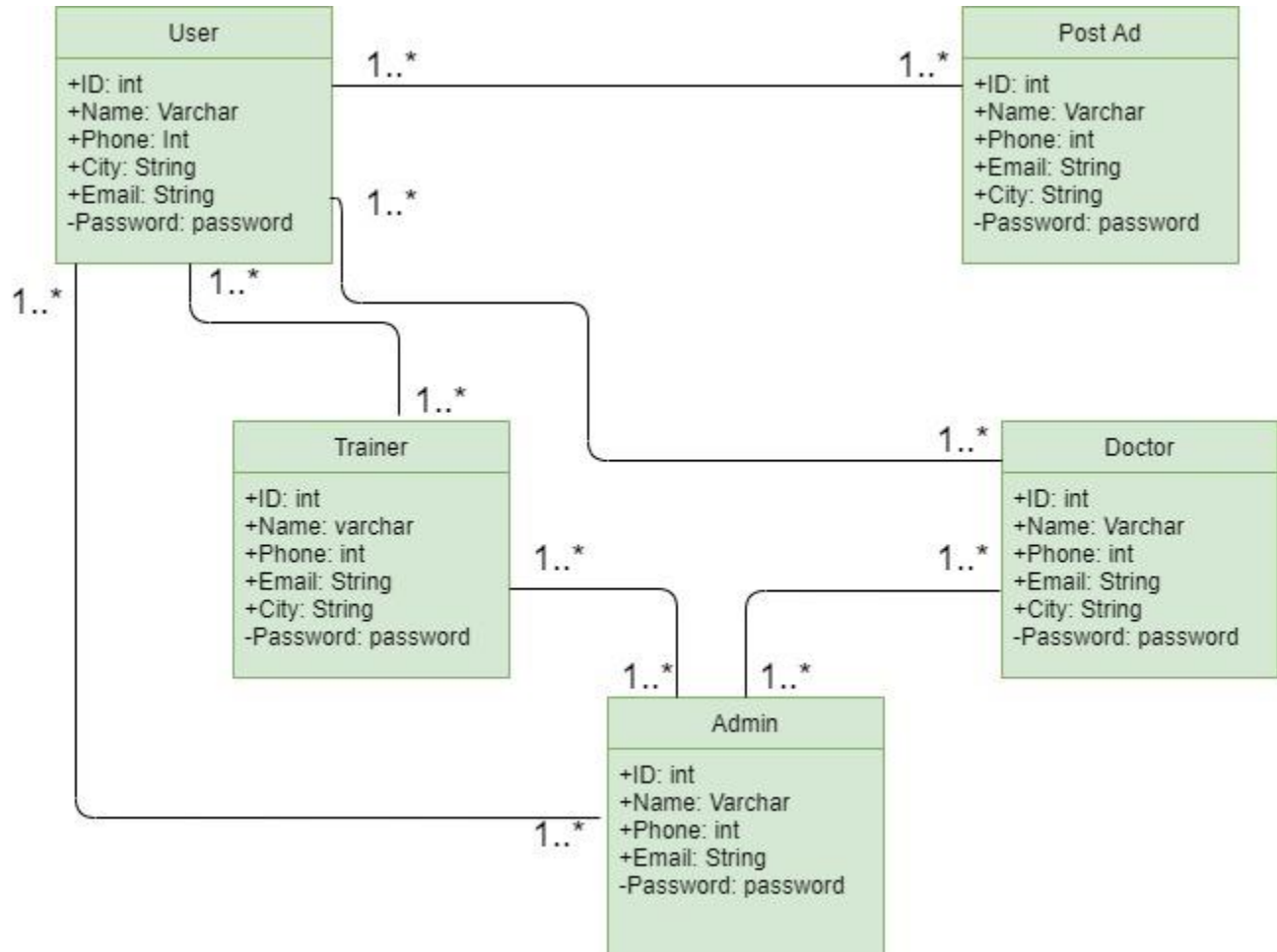
4.1. Architecture Diagram



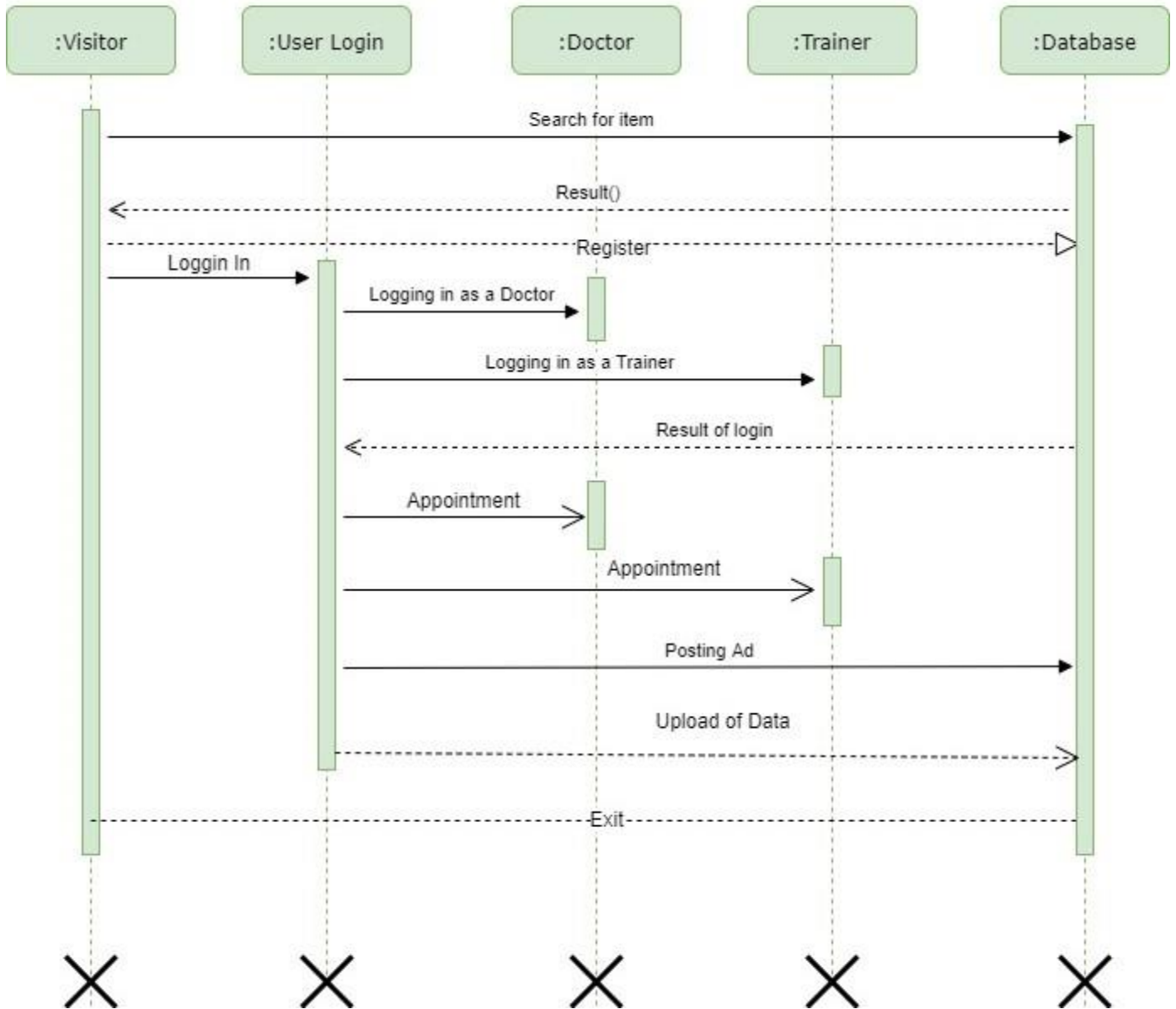
4.2. Entity Relationship Diagram with data dictionary



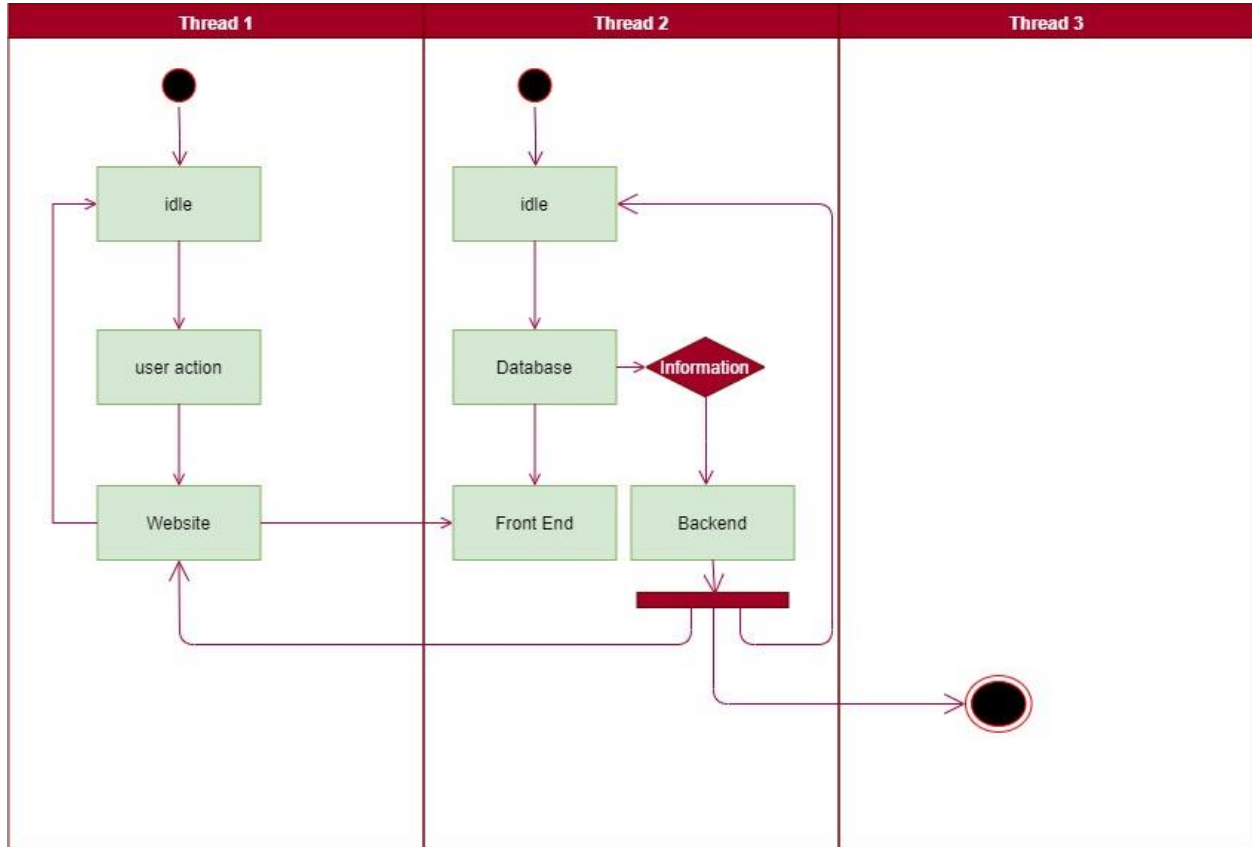
4.3. Class Diagram



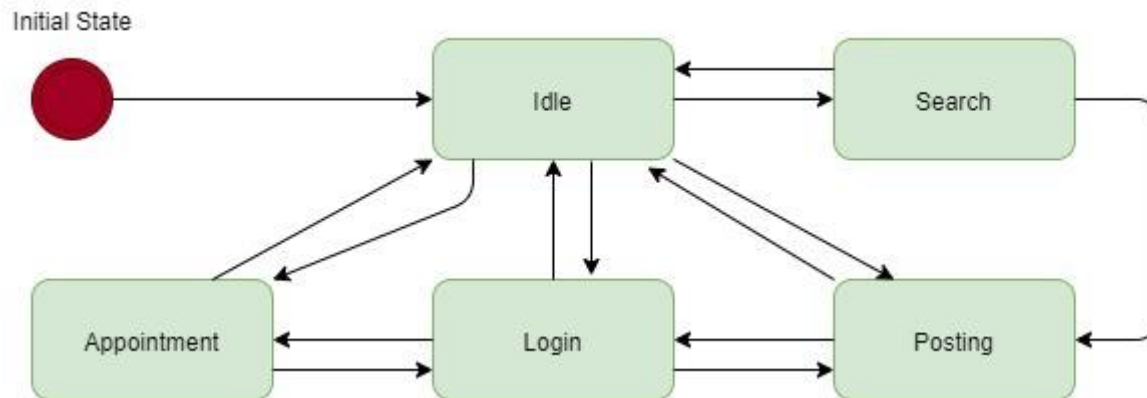
4.4. Sequence / Collaboration Diagram



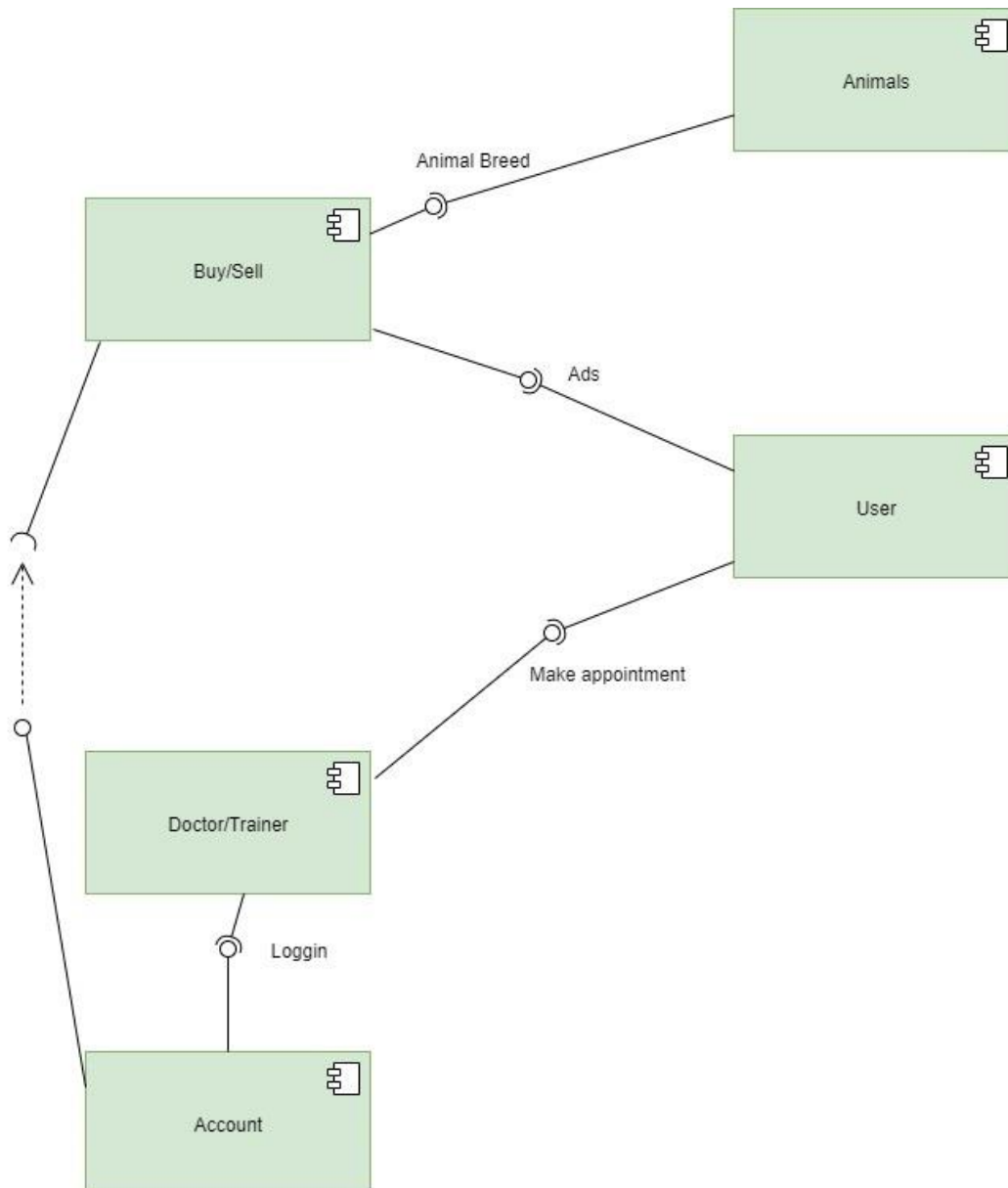
4.5. Activity Diagram



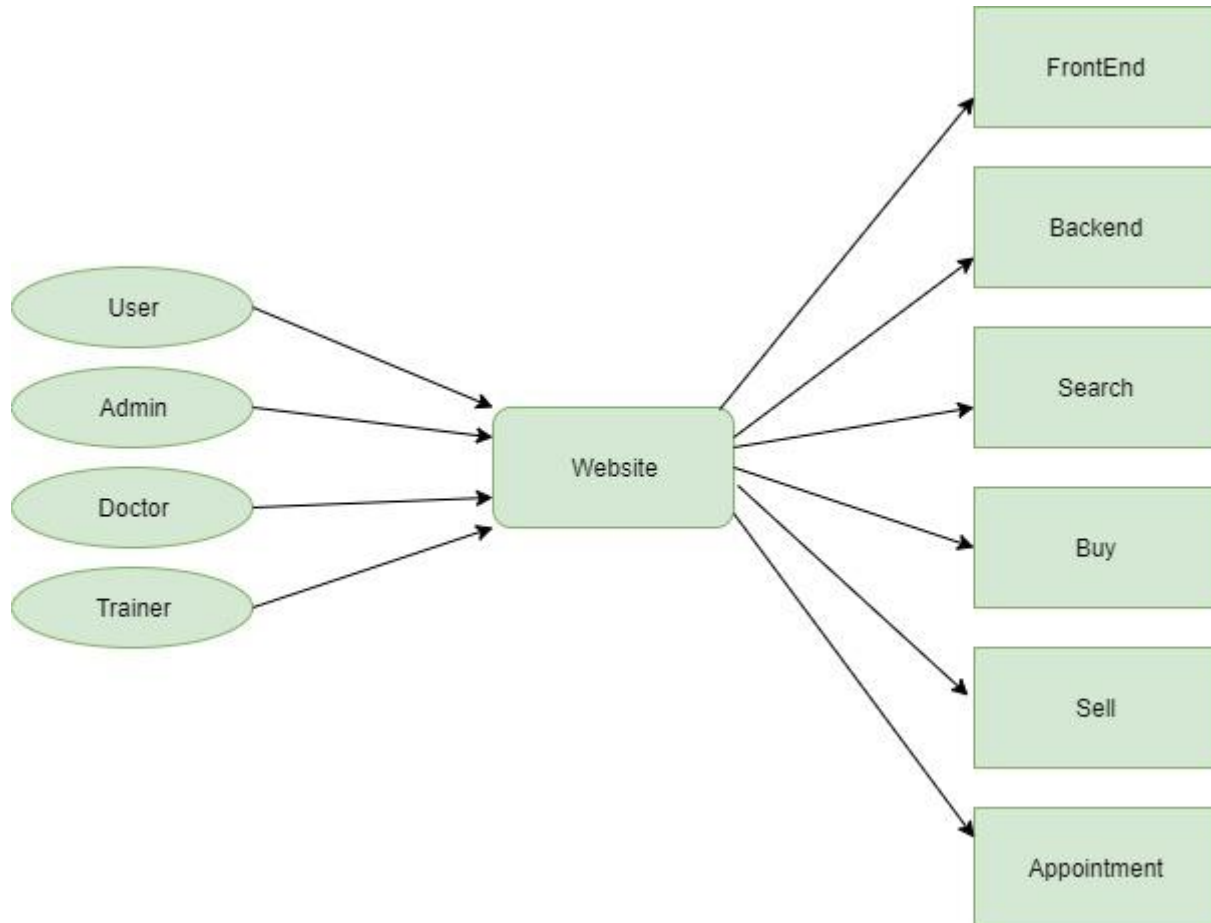
4.7 State Transition Diagram



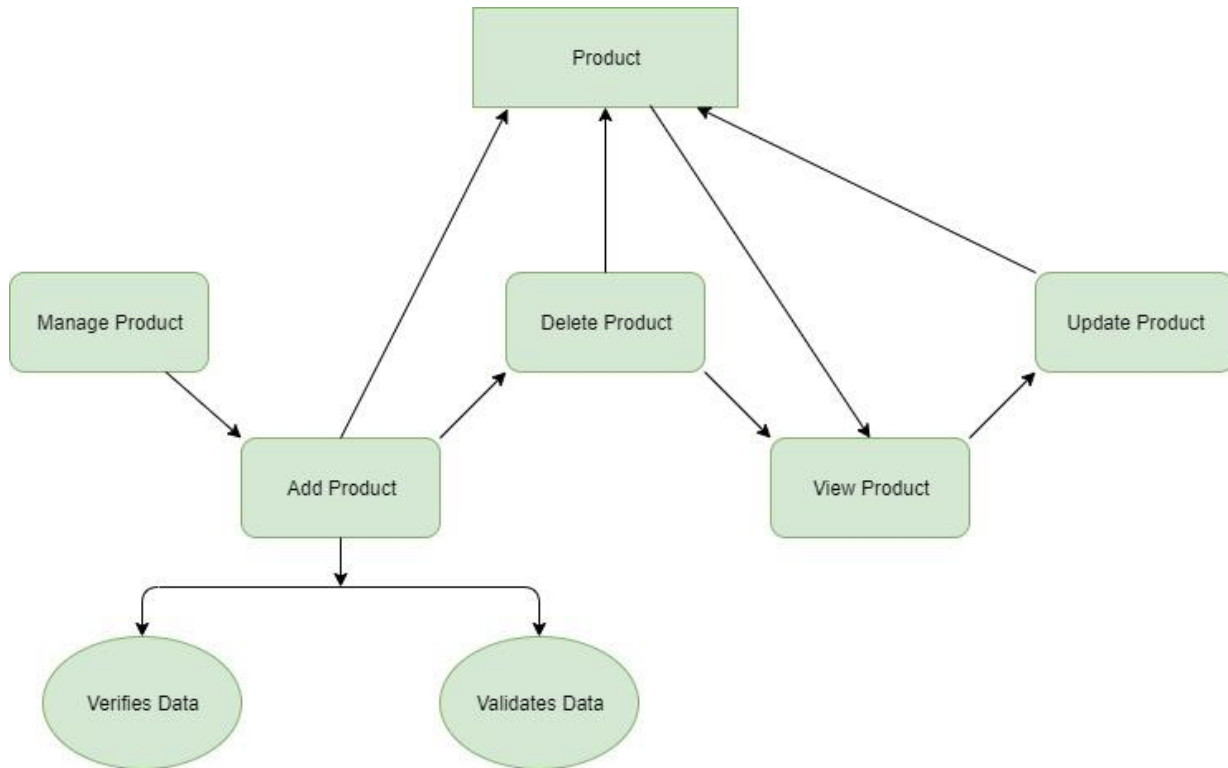
4.6. Component Diagram



4.7. Deployment Diagram



4.8. Data Flow diagram



Chapter 5

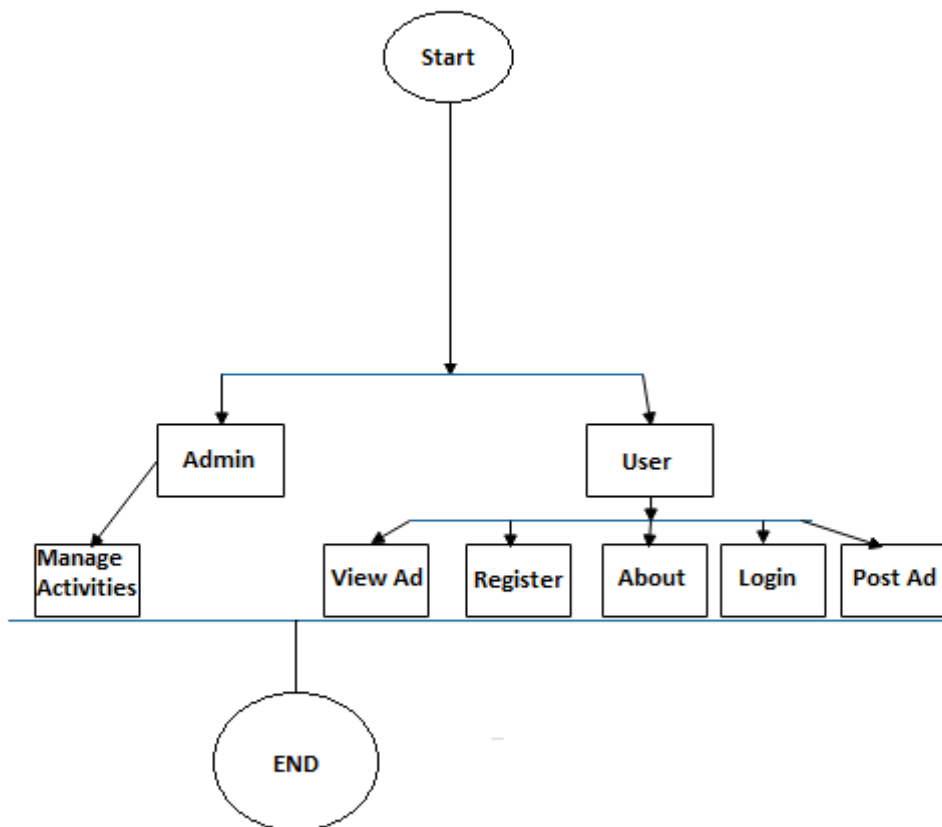
Implementation

Chapter 5: Implementation

We made the whole website including the Register, Login, Posting Ads, Viewing Ads, About us.

The user will also be able to contact the Doctor from the website in case of a treatment and also will be able to hire a Trainer in case of training their pets by means of the given option on the website.

5.1. Important Flow Control/Pseudo codes



Flow Control Diagram

5.2. Components, Libraries, Web Services and stubs

There are three basic components in web page:

- **HTML:** this markup language is used to structure the web page.
- **CSS:** This is used to add styling to the page. So basically CSS is used to build presentation layer of the page. You can set background color, font size etc.
- **Javascript:** JS is used to make the web page interactive so that your web page can respond to the user actions.

Libraries:

- Bootstrap
- Javascript
- CSS
- Flaticon

Web services:

- Active all of the time, 24/7
- Every user can create an account
- Every user can search an item
- Every user can search and contact the doctor
- Every user can contact the Trainer
- Every person will have an individual privacy

5.3. Deployment Environment

- Here we will use the DNS server for uploading our website through a server.
- By shifting the website on to a server, we will make sure the server is compatible enough to run our website.
- We will setup and will test the website completely on the server in order not to face issues.

- The website will have many version and the backup will be saving on the server and a copy on our local PC in case of a server failure, we would run our website on our own PC.

5.4. Tools and Techniques

5.4.1 Notepad++

Notepad++ is a text editor and source code editor for use with Microsoft Windows. In this, we will write the code of HTML, PHP.

5.4.2 Xampp

XAMPP is a free and open-source cross-platform web server solution stack package that will be used to run the website along with the backend, developed by Apache Friends.

5.4.3 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially design for the development of website and embed in HTML (hypertext markup language).

5.4.4 Server

Server required for the storage of data for now we use localhost as a server to store the whole website, database and other information.

5.4.5 HTML

Html is “hypertext markup language” this is tag base scripting language. Use for website development, you can any other framework like PHP framework, .Net framework these embedded in HTML.

5.4.6 Bootstrap

Bootstrap is a library use for development of websites and many more. It can be used for the responsiveness of your web page, your website automatically fit every screen size.

5.4.7 DataBase

Database is for storing the data of a website for later use. For the website, database will be created on Phpmyadmin and later connecting to the website.

5.4.8 UML Tools

- Draw.io
- MS Excel

5.5. Best Practices / Coding Standards

Indentation and readability of Code is particular subject in the world of programming. This is the best thing which I learnt as developer. Standards of coding is important to follow these. If you can't use these it's seems to be difficult to understand the existing code which develop from another developer. There are some standards which I use in my project.

- Documentation
- Type Setting
- Object oriented
- Code Grouping
- DRY Principle.
- Segmentation
- Control Line Length.

5.6. Version Control

Working on of the website so as the new version releases, the website will be merge to the new one and the older one will be stored as a backup. The user will be able to enjoy the new feature of security implemented in the new version. Also, a new version can fix the bug and error and the review of UI from user to make it easier for the Users.

Chapter 6

Testing and Evaluation

Chapter 6: Testing and Evaluation

6.1. Use Case Testing

Use Case 1:

Test case id	TC01
Test case Description	To check the registration procedure for users
Related Requirement	REQ-SF1-1
Test Procedure	Try to create account with correct information of the user and incorrect information (invalid data)
Test Data	First name, last name, phone number, email, password
Expected Result	Successful registration on valid data, and unsuccessful on invalid data and if email is already registered
Actual Result	Successful on valid data Unsuccessful on invalid data
Status	Pass

Use Case 2:

Test case id	TC02
Test case Description	To check the process of login for the user
Related Requirement	To check the process of login for the user
Test Procedure	Open the website and login by providing email and password
Test Data	Email, password
Expected Result	Successful login if the provided credentials are valid and an account exists against them.
Actual Result	Successful on valid data Unsuccessful on invalid data
Status	Pass

Use Case 3:

Test case id	TC03
Test case Description	To check the process of viewing the items
Related Requirement	To check if the items are being viewed or not
Test Procedure	Open website and click an ad for viewing
Expected Result	Successful
Actual Result	Successful
Status	Pass

Use Case 4:

Test case id	TC04
Test case Description	To check ad posting
Related Requirement	To check if the ad posting is being carried out
Test Procedure	Select the Post an Ad button and check if the ad posting is working
Expected Result	Successful
Actual Result	Successful
Status	Pass

Use Case 5:

Test case id	TC05
Test case Description	To check the process of setting an appointment
Related Requirement	If the appointment is being made or not
Test Procedure	Once the appointment is set, it should be shown
Expected Result	Successful
Actual Result	Successful
Status	Pass

Use Case 6:

Test case id	TC06
Test case Description	To check if the trainer is being set
Related Requirement	To check if the trainer is being hired or not
Test Procedure	Select the option of selecting a trainer on the front page and to see if the trainer is being hired or not
Test Data	None
Expected Result	Successful
Actual Result	Successful
Status	Pass

6.2. Boundary value analysis

Test case id	TC10
Test case Description	To check if the account which is not registered logs in or not
Related Requirement	Login of not registered account
Test Procedure	Login to an account which is not registered
Test Data	Email, Password
Expected Result	Error (Invalid Email) on Login
Actual Result	Error
Status	Pass

6.3. Data flow testing

Data flow testing is a family of test strategies based on selecting paths through the program's control flow in order to explore sequences of events related to the status of variables or data objects. Dataflow Testing focuses on the points at which variables receive values and the points at which these values are used.

Data Flow testing helps us to pinpoint any of the following issues:

- A variable that is declared but never used within the program.
- A variable that is used but never declared.
- A variable that is defined multiple times before it is used.
- Deallocating a variable before it is used.

In our website we have made data flow testing and achieved suitable results.

6.4. Unit testing

Every part of the project tested as unit in order to check if there are no errors to be found. The unit testing went all correct as no errors were found.

6.5. Integration testing

The performance of the website is quick in response and the upload of the data is quick as well. With Database this has been made achievable. As soon as the user interacts by means of posting an Ad or creating an account, the data is instantly uploaded to database and next click shall provide results based on the changes.

6.6. Performance testing

The basic work flow to test the Performance of the website consists of:

Server Conditions: It is a light website so there are no signs of a load on the server, but due to the increase of very large database, the load can happen in future.

Network Conditions: It consists little network load, network signal, network type.

Device Conditions: It contains platform type, device type.

When data traffic flow occurs in the Website, there are some obstructions in the system that degrades overall performance for a little bit. This occurs when coding errors or hardware issues cause a decrease of throughout under certain loads. So based on the above work flow, tester has to monitor the below mentioned things to measure the accurate performance:

- Load, CPU usage, Packets sent/received under server part.
- Throughput, Hits per second, Transaction per second.
- Response time under device condition.
- Packet loss, average delay under n/w conditions.
- Network Usage.
- Memory usage, Memory leakage.

6.7. Stress Testing

Stress testing carries out by putting pressure to the system. The pressure can be carried out by uploading of large number of database such as posting of ads, creating accounts and carrying high data traffic through the system.

- By stress testing we have to determine the points where the system puts too much pressure.
- We also have to determine if the hardware is specifications are meeting.
- We also have to determine the point where system goes to failure

Chapter 7

Summary, Achievements & Lessons Learnt

Chapter 7: Summary, Achievements & Lessons Learnt

7.1. Project Summary

This initiative was taken at Superior University and is about a Website of Selling and Buying of Animals. In this website, A user can be free to make an account, Post Ads, Search Animals which he may want to buy, or contact a Doctor or a Trainer for his required need. This Website gives a user a freedom to look for pets. The user will find comfort in using of the website and will get attracted towards the UI of this website. Now the user can search, sell and buy animals while staying at home whether to go out for a pet shop.

7.2. Achievements and Improvements

We understood the creating of a Website and implementation on the work much more deeply. How to process and understand a person need is what we acknowledged as well. The learning of code and how to implement it and correcting it after many errors was our achievement. We have improved our skills by working on this project and improved the way we think about a certain task a person performs.

We faced many difficulties and found errors in our project but working on it, correcting it and letting it run perfectly was also our improvement.

7.3. Lessons Learnt

Human think that they have time to do any task but the reality is that we don't have much time and so its our job to manage our time and to do our task or any work on the right time. Through this project we came to know the worth of working out things on their right time. Apart from all the time managing thing, we came to know how to be focused on a task, how to think about it and how to do it in a perfectly manner.

Appendices

Appendix A: Information / Promotional Material

A.1. Broacher

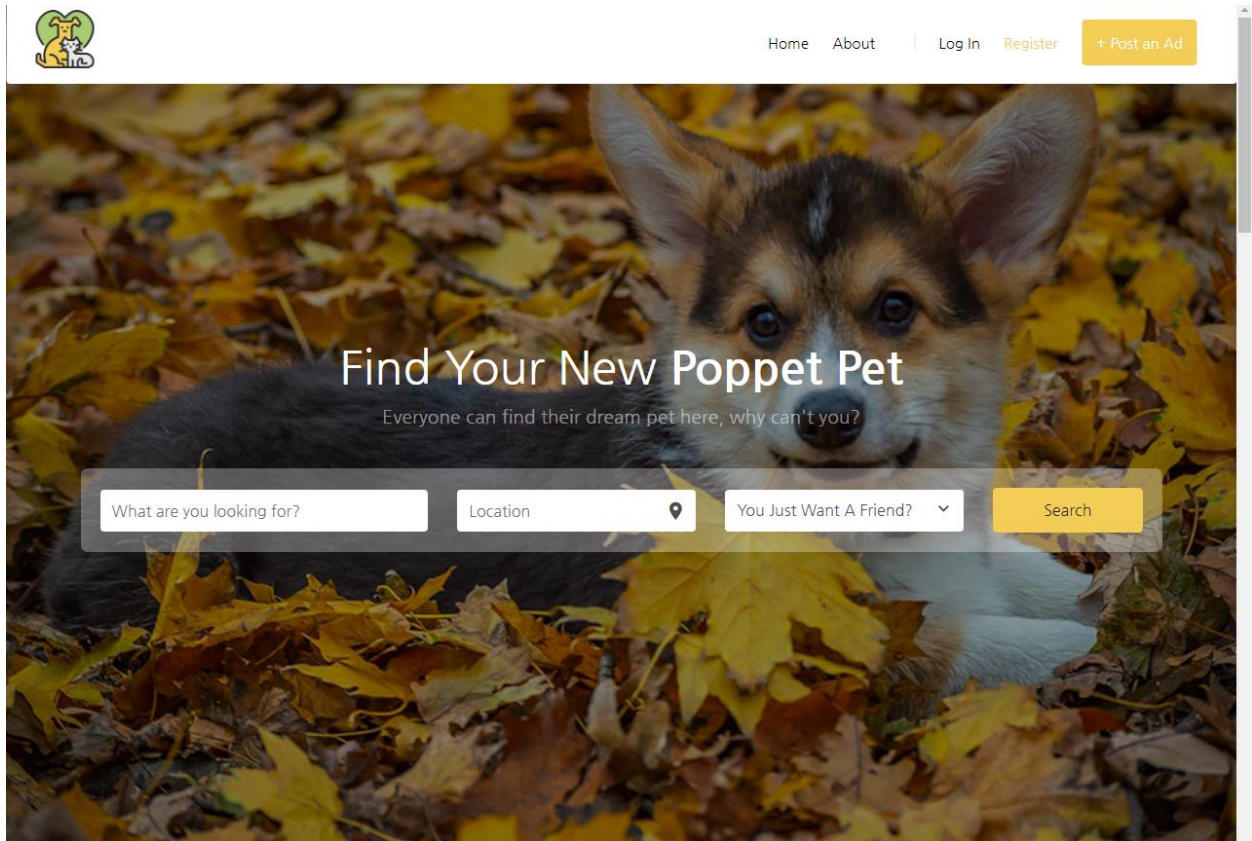
A.2. Flyer







A.3. Standee

A.4. Banner


Appendix: User Manual

A.1. Main page of the website where you can do certain tasks as shown




 Dogs	 Cats	 Birds	 Sea life	 Farm & Animals	 Other
---	---	--	---	---	--

Our personally recommended
Doctors
For Your Pet

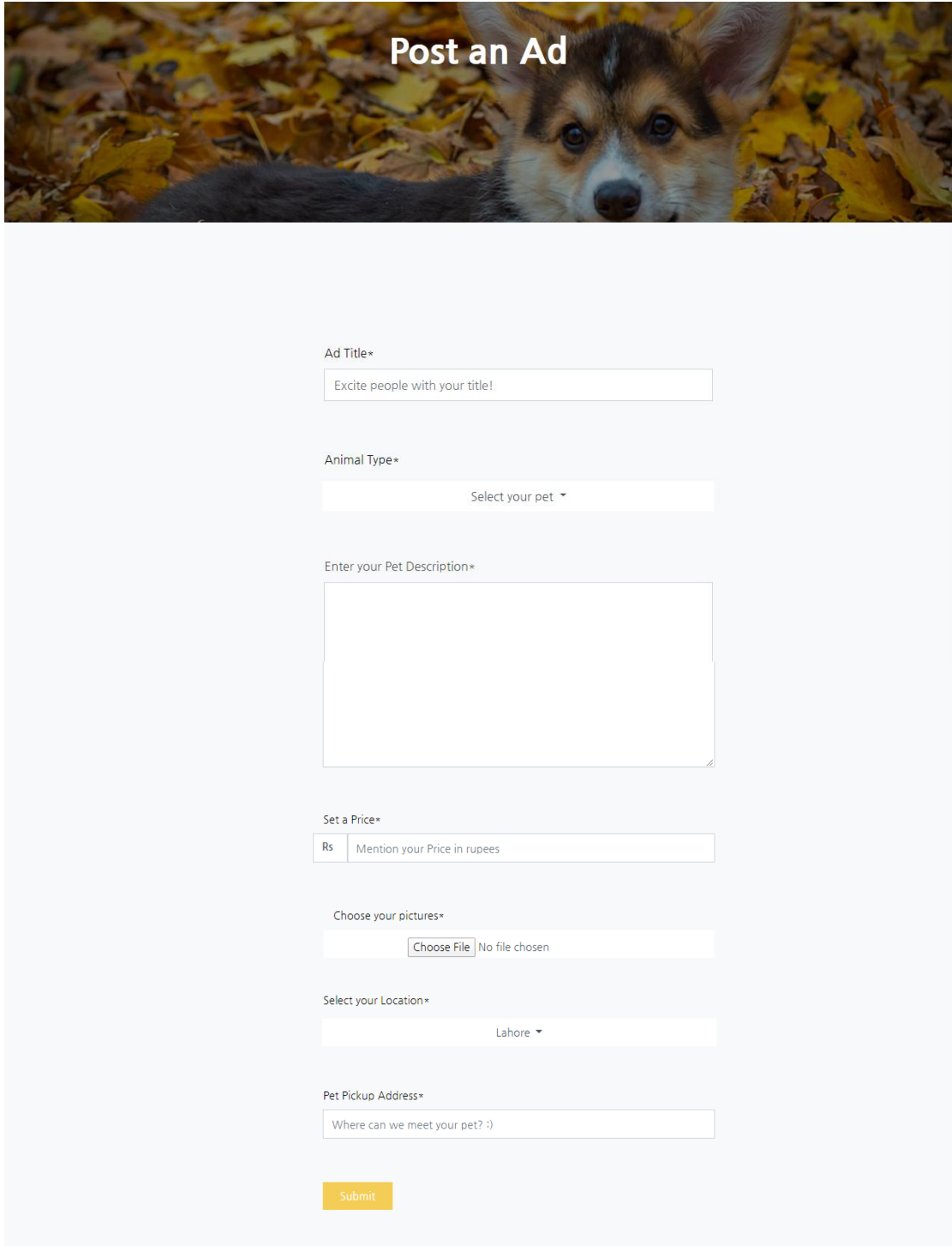


[Book an Appointment](#)



Get your Pet Trained By Our Personal Favorite
Trainers

A.1.1. Posting an ad form



Post an Ad

Ad Title*
Excite people with your title!

Animal Type*
Select your pet ▼

Enter your Pet Description*

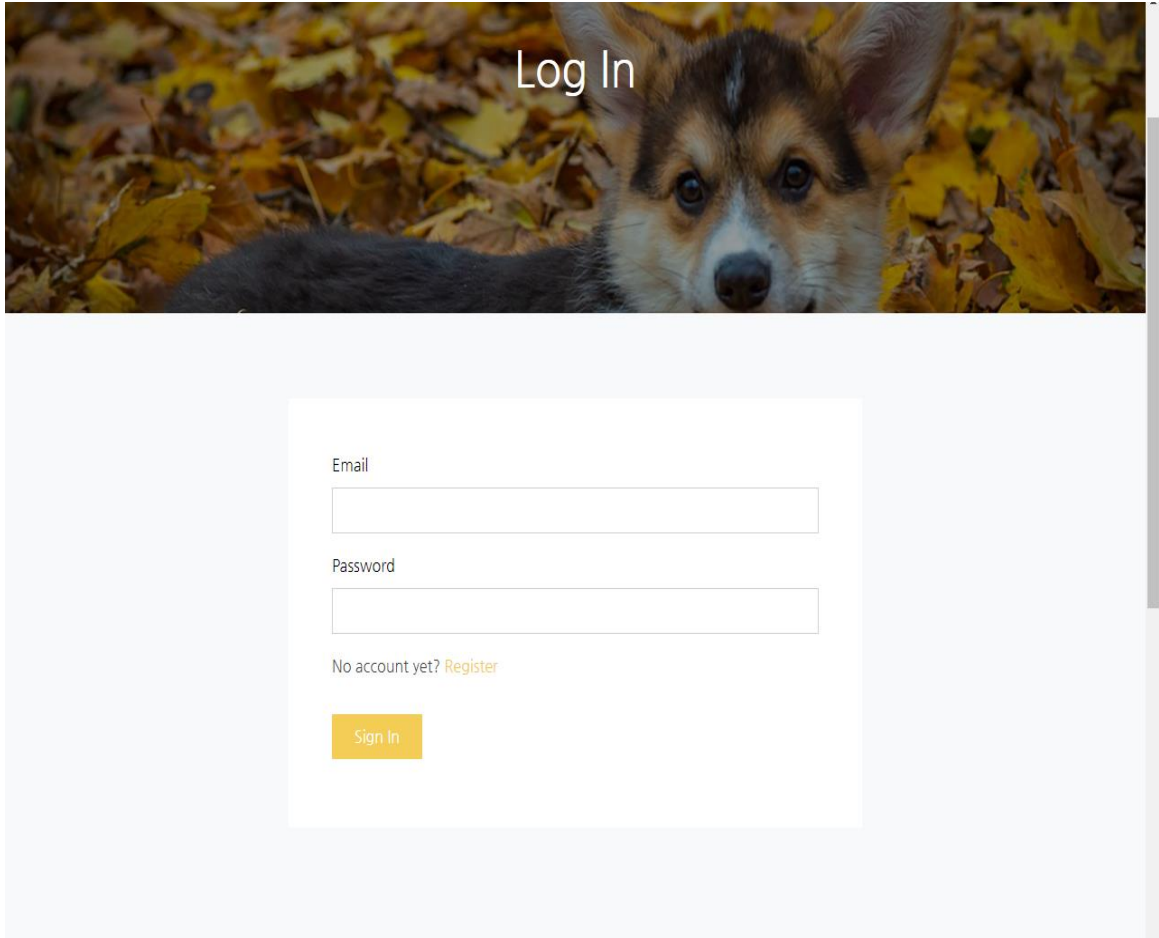
Set a Price*
Rs Mention your Price in rupees

Choose your pictures*
 No file chosen

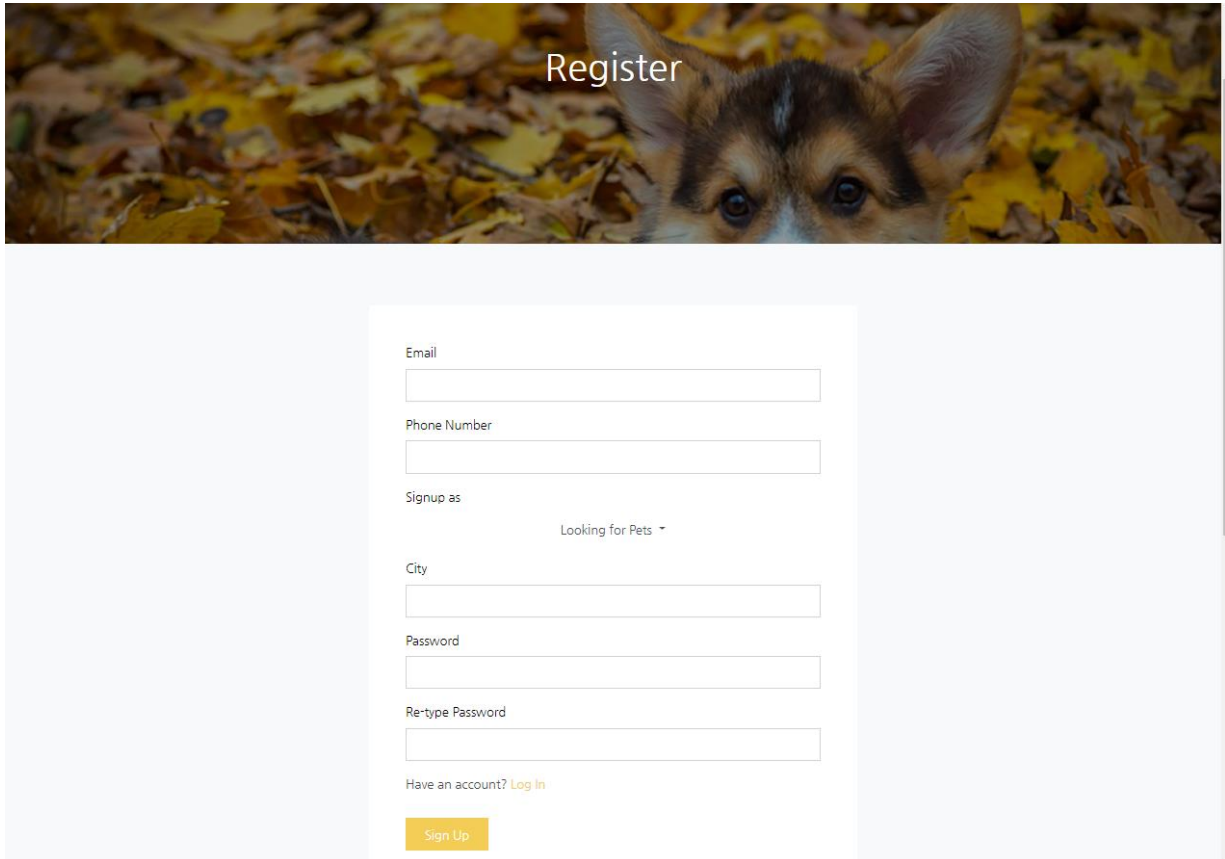
Select your Location*
Lahore ▼

Pet Pickup Address*
Where can we meet your pet? :)

A.1.1.1. Logging in to the website



A.1.1.2. Registering to the website



The screenshot shows a registration form on a website. The background is a close-up of a corgi puppy's face peering through yellow autumn leaves. The word "Register" is centered at the top in white text. Below it, the form fields are arranged vertically: "Email" with a text input box, "Phone Number" with a text input box, "Signup as" with a dropdown menu currently showing "Looking for Pets", "City" with a text input box, "Password" with a text input box, and "Re-type Password" with a text input box. At the bottom left of the form area, there is a link "Have an account? Log In" and a yellow "Sign Up" button.

Enter your respective data and in the section “Sign up as” Select ‘Looking for pets’ if you’re a normal and random user where selection of “I am a doctor”, “I am a trainer” are for the respective users.

Reference and Bibliography

Reference and Bibliography

1. <https://www.classifiedads.com/>
2. <https://dealmarkaz.pk/>
3. <https://www.olx.com.pk/>
4. <https://www.asan.com.pk/>
5. <https://www.paksalespoint.com/>
6. <https://www.lelo.pk/>
7. <https://www.pakwheels.com/>
8. <https://www.gumtree.com/>

Index

Index

[A]

[B]

[C]

