

Final Report

CST 291-2

GROUP NO: 11

PETS' ADVERTISING WEBSITE

Computer Science & Technology

Department of Computer Science & Informatics

Uva Wellassa University

August 2021

Declaration

We do hereby declare that the work reported in this report was exclusively carried out by us under the supervision of Mr. M.N.T. Nandasena and Ms. J.S. Ambalampitiya. It describes the results of our own independent work except where due reference has been made in the text.

Group Details

Group No: 11

Group Members

Registration Number	Member Name	E-mail Address	Signature
UWU/CST/18/012	Dilshan K.Y.T	cst18012@std.uwu.ac.lk	
UWU/CST/18/035	Bandara C.J.M.H	cst18035@std.uwu.ac.lk	
UWU/CST/18/049	Sewwandi M.G.S.I	cst18049@std.uwu.ac.lk	
UWU/CST/18/054	Kumara R.M.R.S.C	cst18054@std.uwu.ac.lk	

Date:

Date:

[Project Supervisor]

[Project Co-Supervisor]

Mr. M.N.T. Nandasena

Ms. J.S. Ambalampitiya

Department of Computer Science & Informatics

Department of Computer Science & Informatics

Faculty of Applied Science

Faculty of Applied Science

Acknowledgement

The success and final outcome of this project required a lot of guidance and assistance from many people. Whatever we have done is only due to such guidance and assistance. We would like to express our sincere gratitude to our supervisor Mr. M.N.T. Nandasena and Co-Supervisor Ms. J.S. Ambalampitiya for providing their valuable guidance, comments and suggestions which made us complete this project on time, we are extremely grateful for providing such a nice support.

Also we would like to Thank Ms.Iranthi Ranasinghe for coordinating project-I and giving us opportunity to do this project and providing us all support. Finally, we would like to express our gratitude to our friends and respondents for their support.

Table of Contents

Chapter 1: Introduction	
1.1 Project Title.....	7
1.2 Project Description.....	7
1.3 Background & motivation.....	8
1.4 Project aims/ Objectives	9
Chapter 2: Project Description	
2.1 Functional Requirements	10
2.2 Non-Functional Requirements.....	11
2.3 User Levels.....	12
2.4 User Roles.....	12
Chapter 3: Methodology.....	13
Chapter 4: System Analysis.....	14
4.1 Flow Chart.....	14
4.1 Use Case Diagram.....	15
4.2 Class Diagram.....	16
4.3 Activity Diagram.....	17
Chapter 5: Design.....	18
5.1: Data Model	
5.1.1 Entity Relationship Diagram (ERD).....	18
5.1.2 Relational Schema.....	19
5.2 Database Design.....	20

Chapter 6: Resources	
6.1 Software Resources.....	21
6.2 Hardware Resources.....	22
6.3 Technologies.....	23
Chapter 7: Implementation	
7.1 User Interface Design & Implementation.....	24
7.2 Database Design & Implementation.....	40
Chapter 8. Testing & Evaluation.....	43
8.1 Testing Methodologies.....	43
8.1.1 Unit Testing.....	43
8.1.2 Integration Testing.....	44
8.1.3 System Testing.....	44
8.1.4 Acceptance Test.....	45
Chapter 9: Future Plan.....	46
Chapter 10: Project Plan.....	47
References.....	48
Individual Contribution.....	49
Appendices	50

List of Figures

Figure 01: Flow Chart.....	14
Figure 02: Use Case Diagram.....	15
Figure 03: Class Diagram.....	16
Figure 04: Activity Diagram.....	17
Figure 05: ER Diagram.....	18
Figure 06: Relational Schema.....	19
Figure 07: Database Structure.....	20
Figure 08: Screenshot of the Home Page.....	24
Figure 09: Screenshot of the Ad details Page.....	25
Figure 10: Screenshot of the Review Page.....	26
Figure 11: Screenshot of the Login Page.....	27
Figure 12: Screenshot of the Customer Registration Page.....	28
Figure 13: Screenshot of the Pet Archive Page.....	29
Figure 14: Screenshot of the User Profile Page- Dashboard	30
Figure 15: Screenshot of the User Profile Page – My Advertisements.....	30
Figure 16 Screenshot of the User Profile Page – Edit My Profile	31
Figure 17: Screenshot of the User Profile Page – Change Password.....	31
Figure 18: Screenshot of the Advertising Page	32
Figure 19: Screenshot of the Customer & Item details.....	33
Figure 20: Screenshot of the Payment Page.....	34
Figure 21: Screenshot of the Admin Profile Page – Dashboard	35
Figure 22: Screenshot of the Admin Profile Page – Advertisement	36
Figure 23: Screenshot of the Admin Profile Page – Sellers	36
Figure 24: Screenshot of the Admin Profile Page – Admins	37
Figure 25: Screenshot of the Admin Profile Page – Add New Admin.....	37
Figure 26: Screenshot of the About Us Page.....	38
Figure 27: Screenshot of the Privacy Policy Page.....	39
Figure 28: Screenshot of the Advertisement Database.....	40
Figure 29: Screenshot of the Admin Database.....	41
Figure 30: Screenshot of the Seller Database.....	41
Figure 31: Screenshot of the Rating Database.....	42

CHAPTER 1: Introduction

1.1 Project Title

Pets' advertising website

1.2 Project Description

We are making an online advertising website for pets called “www.paw.lk”. Main purpose of this website is to give online solution for customers who want to advertise their pets on online website. This system provides the services for advertiser to introduce their pets and services into online market. In addition, we help customers to fulfill their requirements of their pets. For example, they can find Foods, Pet cages, Pet beds, Traveling thing, Medicines, Vitamins etc. This project is aiming to help pet lovers to treat their pets. We try publishing the validity of the pets. Due to this reason customer can easily find good breeds while avoiding the cheaters. Another important thing is people can find their location of nearest pet shop to buy their needs. This helps to minimize wasting of their time. Some people may don't have proper knowledge about the vitamin and other food items. This site will be educable for those peoples. In this site sellers can create their own ads and show their ads online. Seller who will order the advertisement to be published in our site can also provide pet-related products information to this website in order to expand their marketing reach .To create an ad seller should be registered first and log into system. After that they can choose any category and they have to pay for that relevant price for the category which they have selected. Then they can upload photos & other details. Sellers can inspect their advertisement after the admin approval given. Admin has to review and approve each and every advertisement before posting in the site. This advertisement will be visible within pre-defined time period.

There are major benefits of using this online advertising website,

- Seller can use this site to reach the people all over the country.
- Advertisements can reach a very large number of buyers.
- Multimedia will create more attractive advertisements.
- Reduction of costs (The production costs of the ads, the broadcasting costs of the ads).
- Measurable.
- Better partnership and cooperation.

1.3 Project Background & Motivation

Online Advertisements is a Web Based Application in which Users can post ads of products which they want to sell after being registered on the site. It provides a platform which enables you to find information and communication with one another about the ads. In today's market, it is extremely difficult to start or run a business and its sustenance with competition from the well-established and settled owners. Most often, even if the quality of the product is really good, due to a lack of advertisements, the product does not reach a larger group of customers. We know traditional advertising like billboards, press, television, radio and posting such an advertisement is very expensive. Usually, big companies can afford to pay for the production of this advertising as well as for its broadcasting. And also,

The pet industry is currently a growing \$50 billion plus industry. Within this industry, the most rapidly growing segment is pet supplies and pet-related services. People have a high and growing level of interest in pets today.

So we decided that developing a pets' advertising website will be more efficient and successful. The motive of our project is to develop a web site which can provide platform for people in every city to post ads, increasing the online sales or to improve customer convenience with advertisements. In current system user must find a pet shop or pet supplier, go to shop and get services. It is difficult to find best pet suppliers or their location. Also there are expenses for travelling from house to shop. It requires lots of times. The proposed system will make it easier for human to reduce physical work and to save time. In addition, use of traditional and non-user friendly interfaces that is hard to use. Our website will eliminate the disadvantages caused by current system. Here our system ensures that everyone can use this system more easily, we focused everyone, and interface is more user friendly for all. Here we focused on this problems and make a user friendly interface for all.

1.4 Objectives

The overall aim of the system is to provide an effective and efficient service to the customers.

Apart from that,

- To provide information about different categories and other products to the visitors
- To provide secure transactions to the seller
- To improve customer service
- To increase sales by reviews
- To improve cost effectiveness
- To reduce the waste of resources
- To reduce time wastage
- To increase the speed of the service
- To increase better partnerships and cooperation
- To build trust among customers
- To increase the awareness of the people

CHAPTER 2: Project Description

2.1 Functional Requirements.

User registration & Login System

- The Admin must be login to the system using email address, user name and password.
- The Admin should login to the system for getting every detail.
- The Admin couldn't login to the system if the information is incomplete or invalid.
- Seller verification by the Admin
- The seller should login or register using the user authentication form.
- The seller couldn't login or register if the information is incomplete or invalid.

User Profile Management

- Admin can edit admin profile, add admins and delete admin.
- Review the advertisements added by seller before display it on site.
- Admin can remove the advertisement after given time period has expired.
- Seller can manage his own profile.
- Seller can change their advertisement within given period of time.

View categories and items

- The users shall be able to view the different categories, select categories, browse through the available items in each category.
- The seller shall be able to see their designed advertisement

Search and Filter

- Admin can search details about sellers.
- Customer has the ability of searching the relevant item.
- Customer can filter out the nearest advertised pets' shops.
- Customer can filter out what he wants. (Dogs, cats, food item, accessories)

Online payments

- Seller should pay when he is placing an advertisement.
- Seller pays their fee using visa master card.
- Payment for an advertisement may be differing according to category.
- Admin can send the money back if there something error happened.

Check History

- Admin can log into the system and check every detail.
- When seller registered to the system admin can check whether the seller is new seller or a registered seller.

2.2 Non-Functional Requirements

- System should be able to handle multiple users.
- System should be easy to maintain
- System should be able to work efficiency
- System should be expandable
- Login by user name, password should be incorporated wherever necessary
- System should be a user friendly environment and easy to navigate
- System should be portable
- System should be protected against malware attacks or unauthorized access

2.3 User Levels

There are three (3) levels in this advertising system.

- Admin (High level user)
- Seller (Registered member)
- Customer (Visitor user)

2.4 User Roles

System admin (owner)

- Log in to the system.
- Administrator user management.
- Product attributes management.
- Banner management
- Price chart management (fee per advertisement).
- View seller details.
- Add / modify and delete Information.
- Edit admin profile, add admins and delete admin.
- Check history.

Seller (Registered member)

- Login to website
- Edit own profile.
- Manage own advertisement.
- View Advertisement, status, history.
- Contact admin using Chat box
- Proceed to billing details, edit billing details
- Review advertisement.
- Delete account.
- Log out.

Customer (visitor user)

- View all current products
- Search and filter out advertisement.
- Contact admin using Chat box.

CHAPTER 3: Methodology

In that purposed system, the requirements can be changed in the future and not totally fixed. Because of that, we have to consider a methodology which has facilities that can accommodate those changes. Also, we have to provide a more user-friendly system within a small period of time.

Then we have to choose an iterative method to develop the system because we are going to design such as user registration & Login System, Payment gateway, Pointing System, Check History. Then also we have to use increment method because there some function that we are aiming improves later on. Like filter function for Example.

Because of that we have to use most appropriate method which is **Agile Approach**. By using this process, clients can be allowed to interact with the system development stage. We involve customers in the Development Process to get rapid feedback on changing requirements. And also we minimize documentation by using informal communications after rather than formal meetings with written documents. Then we will be able to develop a more user-friendly and efficient system within a short period of time.

During the process the requirements can be broken down into multiple standalone modules. The highest priority requirements can be included in early increments. Customer can start using the increments & gives out feedbacks towards the completion of the project.

In the first phase of our system, we design the user interfaces and database, User Registration & Login, search and filter.

In the second phase we develop the admin, User profile management, functionalities, chat option and all the other functional and non-functional requirements, rest of the database.

After finishing these two phases we test the phases separately and combined together. Then we implement and test the whole system and validate it.

CHAPTER 4: System Analysis

Analysis is the process of gathering and comparing information about the web and its operation and use in order to improve the web's overall quality and to identify problem areas.

4.1 Flow Chart

This is simply a graphical representation of steps and it shows steps in sequential order and is widely used in presenting the flow of algorithms, workflow or processes.

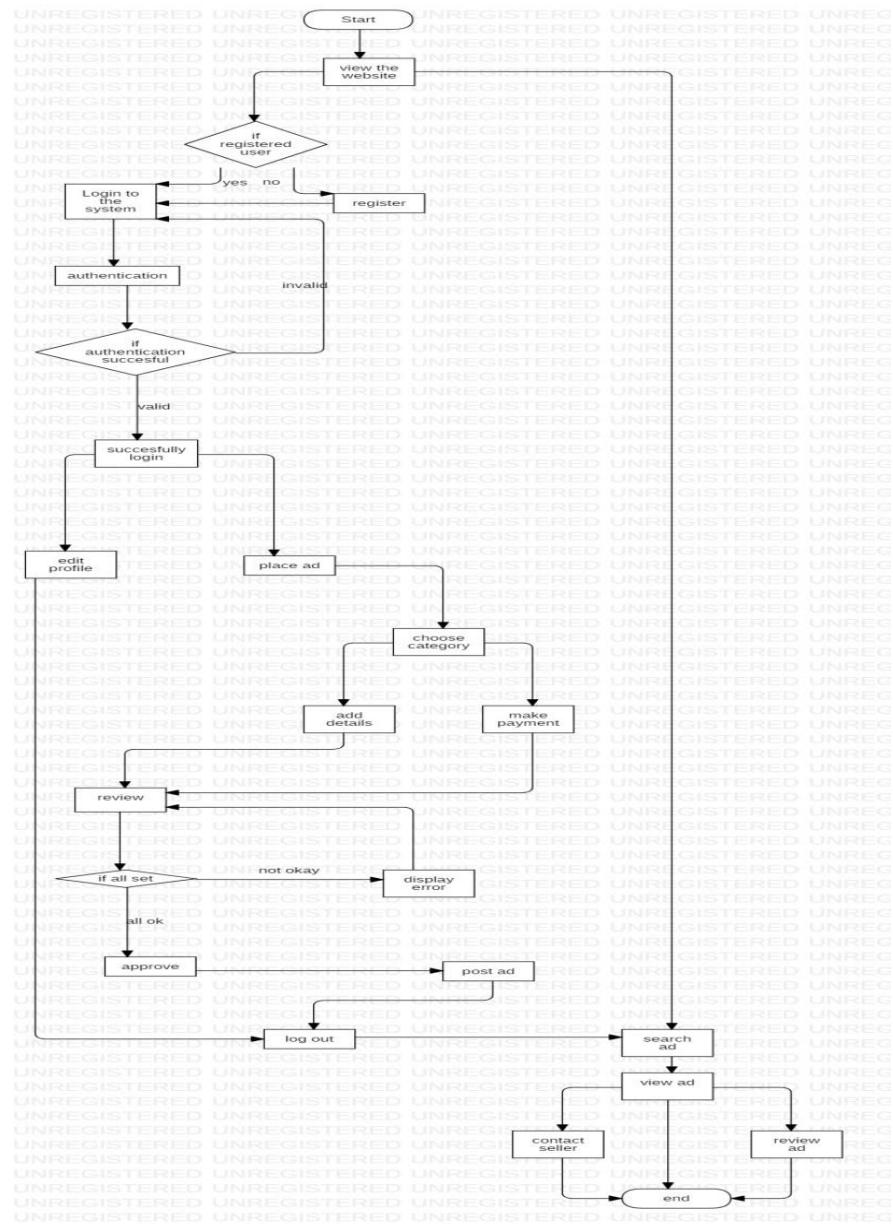


Figure 01: Flow Chart

4.2 Use Case Diagram

The system's use case shows the user a detailed view of the system and how the actors would interact with each other and with the system.

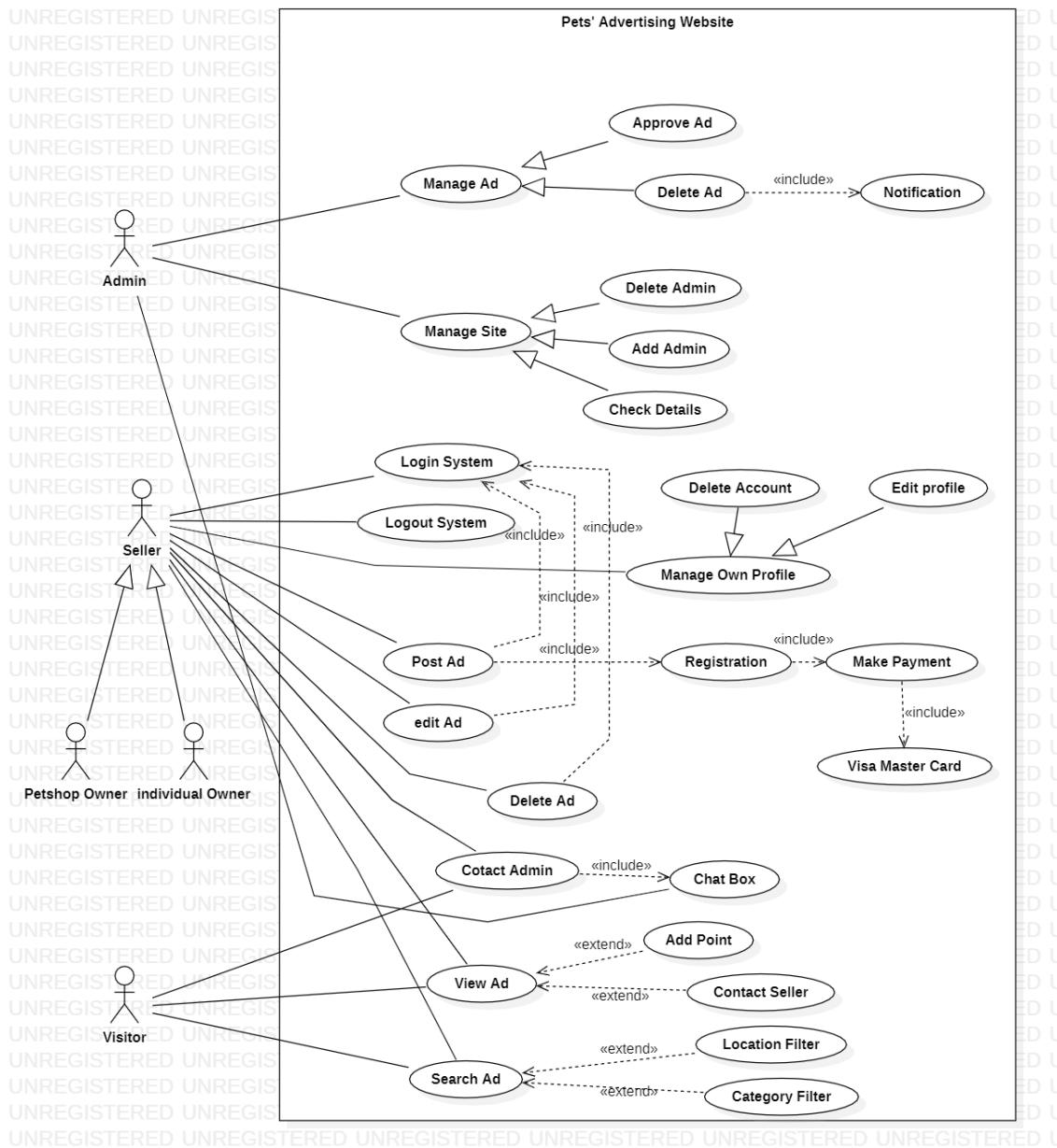


Figure 02: Use Case Diagram

4.3 Class Diagram

This is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations/methods and the relationships between the classes.

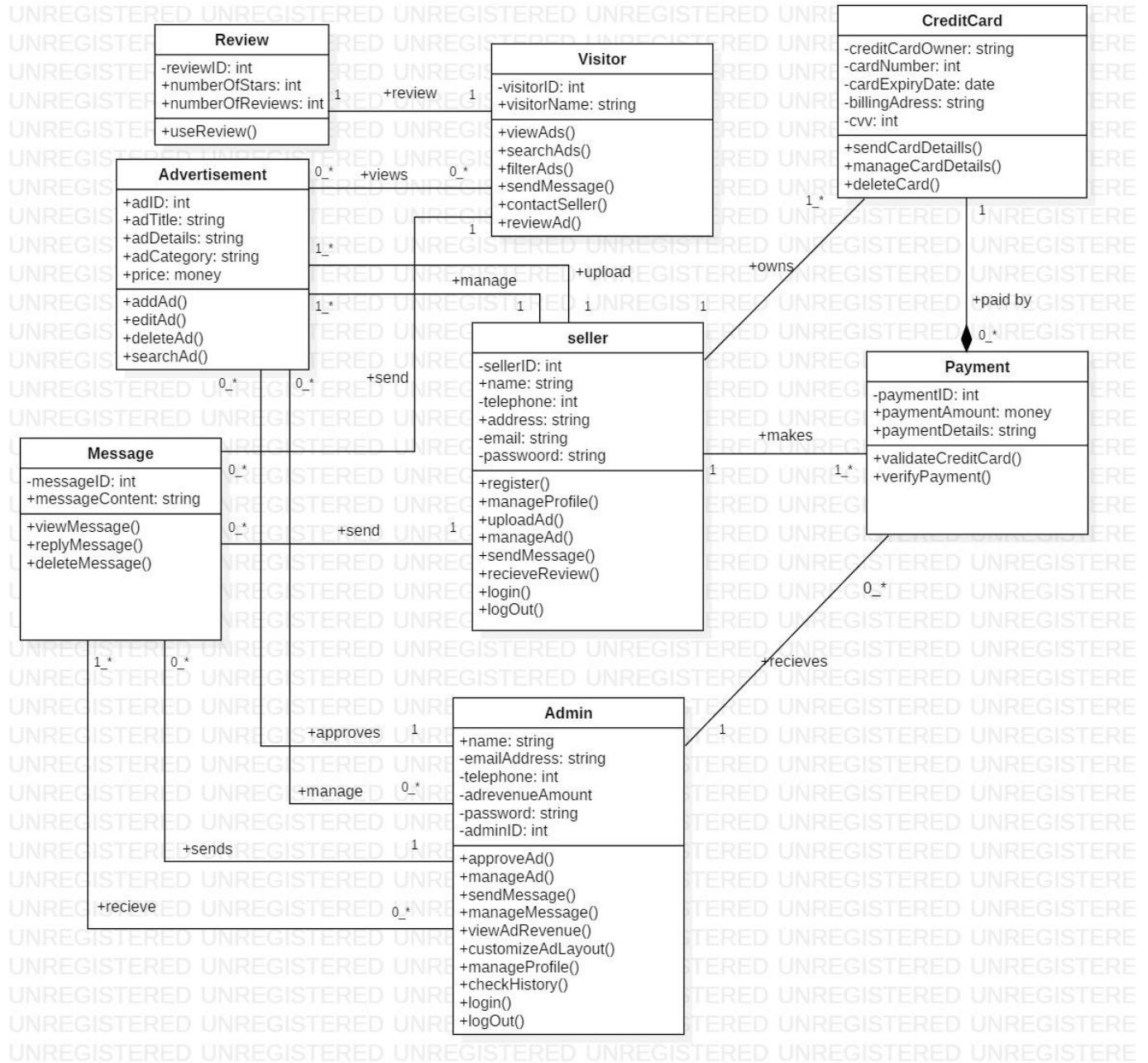


Figure 03: Class Diagram

4.4 Activity Diagram

This is a graphical representation of workflows of stepwise activities and actions with support for choice, iteration and concurrency.

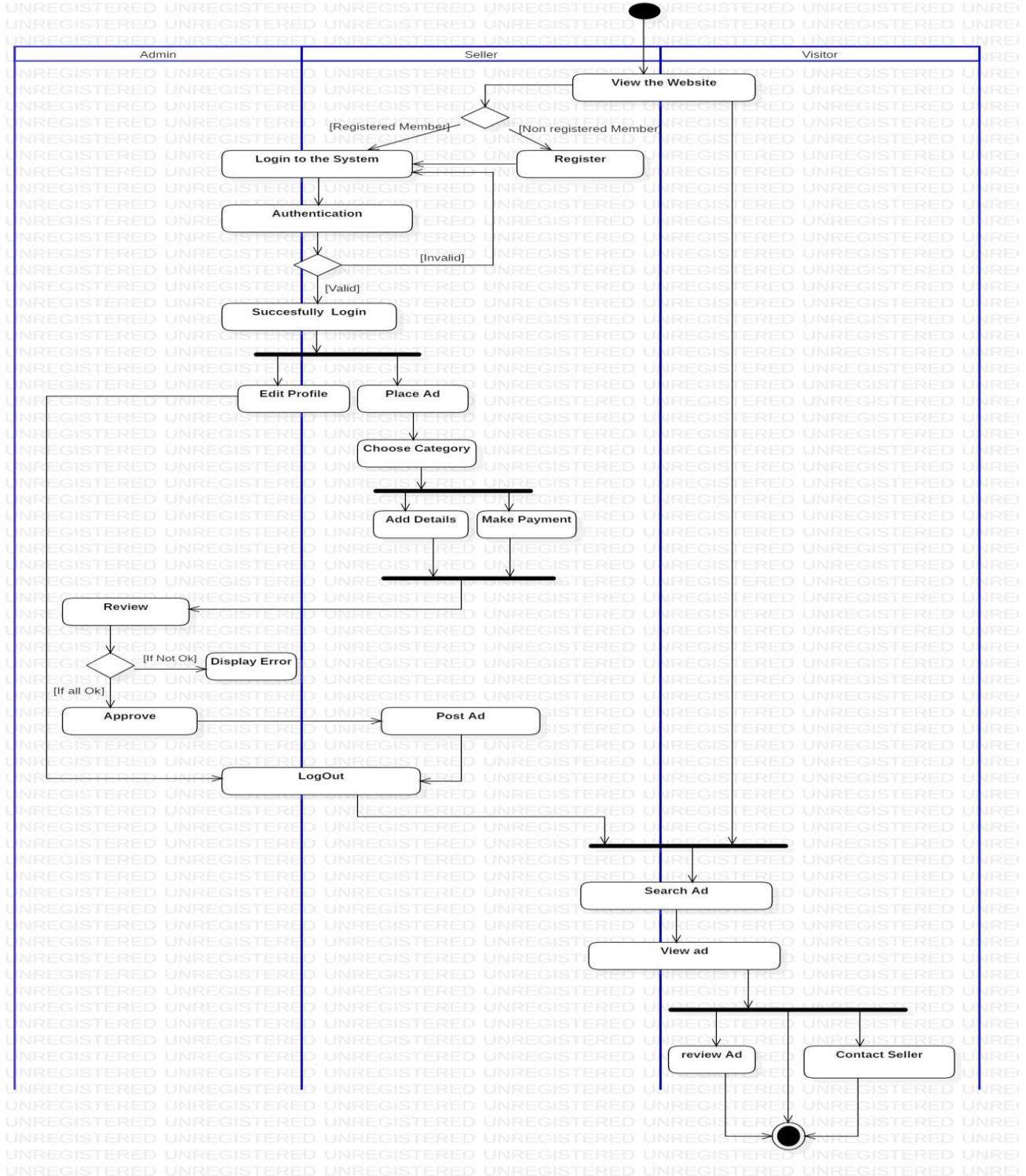


Figure 04: Activity Diagram

CHAPTER 05: Design

5.1: Data Model

A data model is a conceptual representation of the data structures that are required by a database. The first step in designing a database is to develop an Entity Relation Diagram (ERD). The ERD serves as a blueprint from which a relational database maybe deduced.

5.1.1: Entity Relationship Diagram(ER Diagram)

An entity relationship diagram (ERD) shows the relationships of entity sets stored in a database. By defining the entities, their attributes, and showing the relationships between them, an ER diagram illustrates the logical structure of databases. ER diagrams are used to sketch out the design of a database.

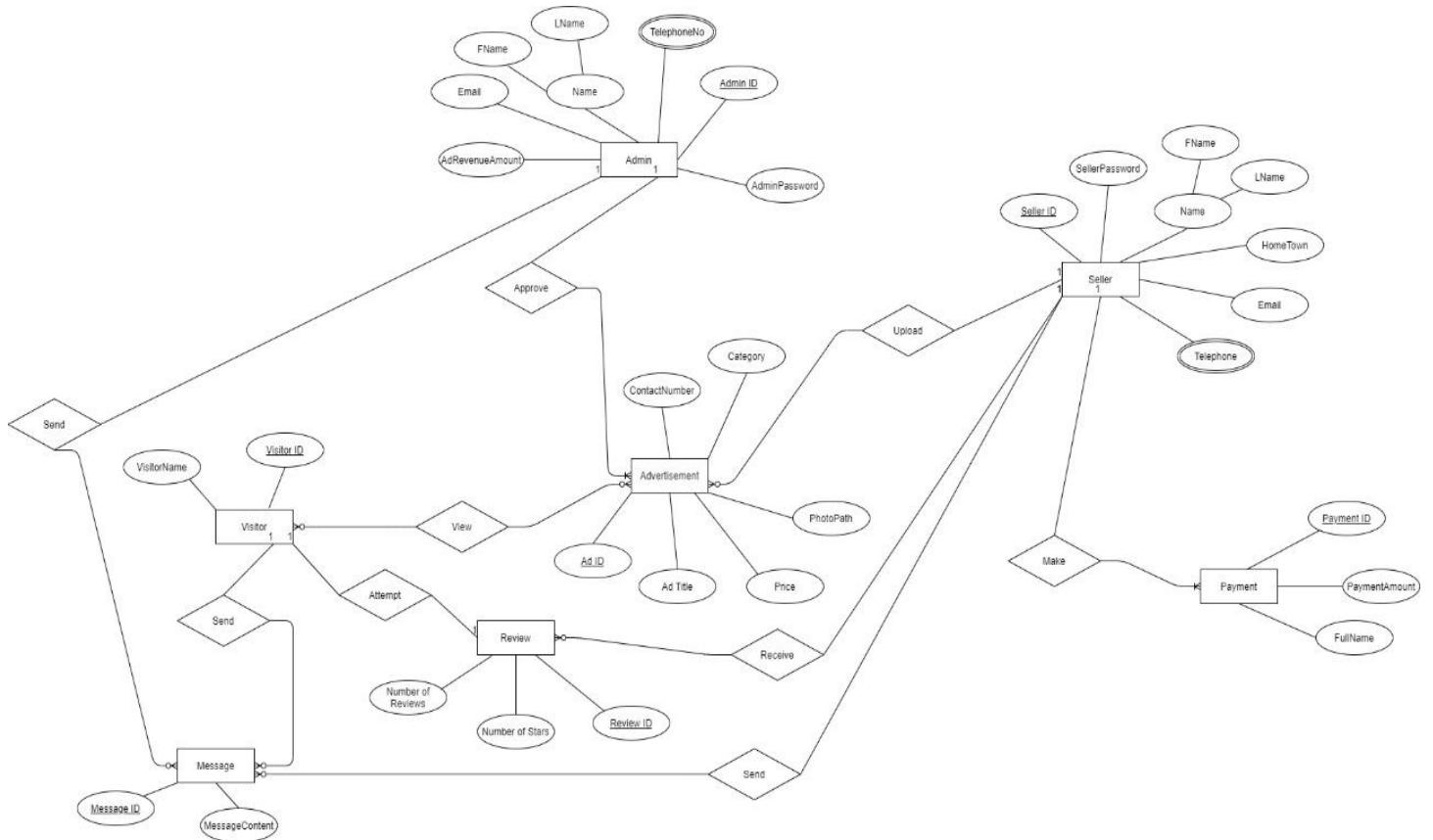


Figure 05: ER Diagram

5.1.2 Relational Schema

A relational schema outlines the database relationships and structure in a relational database program. It is the blueprint of a database that outlines the way its structure organizes data into tables.

Relational Schema Diagram

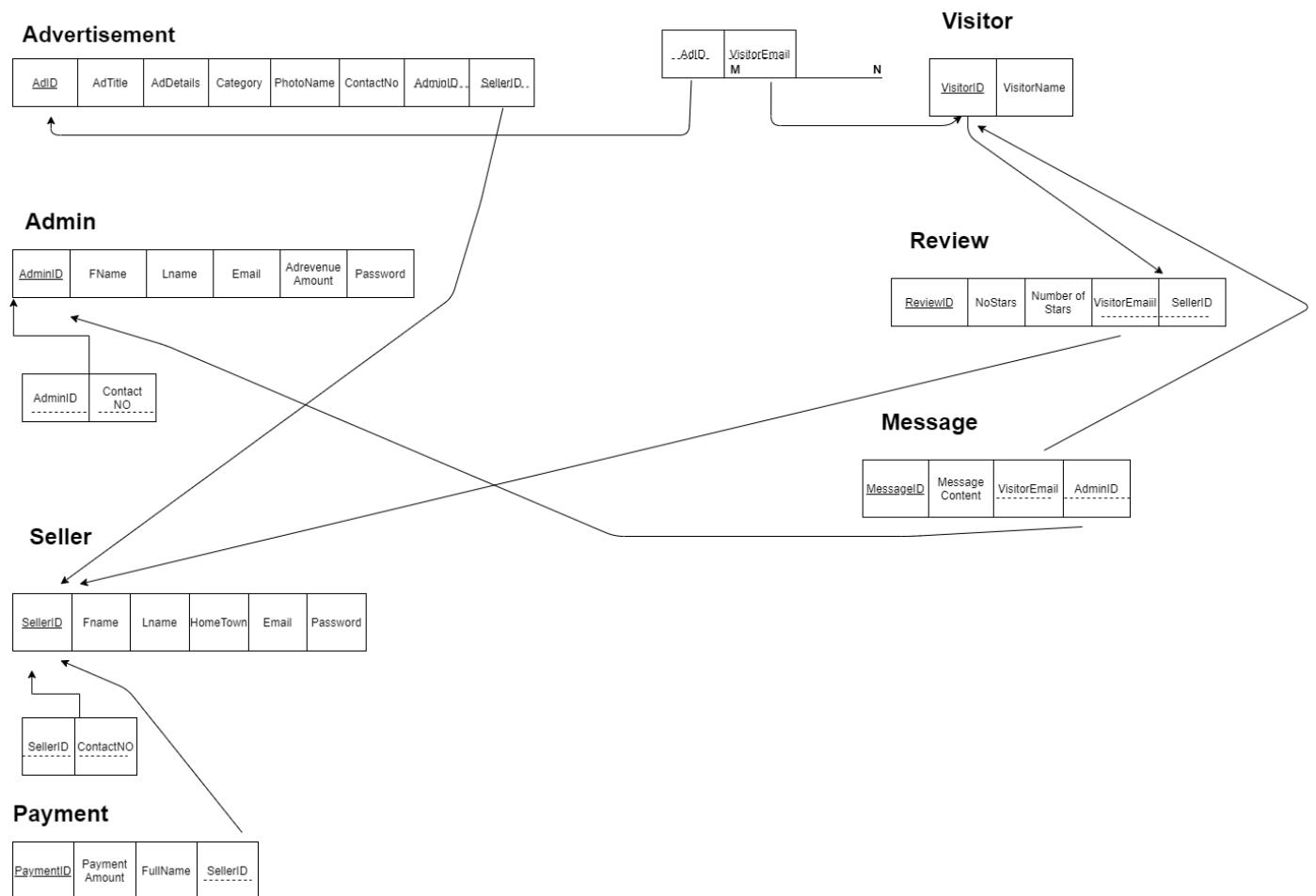


Figure 06: Relational Schema

5.2: Database Design

This is the process of producing a detailed data model of a database. This logical data model contains all the needed logical and physical design choices and physical storage parameters needed to generate a design. In this section, the basic structure of the tables composing the database for the project are shown along with information about primary and foreign keys.

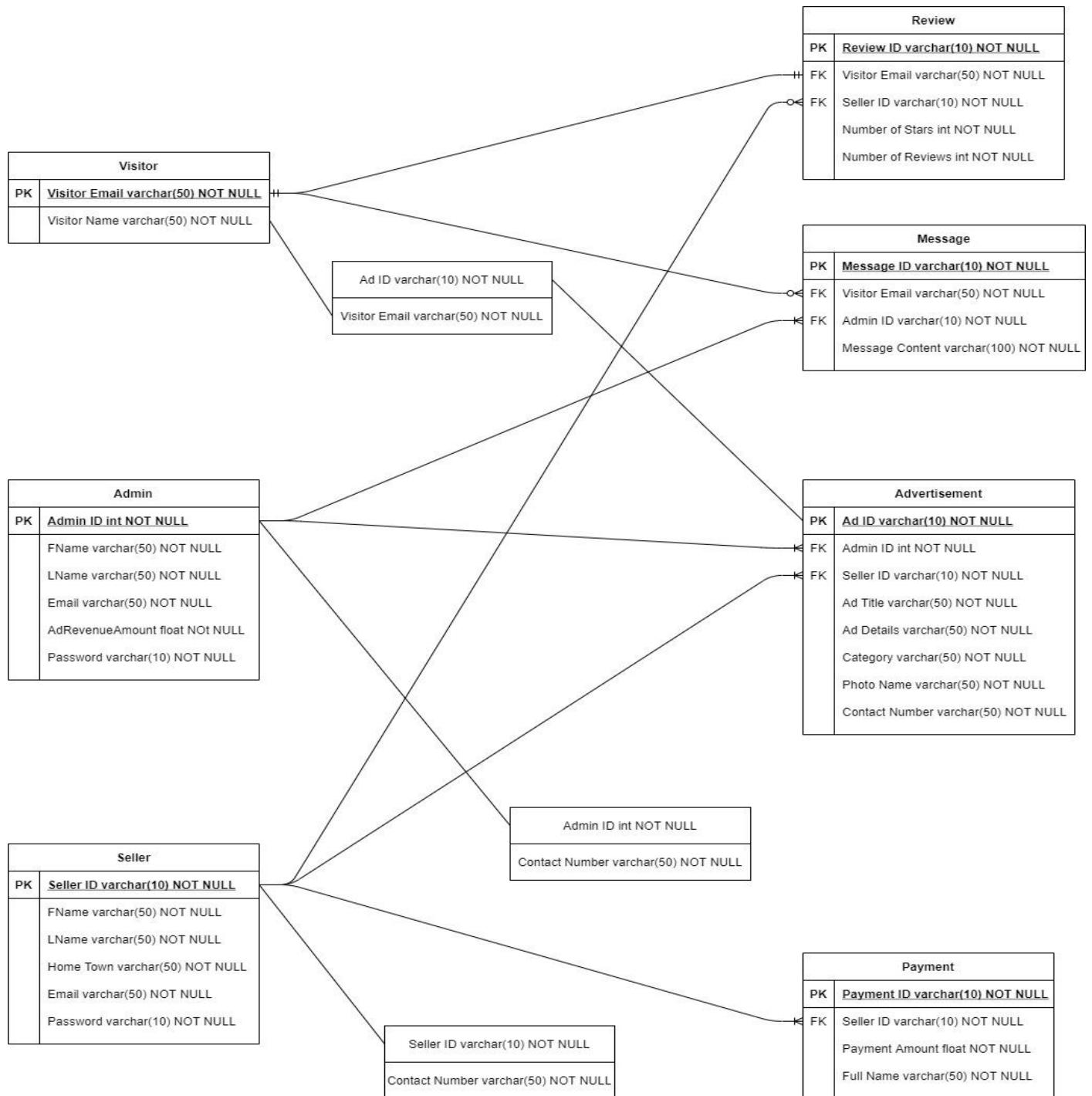


Figure 07: Database Structure

CHAPTER 6: Resources

6.1 Software Resources

- XAMPP server

XAMPP is a free and open-source cross-platform web server solution stack package. The use of XAMPP is to test the client or own website before uploading it to the remote web server. This XAMPP server software gives the suitable environment for testing MYSQL, PHP, Apache and Perl projects on the local computer.

- Visual Studio Code

Visual Studio Code is a freeware source code editor. It allows debugging code directly from its on screen editor. With support for variety of programming languages, VS code helps you be instantly productive with syntax highlighting, bracket-matching, auto-indentation, box-selection, snippets, and more.

- Adobe Photoshop

Adobe Photoshop is a raster graphics editor. It has huge number of filters, functions and tools that help the designers. It is the most widely used software tool for photo editing, image manipulation, and retouching for numerous image and video file formats. The tools within Photoshop make it possible to edit both individual images as well as large batches of photos.

- Sublime-text editor

Sublime Text editor is a sophisticated text editor for code, markup and prose. Sublime Text automatically generates a project-wide index of every class, method and function. This index powers go to definition, which is exposed in three different ways.

- Internet Browser

A browser is software that is used to access the internet. A browser lets user visit websites. The main purpose of an internet browser is to translate the code that computers use to create websites into the text, graphics, and other features of the web pages. There are many internet browsers include Mozilla Firefox, Google chrome, Opera, Safari.

6.2 Hardware Resources

- Laptop or Desktop Computer

Core i5 laptops

8 GB RAM

6mb cache memory

Graphic processor 2 GB

Display 16bit color

- Internet connection

WIFI

Mobile network

6.3 Technologies

- Bootstrap - Bootstrap is a free and open-source CSS framework. It helps to design websites faster and easier. It contains CSS and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components. It is flexible and easy to work with.
- PHP - PHP is a general-purpose, server-side scripting language. It is used to develop static websites or dynamic websites or web applications. PHP as a web development option is secure, fast and a reliable that offers lots more advantages to make it accessible to a lot of people.
- JavaScript - Java Script is a text-based programming language used to both on the client side and server side that allows making web pages interactive. It is a dynamic, weakly typed, prototype-based language with first-class functions. It allows the programmers to build large scale web application easily.
- My SQL - MySQL is a free-to-use, open-source database that facilitates effective management of databases by connecting them to the software. It can be used to store anything from a single record of information to an entire inventory of available products for an online store.
- Firebase Real-time Database - Firebase Real-time Database is a cloud-hosted NoSQL database that enables data to be stored and synced between users in real-time. Data is synced across all clients in real-time, and remains available when your app goes offline.
- HTML5 & CSS3 - HTML5 and CSS3 are two of the core technologies for building Web pages and Web applications. HTML (Hypertext Markup Language) provides the structure of the page and CSS (Cascade Styling Sheets) is responsible for the design or style of the website, including the layout, visual effects and background color.
- jQuery - jQuery is a fast and feature rich JavaScript library. The purpose of jQuery is to make it much easier to use JavaScript on your website. jQuery also simplifies a lot of the complicated things from JavaScript

CHAPTER 07: Implementation

7.1 User Interface Design & Implementation

This is one of the main task of the developer to design a graphical user interface that user attracts to and can use easily, in one word it should be user friendly. So for this we should have better understanding of customers likes and dislikes and the features that are in trend and mesmerize the public easily, initially we need to locate the targeting people that what kind of application do they need. After getting all this information we should start to design the application. After checking all the information than design this project interfaces. From page 24 - 41 shows the user interface screen shots of this project.

Home Page

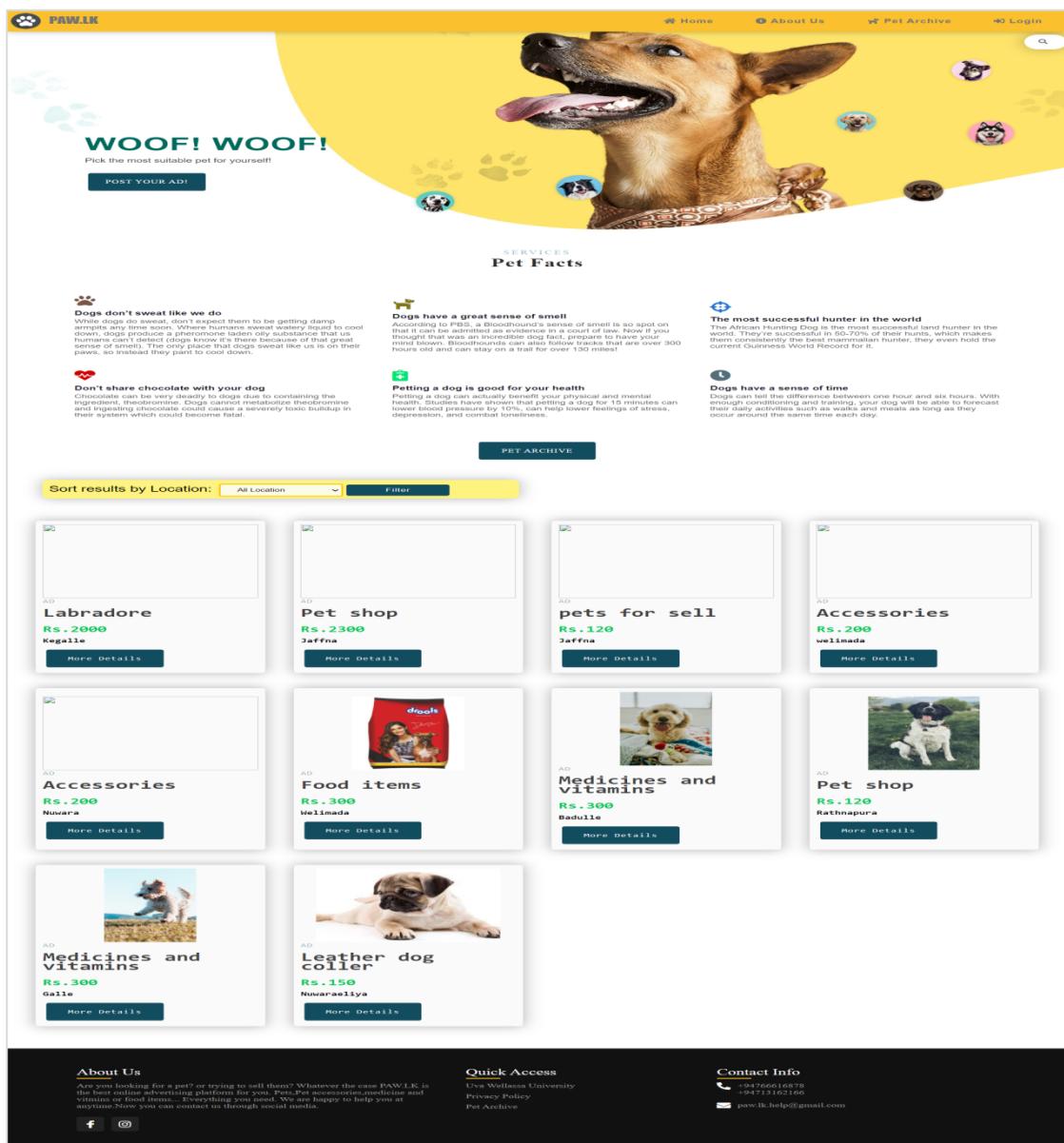


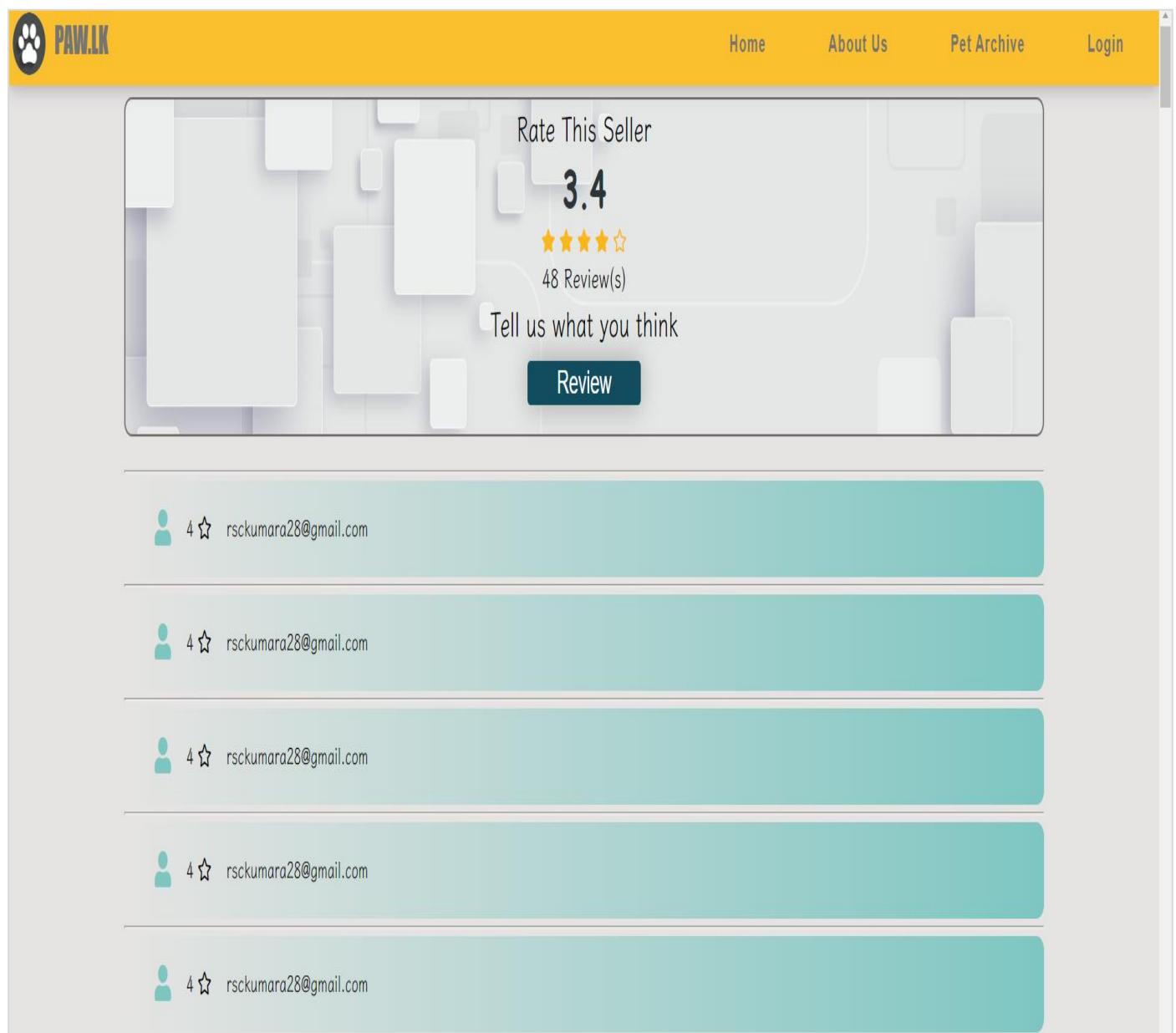
Figure 08: Screenshot of the Home Page

When a user visits the site, Home page will display. They can visit different Ads about pets. If a user wants to get more information about an Ad, they can click “More Details” and see more details.

The screenshot shows a pet listing on the PAW.LK website. At the top, there's a yellow header bar with the PAW.LK logo, navigation links for Home, About Us, Pet Archive, and Login, and a search bar. Below the header is a large image of a black and white dog sitting in a grassy field. To the left of the image, the category 'Pet shop' and the title 'Pet shop' are displayed. Below the image, the price 'Rs 120' is shown in green. A 'Description' section follows, containing a detailed paragraph about drug registration. On the right side of the listing, there are contact details: a phone icon with '0713224567', an envelope icon with 'Seller Name', and a star icon with a 'REVIEW' button. At the bottom of the page, there are sections for 'About Us', 'Quick Access' (links to Uva Wellassa University, Privacy Policy, and Pet Archive), and 'Contact Info' (phone numbers +94766616878 and +94713162166, and an email address paw.lk.help@gmail.com). Social media icons for Facebook and Instagram are also present at the bottom.

Figure 09: Screenshot of the Ad details Page

Review Page



The screenshot shows a review page from the PAWLK website. At the top, there's a yellow header bar with the PAWLK logo, navigation links for Home, About Us, Pet Archive, and Login, and a search bar placeholder 'Search...'. Below the header is a large, rounded rectangular box containing a rating summary. It says 'Rate This Seller' at the top left, followed by a large '3.4' rating, four yellow star icons, and '48 Review(s)' below them. To the right of the rating is a text input field with the placeholder 'Tell us what you think' and a dark blue 'Review' button. Below this main box are five identical teal-colored horizontal bars, each representing a previous review from a user named 'rsckumara28@gmail.com', indicated by a small profile icon and the text '4 ☆ rsckumara28@gmail.com'.

Figure 10: Screenshot of the Review Page

If a customer wants to place an ad, first they should register to the system and after that login to system. Admin also login with this Login page.

Customer Registration & login Page

Login Page

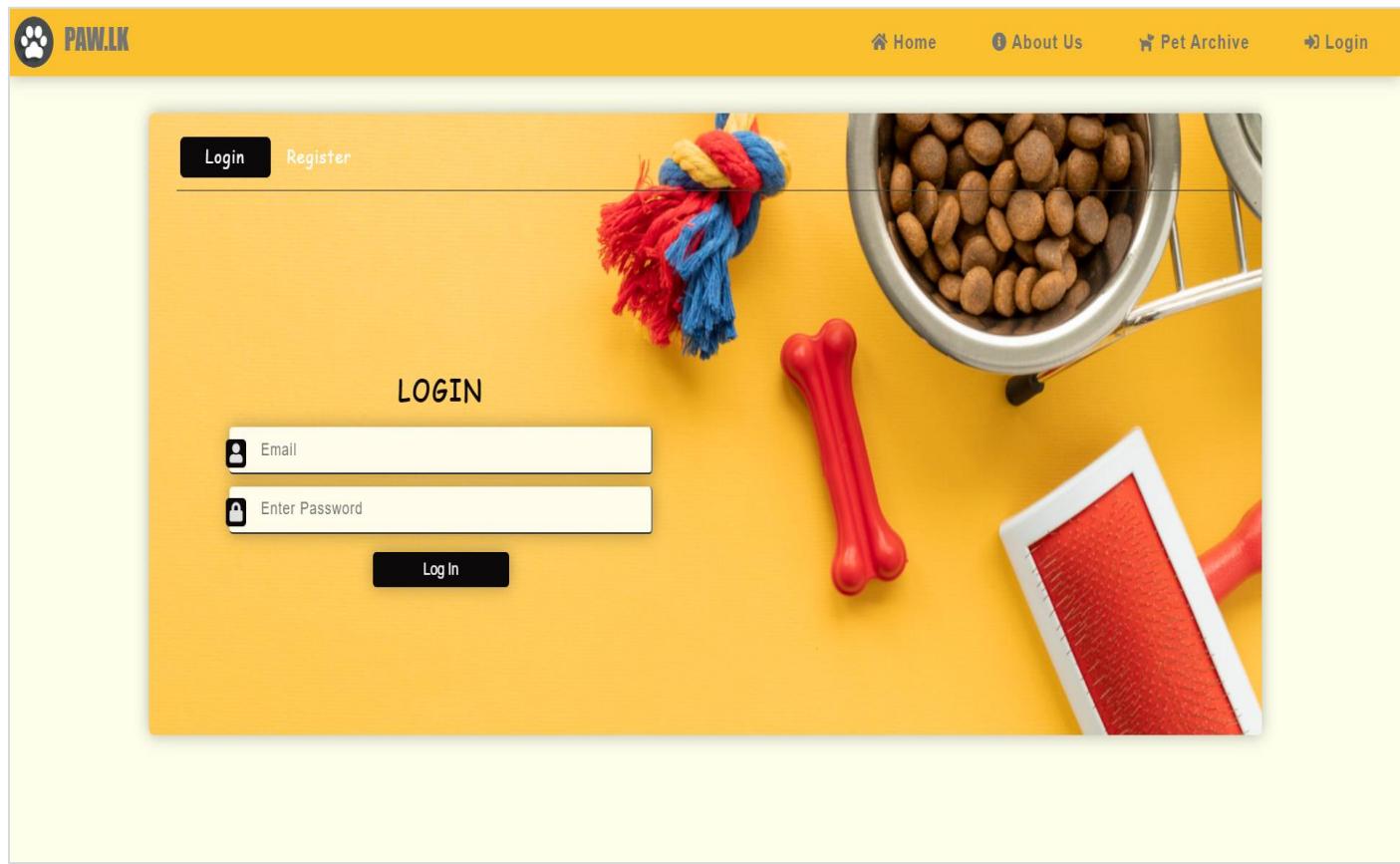


Figure 11: Screenshot of the Login Page

Registration

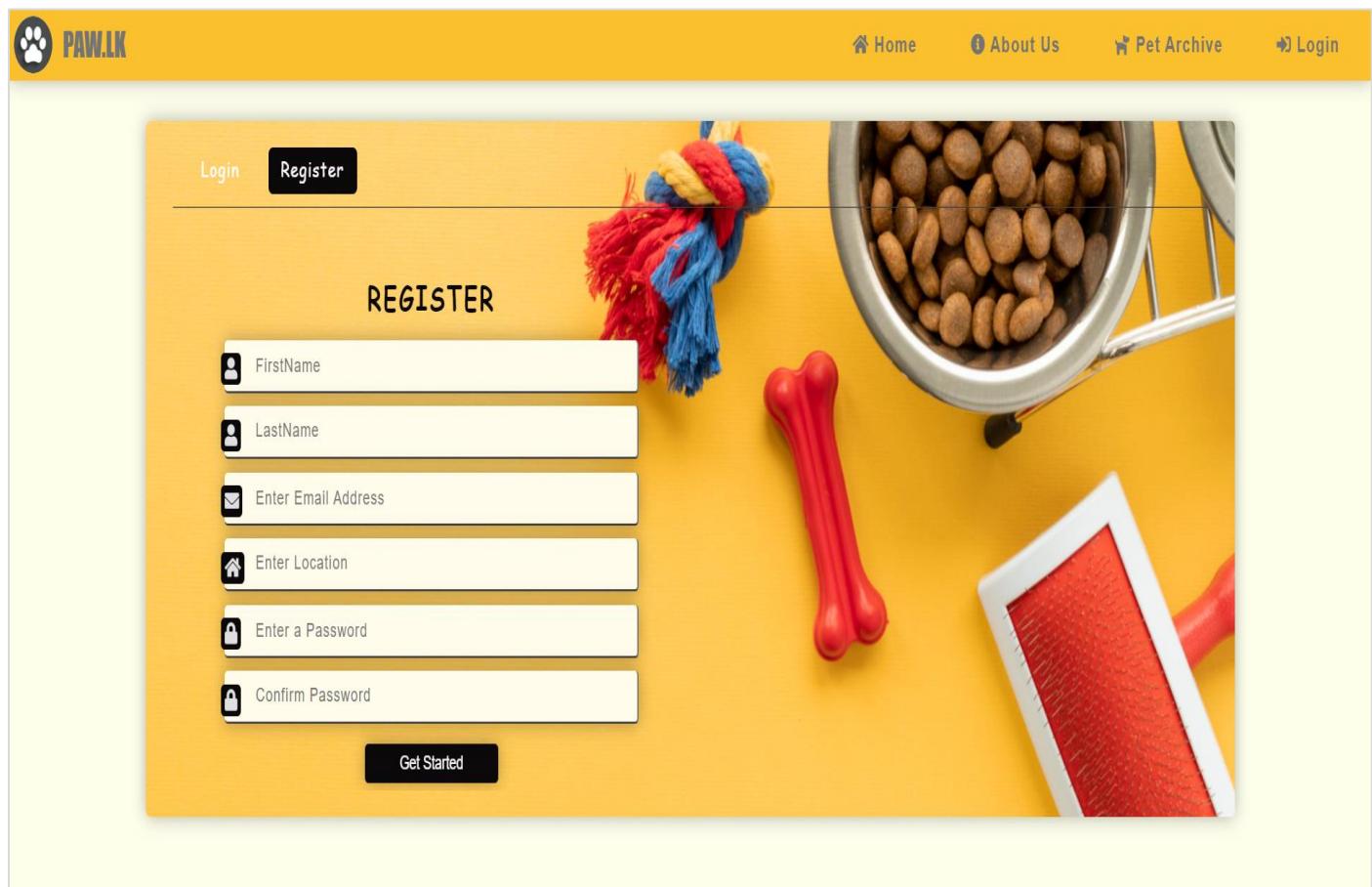


Figure 12: Screenshot of the customer Registration Page

In navigation bar there is a tab to see information about Pets. When a user clicks “Pet Archive” user can see those information.

 PAW.LK
[Home](#)
[About Us](#)
[Logout](#)

DOG DATABASE

DOGGO

American Bulldog

Loyal / Self-Confident

-  22-25 inches (males)/20-23 inches (females)
-  75-100 pounds (males)/60-80 pounds (females)
-  10 - 12 years

About the Breed

American Bulldogs are a well-balanced athletic dog that demonstrate great strength, endurance, agility, and a friendly attitude. Historically, they were bred to be a utility dog used for working the farm. The American Bulldog is a descendant of the English Bulldog. It is believed that the bulldog was in America as early as the 17th century, may come to the United States in the 1800s, with immigrants who brought their working bulldogs with them. Small farmers and ranchers used this all-around working dog for many tasks including farm guardians, stock dogs, and catch dogs. The breed largely survived, particularly in the southern states, due to its ability to bring down and catch feral pigs. The breed we know as the American Bulldog was originally known by many different names before the name American Bulldog became the standard. In different parts of the South he was known as the White English Southern Bulldog, but most commonly just "bulldog." The breed was not called a bulldog because of a certain look, but because they did real bulldog work.



DOGGO

Akita

Dignified / Courageous / Profoundly Loyal

-  26-28 inches (male)/24-26 inches (female)
-  100-130 pounds (male)/70-100 pounds (female)
-  10-13 years

About the Breed

Akitas are muscular, double-coated dogs of ancient Japanese lineage famous for her dignity, courage, and loyalty. In her native land, she's venerated as family protectors and symbols of good health, happiness, and long life. Akitas are burly, heavy-boned spitz-type dogs of imposing stature. Standing 24 to 28 inches at the shoulder, Akitas have a dense coat that comes in several colors, including white. The head is broad and massive, and is balanced in the rear by a full, curled-over tail. The erect ears and dark, shining eyes contribute to an expression of alertness and haughtiness. The breed Akitas are assertive, territorial dogs. Wary of strangers and often intolerant of other animals. Akitas will gladly share their silly, affectionate side with family and friends. They thrive on human companionship. The large, independent-thinking Akita is hardwired for protecting those they love. They must be well socialized from birth with people and other dogs.



DOGGO

Australian Shepherd

Smart / Work-Oriented / Exuberant

-  20-23 inches (male)/18-21 inches (female)
-  50-65 pounds (male)/40-55 pounds (female)
-  12-15 years

About the Breed

The Australian Shepherd, a lean, tough ranch dog, is one of those ‘only in America’ stories: a European breed perfected in California by way of Australia. Fixtures on the rodeo circuit, they are closely associated with the cowboy life. The Australian Shepherd, the cowboy’s herding dog of choice, is a medium-sized worker with a keen, penetrating gaze in the eye. Aussie coats offer different looks, including merle (a mottled pattern with contrasting shades of blue or red). In all ways, they’re the picture of rugged and agile movers of stock. Aussies exhibit an irresistible impulse to herd, anything: birds, dogs, kids. This strong work drive can make Aussies too much dog for a sedentary pet owner. Aussies are remarkably intelligent, quite capable of hoodwinking an unsuspecting novice owner. In short, this isn’t the pet for everyone. But if you’re looking for a brainy, tireless, and trainable partner for work or sport, your search might end here.



Figure 13: Screenshot of “Pet Archive” page

29

If a customer login to the system, he can login to the website with his account.

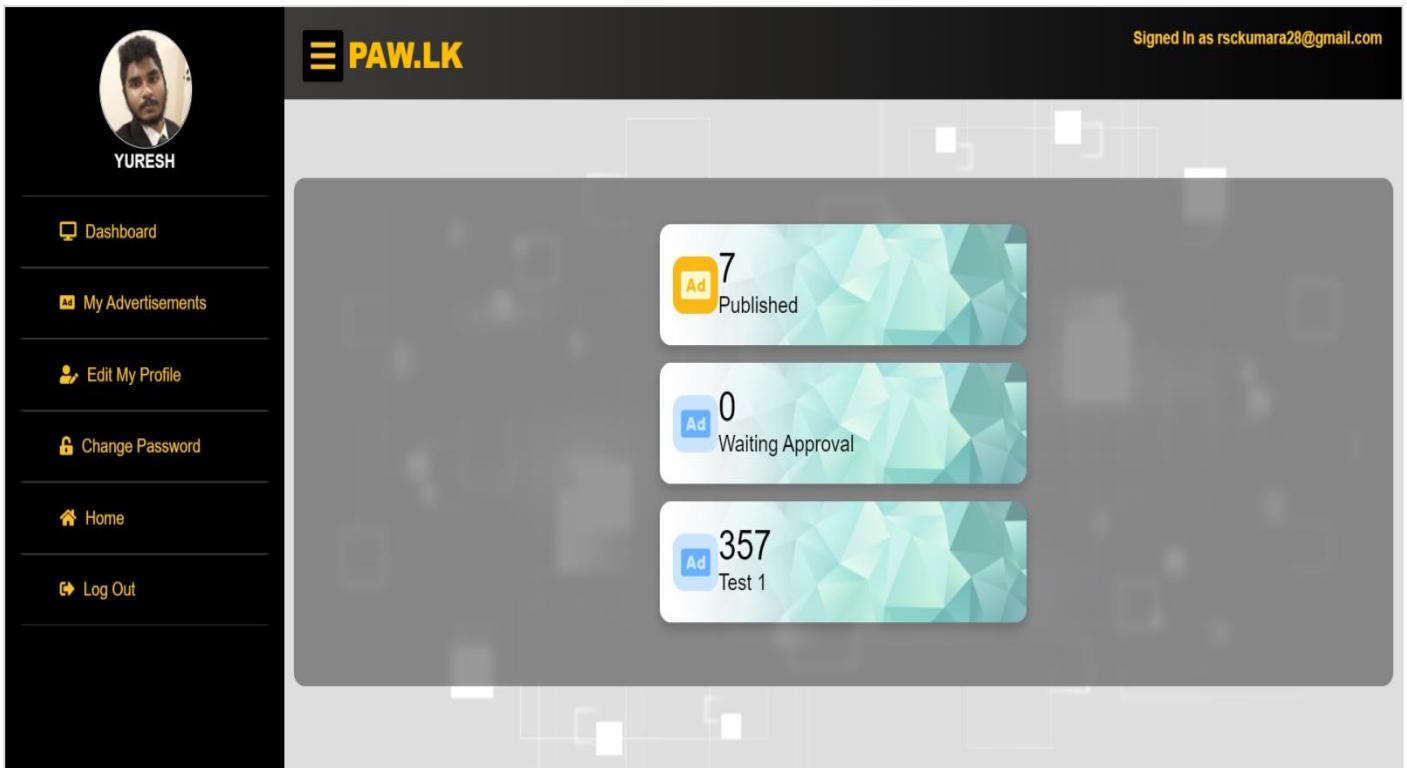


Figure 14: Screenshot of User profile page - 'Dashboard'

Category, Title or Seller Id and press Enter								
Advertisement ID	Category	Title	Details	Price	Contact	Posted Time	Is Approved	Image
Ad 14	pets	Pet shop	Ostrich – Not only the finest but also the most durable leather. Buffalo – Extremely strong, durable and rugged on the contrary it is also soft and supple. Eel – Very thin and not strong however surprisingly soft,	2300	0711292927	2021-08-07 00:00:00	true	
Ad 9	Accessories	Accessories	The first time you open Google Translate, you'll be asked to choose your primary language and the language you translate most often. To pick from available languages, tap the Down arrow	200	0711292927	2021-08-06 00:00:00	true	
Ad 7	Accessories	Accessories	The domestic dog is a domesticated descendant of the wolf. The dog derived from an ancient, extinct wolf, and the modern grey	200	0713224567	2021-08-03 00:00:00	true	
Ad 4	medicines	Medicines and vitamins	The certificate of registration is valid for 5 years. Under specific circumstances (e.g. when the drug is a new chemical entity, the manufacturer is new to this country) a provisional registration will be issued first, which is valid for one or two years. A renewal application in Schedule IV form A and other documents required should be submitted 6 months before expiration of the existing registration. Any changes (variation) of registered medicine should be informed to NMRA, NME, NDF, NCP	300	0713224567	2021-08-11 00:00:00	true	

Figure 15: Screenshot of User profile page – 'My advertisements'

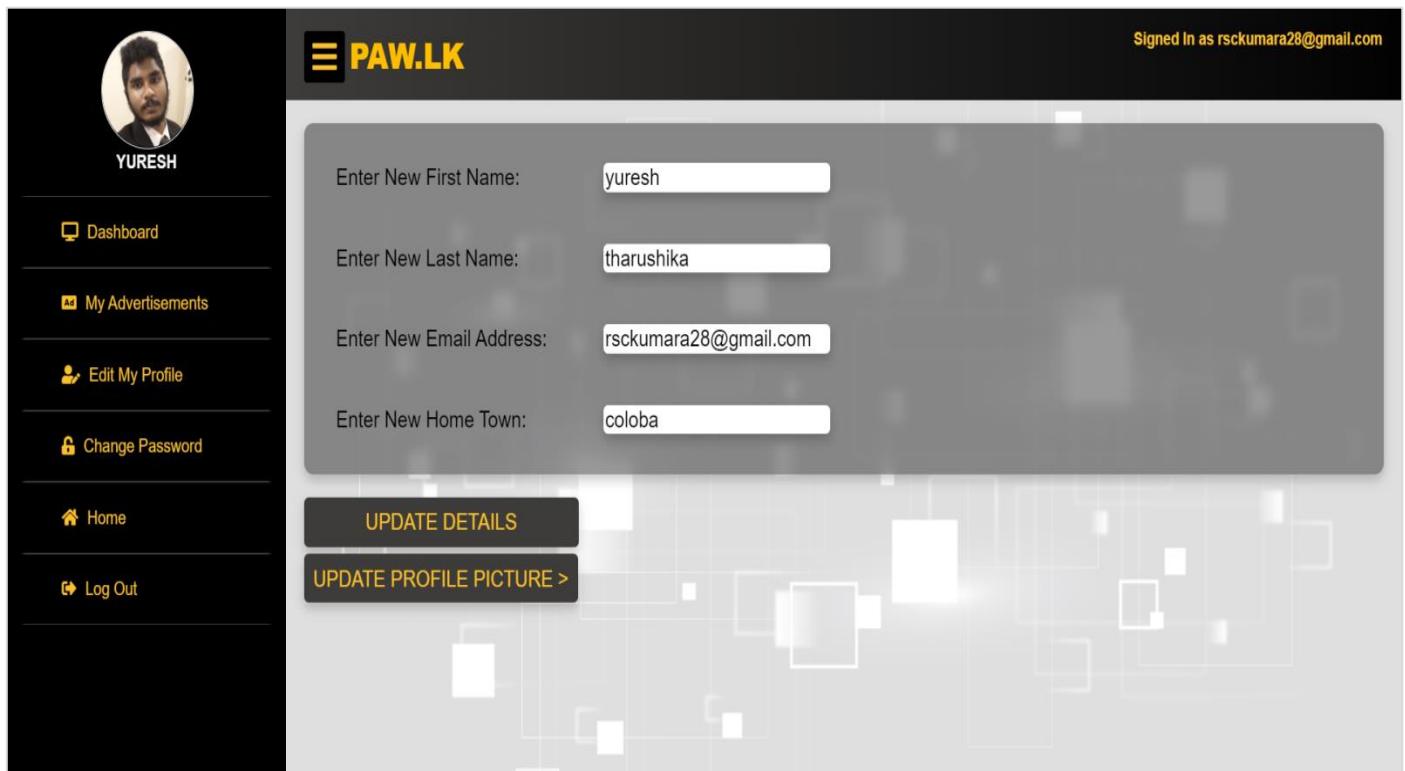


Figure 16: Screenshot of User profile page – ‘Edit My Profile’

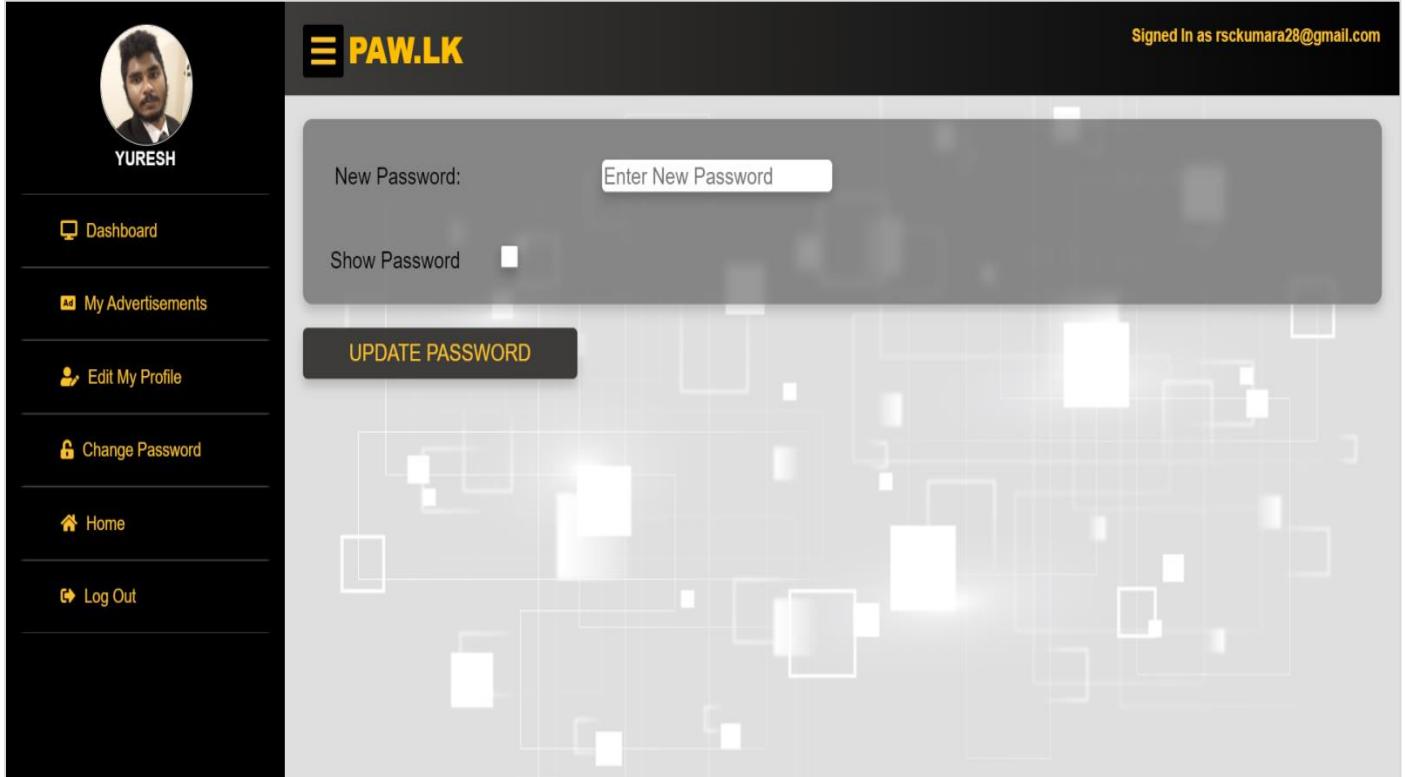


Figure 17: Screenshot of User profile page – ‘Change Password’

Advertising Page

After a customer login to the system, he can post an ad. After click “post your ad” button in home page, user goes to advertising page. Then User can set all required information and place ad.

The screenshot shows the advertising interface of the PAW.LK platform. At the top, there's a navigation bar with links for Home, About Us, Pet Archive, and Log Out. The main header is "Our Pricings". Below it, four categories are listed: PETS (Rs 999.99/MON), ACCESSORIES (Rs 599.99/MON), FOOD ITEMS (Rs 799.99/MON), and MEDICINE (Rs 399.99/MON). Each category has a list of items and a "PICK" button. The "FOOD ITEMS" section includes sub-options like Treats, Raw Food, Canned Food, Supplements, and Many more. The "MEDICINE" section includes sub-options like Vitamins, Steroids, Antibiotics, and Antiparasitics. Below this, a large dark overlay image of a puppy is visible. The main form area is titled "Setup Your Advertiesment". It contains fields for "Select Your Category", "Advertisement Title", "Contact No" (with a note about reaching customers), "Select Your location" (All Location dropdown), "Advertisiesment Description" (with a placeholder "Tell Us Something About Your Advertisiesment"), "Upload A Photo Of Your Item" (Choose File: No file chosen), "How Much Do You Want For Your Item?" (Rs input field), and a "DISCLAIMER!" section with a note about admin review and no refunds. A yellow "POST MY AD" button is at the bottom right of the form area.

PETS
Rs 999.99/MON
+ Dogs
+ Cats
+ Birds
+ Fish
+ Many more
PICK

ACCESSORIES
Rs 599.99/MON
+ Toys
+ Cages
+ Leashes
+ Collars
+ Many more
PICK

FOOD ITEMS
Rs 799.99/MON
+ Treats
+ Raw Food
+ Canned Food
+ Supplements
+ Many more
PICK

MEDICINE
Rs 399.99/MON
+ Vitamins
+ Steroids
+ Antibiotics
+ Antiparasitics
+ Many more
PICK

Setup Your Advertiesment

Select Your Category

Advertisiesment Title

Contact No
Customers Can Reach You On This Number

Select Your location All Location

Advertisiesment Description
Tell Us Something About Your Advertisiesment

Upload A Photo Of Your Item
Choose File No file chosen

How Much Do You Want For Your Item?
Rs

DISCLAIMER !
Your advertiesment will be reviewed by the admin before published. Admin has the full authority to disqualify and delete your advertiesment without further notice by any means necessary if it incorporates any inappropriate material. THERE WILL BE NO REFUNDS. We recommend you check our [Privacy Policy](#) before submitting the advertiesment.

POST MY AD

About Us
Are you looking for a pet? or trying to sell them? Whatever the case PAW.LK is the best online advertising platform for you. Pets,Pet accessories,medicine and vitrmins or food items... Everything you need. We are happy to help you at anytime.Now you can contact us through social media.

Quick Access
Uva Wellassa University
[Privacy Policy](#)
[Pet Archive](#)

Contact Info
+94766616878
+94713162166
paw.lk.help@gmail.com

[f](#) [g](#)

Figure 18: Screenshot of the Advertising page

After set all required information and click ‘post ad’, customer can see auto filled form with item details and customer details in the ad to be posted.

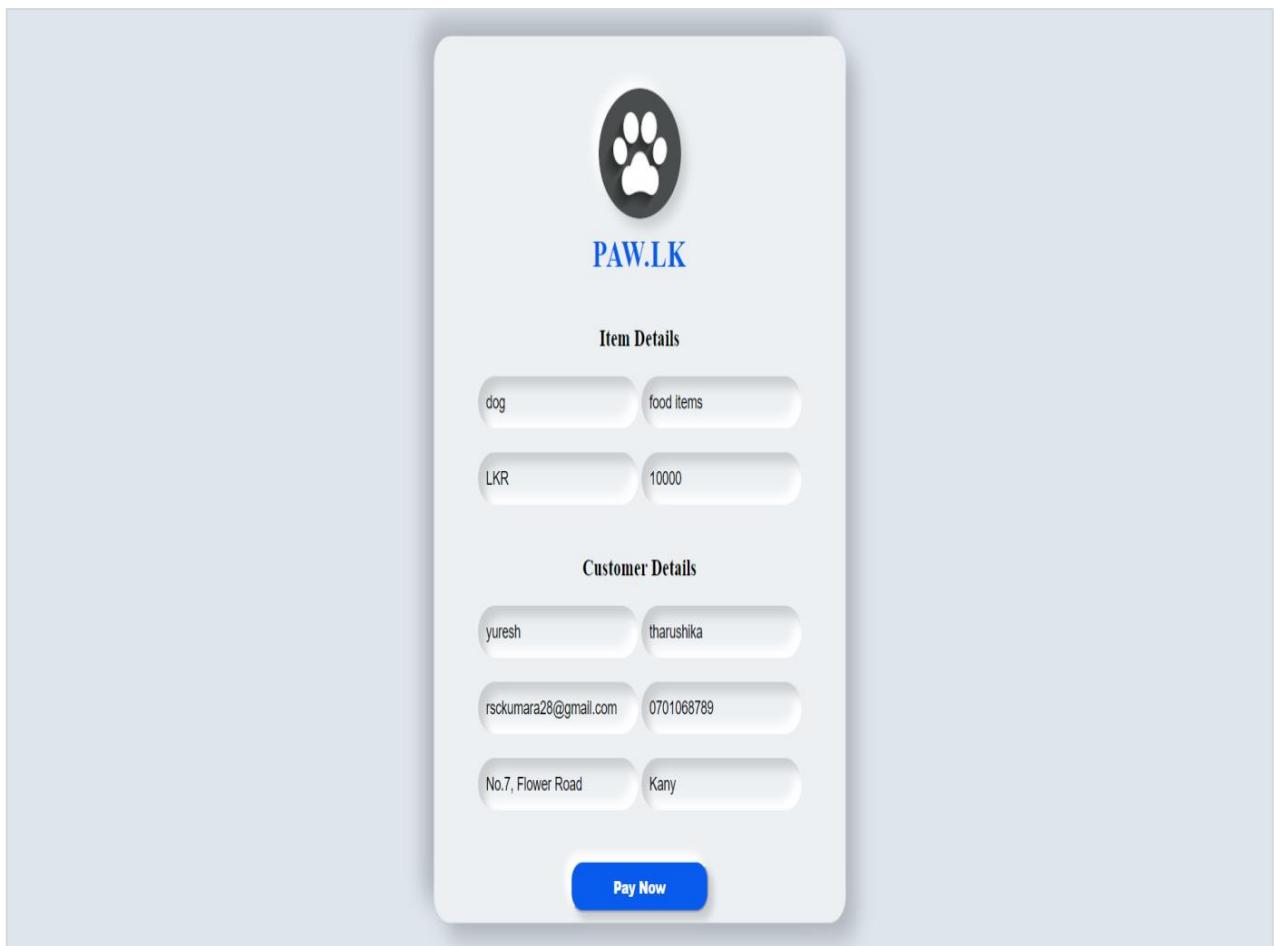


Figure 19: Screenshot of customer & item details in the ad to be posted

Payment Page

If customer ok with those things, he can pay for ad. After admin approval, ad will post in the website.

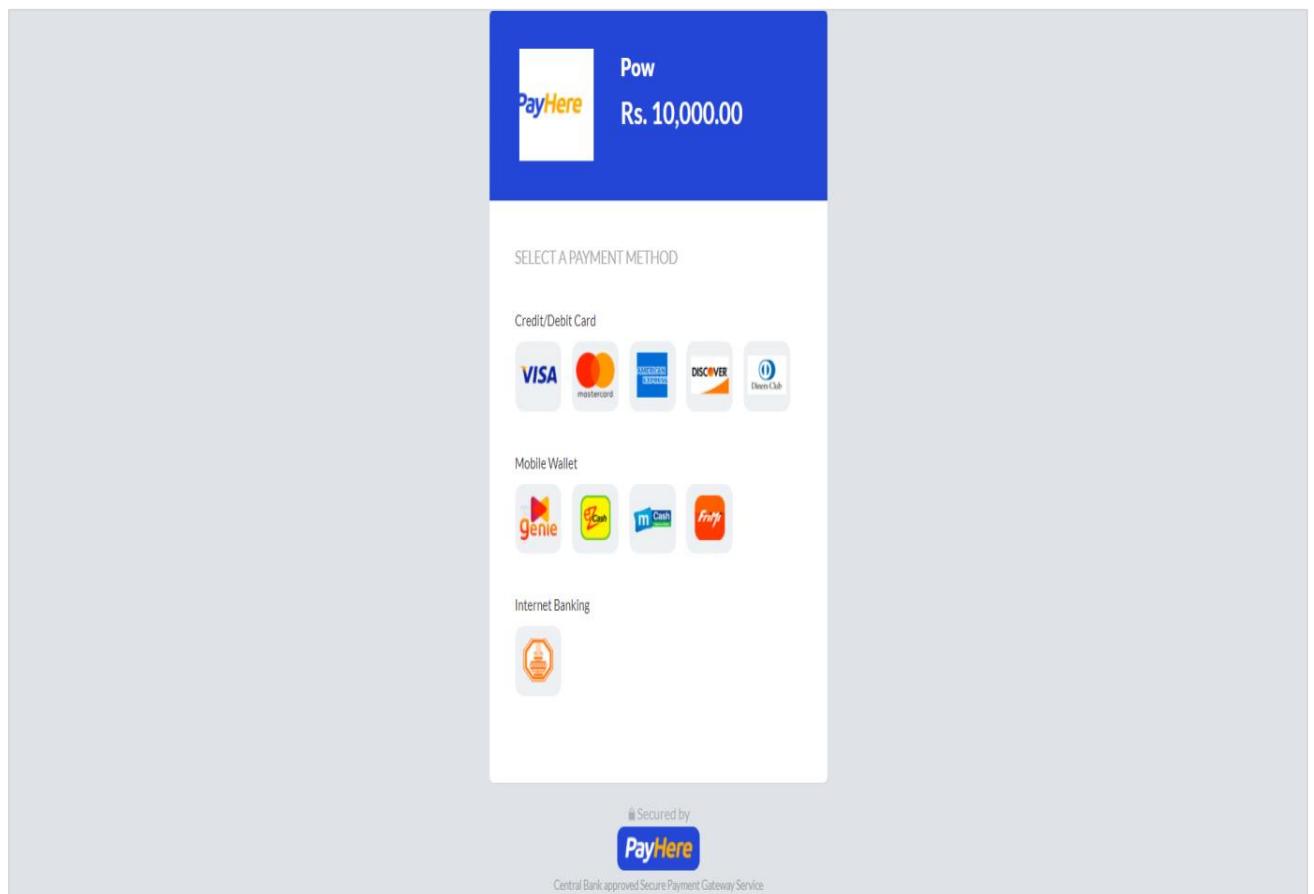


Figure 20: Screenshot of payment page

Admin Panel

Both Admin and Customer login to the system with same login page. After an admin login to system he can manage his admin profile.

Admin Profile Page



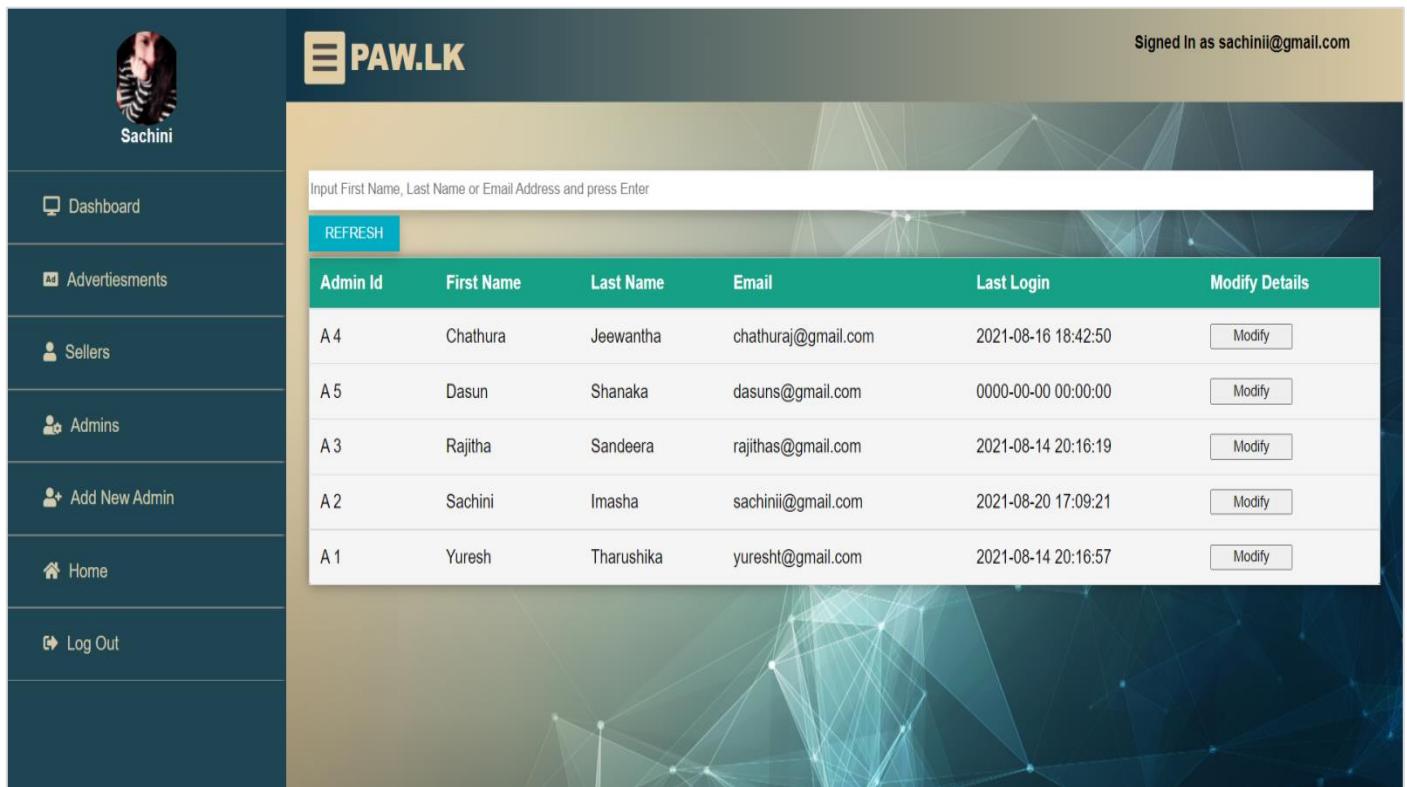
Figure 21: Screenshot of the Admin Profile Page- Dashboard

Add Id	Category	Title	Details	Price	Contact	Posted Time	Seller Id	Is Approved	Image
Ad 91	medicines	Labradore	Tablet	2000	0112365894	2021-08-15 14:18:10	S 29	true	
Ad 59	medicines	Leather dog collar	Take action and help us creating a world where animals live in a safe and healthy habitat. We fight to save the planet and make it a better place for every living being. Defend Animals. Let's change the world. Help Animals. Types: Fundraising Campaigns, Petitions.	3000	0711292927	2021-08-13 00:00:00	S 29	false	
Ad 58	Accessories	Pet shop	Take action and help us creating a world where animals live in a safe and healthy habitat. We fight to save the planet and make it a better place for every living being. Defend Animals. Let's change the	34546	0711292927	2021-08-04 00:00:00	S 29	false	

Figure 22: Screenshot of the Admin Profile Page- Advertisements

Seller Id	First Name	Last Name	Email	Location	Last Login	Seller Profile	Delete
S 32	Chathura	jeewantha	rajithasandeerachathuranga@gmail.com	anuradhapura	0000-00-00 00:00:00	View	Delete
S 29	Rajitha	sandeera	rajithasck@gmail.com	ettampitiya	2021-08-16 18:41:18	View	Delete
S 28	yuresh	tharushika	rsckumara28@gmail.com	coloba	2021-08-20 17:04:28	View	Delete

Figure 23: Screenshot of the Admin Profile Page- Sellers



Signed In as sachinii@gmail.com

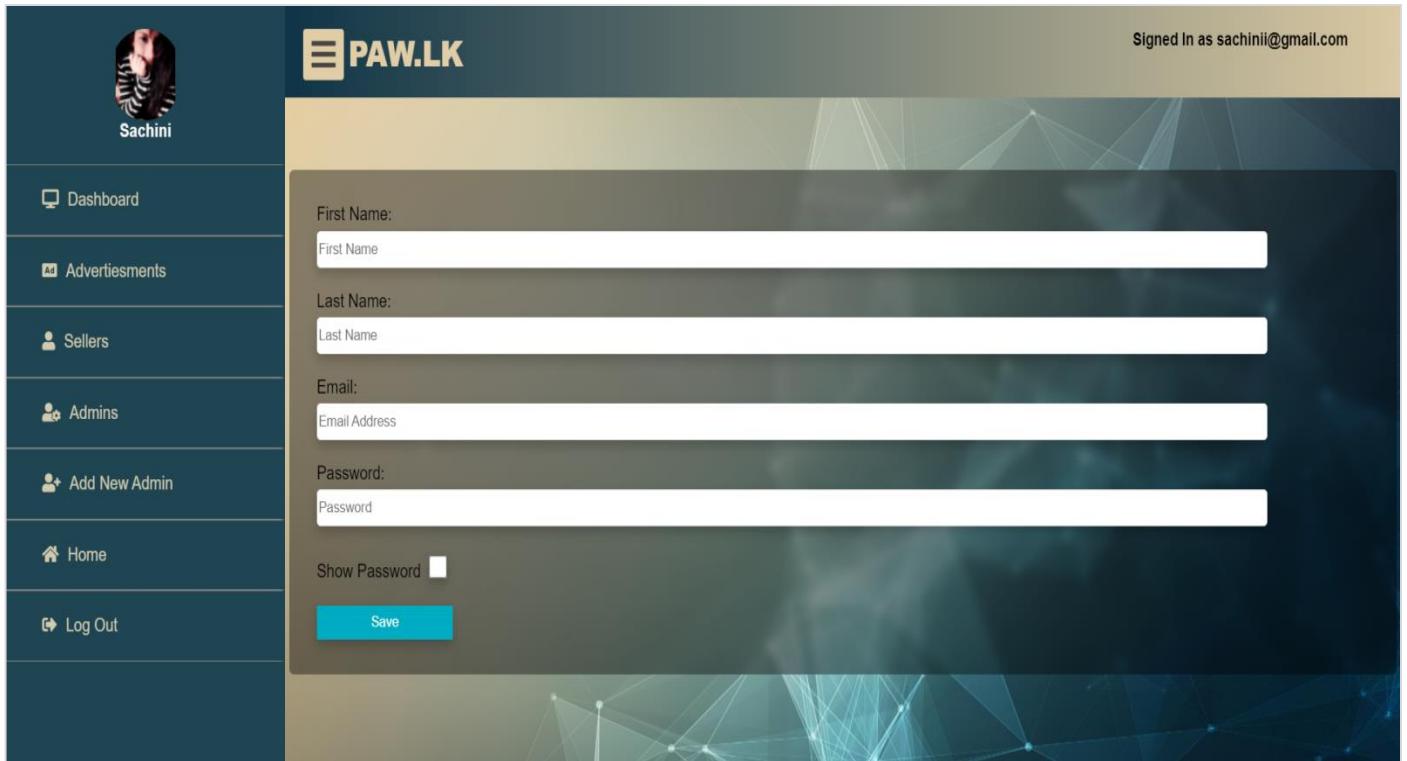
PAW.LK

Input First Name, Last Name or Email Address and press Enter

REFRESH

Admin Id	First Name	Last Name	Email	Last Login	Modify Details
A 4	Chathura	Jeewantha	chathuraj@gmail.com	2021-08-16 18:42:50	<button>Modify</button>
A 5	Dasun	Shanaka	dasuns@gmail.com	0000-00-00 00:00:00	<button>Modify</button>
A 3	Rajitha	Sandeera	rajithas@gmail.com	2021-08-14 20:16:19	<button>Modify</button>
A 2	Sachini	Imasha	sachinii@gmail.com	2021-08-20 17:09:21	<button>Modify</button>
A 1	Yuresh	Tharushika	yuresht@gmail.com	2021-08-14 20:16:57	<button>Modify</button>

Figure 24: Screenshot of the Admin Profile page – Admins



Signed In as sachinii@gmail.com

PAW.LK

First Name:

Last Name:

Email:

Password:

Show Password

Save

Figure 25: Screenshot of the Admin Profile page – Add New Admin

About Us Page

About Us
Welcome to PAW.LK Pet Advertising Website!
The Best Solution for All Your Pet Related Needs!

Find Local Buyers for Your Pet
Whether you have one pet to sell or are a professional breeder you want a way to get your pets out in the local community. Local pet sales are easier on both the owner and pet. It reduces the stress involved in traveling with pets. You are guaranteed to make contact with larger numbers of individuals serious about finding the pets you have to offer. Using PAW.LK is the simplest solution to finding the best home for your pet.

Place Pet Ads at Affordable Cost
The cost of advertising your pet locally and through nationwide venues can strain your budget. Newspapers and local publications can be the most costly of all choices. Also they are not effective in current market field either. You can post information about your pets on law cost that are read by people interested in taking the next step in pet ownership. Choose one that is specialized to the pet market.

Quickly Find Local Pets for Sale
Our site is priceless when you are looking for a specific type of dogs and cats. Rather than pouring through a pet category you can choose from categories that separate the different types of dogs and cats. You won't have to look over tons of dog posts to find the specific type you want to purchase. Find the desired pet, accessories or as close to your location with affordable prices as soon as possible.

Why PAW.lk is Best?
While we do require administrator approval for every ad that's posted, all ads are generally approved within short time with about 95% of members having to wait no more than a hour. The reason we require approval is to screen the ads that are placed. For each ad, we perform various checks that we've deemed to be the most important throughout the years. We know how to keep our website clean and clear of fraudulent advertisements. As long as you behave and don't spam our website, we'll allow you to post as many ads as you wish. We have no limits here. We may suggest how to best consolidate ads and a few other things from time to time, but as long our ads are clean, honest and of quality, we'll allow you to post as you please.

Join with PAW.LK Online Pet Advertising Platform to Post Your Ads Today!

Our Team

	M.G.S.I. Sewwandi Undergraduate Student of UWU mgsimashai@gmail.com		R.M.R.S.C. Kumara Undergraduate Student of UWU rajithasck@gmail.com
	K.Y.T. Dilshan Undergraduate Student of UWU yureshtharushike@gmail.com		C.J.M.H. Bandara Undergraduate student of UWU chathurajmhb7@gmail.com

About Us
Are you looking for a pet? or trying to sell them? Whatever the case PAW.LK is the best online advertising platform for you. Pets, Pet accessories, medicine and vitamins or food items... Everything you need. We are happy to help you at anytime. Now you can contact us through social media.

Quick Access
Uva Wellassa University
Privacy Policy
Pet Archive

Contact Info
+94766616878
+94713162166
paw.lk.help@gmail.com

Figure 26: Screenshot of the About Us Page

In the Footer of the website, can see Privacy policy option under ‘Quick Access’.

The screenshot shows the PAW.LK website with a yellow header bar. The header includes a logo, navigation links for 'Home', 'About Us', and 'Login', and a search bar. Below the header is a grey sidebar containing the 'Privacy Policy' section. The main content area has a light grey background and contains various sections like 'Information Collection and Use', 'Cookies', 'Service Providers', etc., each with descriptive text and bullet points. At the bottom of the main content area is a 'Validity period of an Advertisment' section with a note about the 30-day review period. The footer is black and features three columns: 'About Us' (with a brief description), 'Quick Access' (listing 'Uva Wellassa University', 'Privacy Policy', and 'Dog Database'), and 'Contact Info' (with phone numbers and an email address). Social media icons for Facebook and Twitter are also present in the footer.

PAW.LK

Home About Us Login

Privacy Policy

This page is used to inform visitors regarding our policies with the collection,use, and disclosure of Personal information if anyone decided to use our service.additionally what we tolerate in our website including how to setup an proper advertiesment without getting disqualified.

If you chose to use our service,then you agree to the collection and use of information in relation to this policy. The personal information that we collect is used for providing and improving the service. we will not use or share your information with anyone except as described in this privacy policy.

Information Collection and Use

For a better experience while using our service,we may require you to provide us with certain identifiable, including name,email contact number.The information that we request retained on our database and is not shared with any third parties by us in any way.

Cookies

Cookies are files with a small amount of data that are commonly used as anonymous unique identifiers. These are sent to your browser from the websites you visit and are stored on your device's internal memory. Our website does not use these "cookies" explicitly.However,we may use third party code and libraries that use "cookies" to collect information and improve their services.You have the option to either accept or refuse these cookies and know when a cookie is being sent to your device.If you choose to refuse our cookies you may not be able to use some portions of this service.

Service Providers

We may employ third party companies and individuals due to the following reasons:

- To facilitate our service
- To provide the service on our behalf
- To perform service related services
- To assist us in analyzing how our service is used

We want to inform users of our website that these third parties have access to your personal information. The reason is to perform the tasks assigned to them on our behalf. However,they are obligated not to disclose or use the information for any other purpose.

Security

We value your trust in providing us your personal information,thus we are striving to use commercially acceptable means of protecting it.But remember that no method of transmission over the internet or method of electronic storage is 100% secure and reliable and we cannot guarantee its absolute security.

Links to Other Sites

Our website may contains links to other sites.If you click on a third party link,you will be directed to that site. Note that these external sites are not operated by us.Therefore we strongly advise you to review the privacy policy of these websites. We have no control over and assume no responsibility for the content,privacy policies or practices of any third party sites or services.

Children's Privacy

These services do not address anyone under the age 18.We do not knowingly collect personally identifiable information from individuals under 18.In the case we discover that a individual under 18 has provided us with personal information we immediately delete this from our servers.If you are parent or guardian and you are aware that your children has provided us with personal information,please contact us so that we will be able to necessary actions.

Advertisment Approval

Whenever you setup an advertiesment and submit,it will be on hold in the admin panel for a breif period of time.Your advertiesment will be reviewed by the admin before published. Admin has the full authority to disqualify and delete your advertiesment without any further notice by any means necessary if it incorporates any inappropriate material. THERE WILL BE NO REFUNDS. Your Advertiesment will be disqualified if it incorporates one or more things listed below here.

- Posting about vehicles,real states or any other things that directly does not relate to pets
- Illegal drugs medicine or pet related accessories
- Pornography
- Child related content(equipment media or any other)
- Weapons and Firearms
- Video games,movies,tv shows or any other media content
- Illegal pets or exotic animals
- When the photograph does not represent the topic or description
- When the photograph does not represent the actual item or pet
- If any of the topic or description contains hatespeech or racist comments

Validity period of an Advertisment

When an advertiesment is placed by a seller it will be reviewed by the admin. If the advertiesment is approved and published on the site it will be kept on the site for 30 days starting from the day it was published on the site.After that time period the advertiesment will be expired and removed from the site without any further notice.If you wish to keep your advertiesment any longer than 30 days you will have to pay the full payment again.

About Us

Are you looking for a pet? or trying to sell them? Whatever the case PAW.LK is the best online advertising platform for you. Pets,Pet accessories,medicine and vitamins or food items... Everything you need. We are happy to help you at anytime.Now you can contact us through social media.

[f](#) [@](#)

Quick Access

Uva Wellassa University
Privacy Policy
Dog Database

Contact Info

+94766616878
+94713162166
paw.lk.help@gmail.com

Figure 27: Screenshot of the Privacy Policy

7.2 Database Design & Implementation

This is one of the main tasks of the developer to design the databases to store data. Databases are structured to facilitate the storage, retrieval, modification, and deletion of data in conjunction with various data-processing operations. From page 40 - 42 shows the databases screen shots of this project.

Advertisement Database

The screenshot shows the phpMyAdmin interface for the 'advertisement' table in the 'petshop' database. The table has 9 rows of data. The columns are: AddId, Category, Title, Details, Location, Price, Contact, Image, SellerId, IsApproved, and IsDeleted. The data is as follows:

AddId	Category	Title	Details	Location	Price	Contact	Image	SellerId	IsApproved	IsDeleted
1	Accessories	Leather dog collar	The certificate of registration is valid for 5 years...	Nuwaraeliya	150	0713224567	3.jpg	28	true	0
2	medicines	Medicines and vitamins	The certificate of registration is valid for 5 years...	Galle	300	0713224567	4.jpg	28	true	0
3	pets	Pet shop	The certificate of registration is valid for 5 years...	Rathnapura	120	0713224567	7.jpg	28	true	0
4	medicines	Medicines and vitamins	The certificate of registration is valid for 5 years...	Badulla	300	0713224567	8.jpg	28	true	0
5	Food items		Food is usually of plant, animal or fungal origin,...	Wellimada	300	0711292927	6e7f257dfb5078aef67197352ed0020a.jpg	29	true	0
6	Accessories	Accessories	The domestic dog is a domesticated descendant of...	Nuwara	200	0713224567	cat2.jpg	28	false	0
7	Accessories	Accessories	The first time you open Google Translate you'll b	wellimada	200	0711292927	cat1.jpg	28	false	0
8										
9										

Figure 28: Screenshot of the Advertisement Database

The screenshot shows the phpMyAdmin interface for the 'admin' table in the 'petshop' database. The table has columns: ID, FirstName, LastName, Email, Password, LastLogin, UserRole, and IsDeleted. There are 5 rows of data:

ID	FirstName	LastName	Email	Password	LastLogin	UserRole	IsDeleted
1	Yuresh	Tharushika	yuresht@gmail.com	9d4e1e23bd5b727046a9e3b4b7db57bd8d6ee684	0000-00-00 00:00:00	Admin	0
2	Sachini	Imasha	sachini@gmail.com	9d4e1e23bd5b727046a9e3b4b7db57bd8d6ee684	2021-08-14 19:10:24	Admin	0
3	Rajitha	Sandeera	rajithas@gmail.com	9d4e1e23bd5b727046a9e3b4b7db57bd8d6ee684	0000-00-00 00:00:00	Admin	0
4	Chathura	Jeewantha	chathuraj@gmail.com	9d4e1e23bd5b727046a9e3b4b7db57bd8d6ee684	0000-00-00 00:00:00	Admin	0
5	Dasun	Shanaka	dasuns@gmail.com	9d4e1e23bd5b727046a9e3b4b7db57bd8d6ee684	0000-00-00 00:00:00		0

Figure 29: Screenshot of the Admin Database

The screenshot shows the phpMyAdmin interface for the 'seller' table in the 'petshop' database. The table has columns: ID, FirstName, LastName, Email, Location, Password, UserRole, VerificationCode, IsActive, and IsDeleted. There are 3 rows of data:

ID	FirstName	LastName	Email	Location	Password	UserRole	VerificationCode	IsActive	IsDeleted
23	chathuranga	sandeera	rajithasandeerachathuranga@gmail.com	badulle	\$2y\$10\$Miw8UivT3hw8JpDKyIDBebx1r72vT	user	c31843a546db18d642ffb3cc14bf72450ad487	1	0
28	yuresh	tharushika	rsckumara28@gmail.com	coloba	c31843a546db18d642ffb3cc14bf72450ad487	user	c31843a546db18d642ffb3cc14bf72450ad487	1	0
29	Rajitha	sandeera	rajithasck@gmail.com	ettampitiya	c31843a546db18d642ffb3cc14bf72450ad487	user	c31843a546db18d642ffb3cc14bf72450ad487	1	0

Figure 30: Screenshot of the Seller Database

The screenshot shows the phpMyAdmin interface for the 'rating' table in the 'petshop' database. The table has columns: Id, Email, Rate, and SellerId. The data is as follows:

Id	Email	Rate	SellerId
1	rsckumara28@gmail.com	4	10
61	rajithasck@gmail.com	1	10
62	yuresh@gmail.com	4	10
63	rsckumara28@gmail.com	4	2
64	rajithasck@gmail.com	4	10
65	rajithasck@gmail.com	4	2
70	rsckumara28@gmail.com	4	28

Figure 31: Screenshot of the Rating Database

CHAPTER 8: Testing & Evaluation

Software testing is a process of running with intent of finding errors in software. Software testing assures the quality of software and represents final review of other phases of software like specification, design, code generation etc. In our project we used agile approach as our methodology. So we used a software testing practice that follows the principles of agile software development called Agile Testing. Agile testing process is a continuous process rather than being sequential. The testing begins at the start of the project and there is ongoing integration between testing and development, therefore errors can be fixed in the middle of the project. In this approach, every iteration has its own testing phase. The regression tests can be run every time new functions are released.

8.1 Testing Methodologies

8.1.1 Unit Testing

Unit testing aims to verify each part of the software by isolating it and then perform tests to demonstrate that each individual component is correct in terms of fulfilling requirements and the desired functionality. Unit testing is a way of testing the smallest piece of code referred to as a unit that can be logically isolated in a system. A unit is the smallest testable part of any software that has one or more inputs and a single output. Each unit is tested to validate that the software performs as desired. Unit testing is mainly focused on the functional correctness of standalone modules. Unit testing should focus on testing the functionality of objects or methods.

In our project, we have tested each component of the application individually. As the components were built up testing was carried out simultaneously, tracking out each and every kind of input and checking the corresponding output until component is working correctly. The functionality of the components was also tested as separate units.

We executed each functions using valid and invalid data and we verified the following:

- The expected results occur when valid data is used.
- The appropriated error / warning messages are displayed when invalid data is used.
- Each business rule is properly applied.

In the Login function it has been tested that when a user enter correct email address and password and when a user enter wrong email address or password.

The profiles of the admin and sellers were individually checked by ensuring that display only the relevant information depending on the user and user role.

The test of post ad was done by displaying a message whether the order was placed successfully or not, it was also checked whether the data is correctly entered into the database.

Users can add review and the as soon as a user adds a review it is updated in the review page. It has been checked to see if the whole page refreshes or a partial page update happens when a user writes a review.

User can filter ads using locations and the as soon as filter location it is updated in the homepage. It has been checked to see if the whole page refreshes when a user filter ad.

Data is entered into the databases manually and using forms in PHP pages to ensure the data is inserted to the correct tables of the database.

8.1.2 Integration testing

Integration testing aims to test different parts of the system in combination in order to assess if they work correctly together. By testing the units in groups, any faults in the way they interact together can be identified. It focuses on the construction and design of the software.

In our project we ensured database access methods and processes functions properly and without data corruption. We verified access to all databases in our project and we verified simultaneous record read accesses. Also we verified correct retrieval of update of databases data.

The login system was combined with the user profiles and admin profile with session handling and its correct functioning was ensured by testing it for different combinations of email addresses and password for different user roles.

8.1.3 System testing

The next level of testing is system testing. All the components of the software are tested as a whole in order to ensure that the overall product meets the requirements specified. In our project, we created a complete version of the system by integrating components of the system and then test the system for its correct functioning.

All the components of the system were combined together to create the complete version of the system and all the functions were tested and verified after combining the system as a whole system. System testing verified that the correct data is transferred to and from the database to the system.

8.1.4 Acceptance testing

Finally, acceptance testing is the level in the software testing process where a product is given the green light or not. The aim of this type of testing is to evaluate whether the system complies with the end-user requirements and if it is ready for deployment. As the last phase of the testing process, following system testing, acceptance testing determines whether a given software is acceptable for delivery or not. . In a more agile approach, acceptance testing can be carried out as often as every 2-3 weeks, as a part of the sprint demo.

CHAPTER 8: Future Plan

- Work on enhancing the user interface by adding more user interactive features.
- Integrating the new system into the business
- Identify the areas of the system for further development
- Troubleshoots after launching the system

CHAPTER 9: Project Plan

Task	Time(Weeks)																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Introductory session & Identify topic	■																
Requirements gathering & defining the scope		■															
Create proposal			■	■													
proposal submission & proposal presentation					■	■	■										
Requirements analysis & specification						■	■	■									
Create an ER, Use case, Class Diagrams								■	■	■							
Database design									■	■	■	■					
Interface design										■	■	■					
Progress presentation											■	■					
Interface testing											■	■	■				
System development phase											■	■	■	■			
Phase testing											■	■	■	■			
Reach for the end of the system											■	■	■	■	■		
Final testing											■	■	■	■	■		
System verification & validation											■	■	■	■	■		
Final report submission											■	■	■	■	■		
Documentation																	
Final Presentation																	

References

Books

- Sommerville I., 2011 Software Engineering, 9th Edition, Addison Wesley
- Bondari, B. (2010). WordPress 2.9 E-commerce : Build a Proficient Online Store to Sell Products and Services.

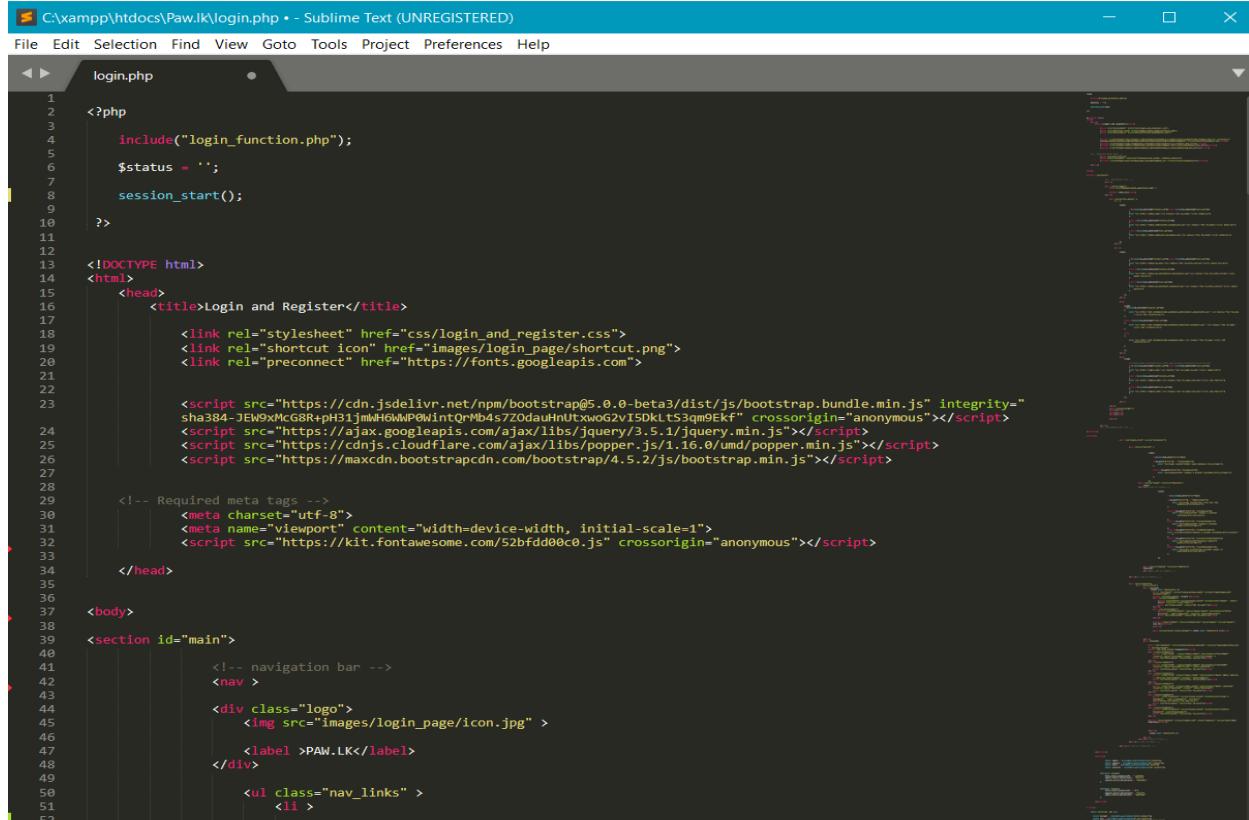
Websites

- Refsnes Data (1998) W3Schools. Available at: <https://www.w3schools.com/> (Accessed 10 April 2021).
- Wikimedia Foundation (2001) Wikipedia. Available at <https://en.m.wikipedia.org/wiki/Wikipedia> (Accessed 01 April 2021).
- Envato Tuts+(2020) How to Create a Classified Ads Website with WordPress and infinity. Available: https://www.youtube.com/watch?v=BrnGk_UOvs (Accessed 22 April 2021).
- WP Cupid Blog-wordPress Tutorial (2019) How to Start A Pet Blog. Available at: <https://www.youtube.com/watch?v=OSDQBLn6JRo> (Accessed 22 April 2021).
- Atwood, J. and Sapolsky, J. (2008) Available at: <https://stackoverflow.com/> (Accessed 22 April 2021).

Appendix

Appendix A

User Registration & Login

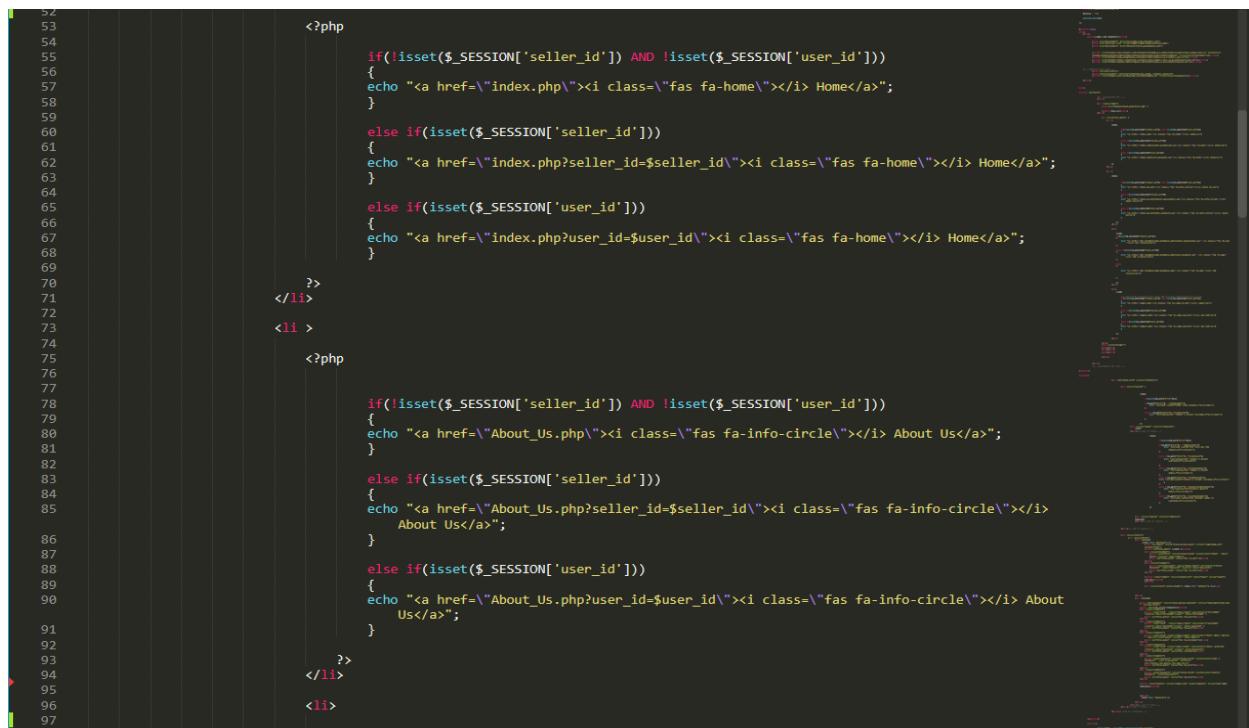


C:\xampp\htdocs\Paw.LK\login.php • Sublime Text (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
```

login.php

```
1 <?php
2     include("login_function.php");
3
4     $status = '';
5
6     session_start();
7
8 ?>
9
10
11
12
13 <!DOCTYPE html>
14 <html>
15     <head>
16         <title>Login and Register</title>
17
18         <link rel="stylesheet" href="css/login_and_register.css">
19         <link rel="shortcut icon" href="images/login_page/shortcut.png">
20         <link rel="preconnect" href="https://fonts.googleapis.com">
21
22
23         <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta3/dist/js/bootstrap.bundle.min.js" integrity="sha384-JEW9xMcGRR+pH31jmWH6WP0wintQrMb4s7ZodauInUtxoog2vI5DkLts3qm9Ekf" crossorigin="anonymous"></script>
24         <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
25         <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
26         <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
27
28
29         <!-- Required meta tags -->
30         <meta charset="utf-8">
31         <meta name="viewport" content="width=device-width, initial-scale=1">
32         <script src="https://kit.fontawesome.com/52bfdd00c0.js" crossorigin="anonymous"></script>
33
34     </head>
35
36
37 <body>
38
39     <section id="main">
40
41         <!-- navigation bar -->
42         <nav >
43
44             <div class="logo">
45                 
46
47                 <label >PAW.LK</label>
48             </div>
49
50             <ul class="nav_links" >
51                 <li >
```



```
52
53
54
55     <?php
56
57         if(!isset($_SESSION['seller_id']) AND !isset($_SESSION['user_id']))
58         {
59             echo "<a href=\"index.php\"><i class=\"fas fa-home\"></i> Home</a>";
60         }
61
62         else if(isset($_SESSION['seller_id']))
63         {
64             echo "<a href=\"index.php?seller_id=$seller_id\"><i class=\"fas fa-home\"></i> Home</a>";
65         }
66
67         else if(isset($_SESSION['user_id']))
68         {
69             echo "<a href=\"index.php?user_id=$user_id\"><i class=\"fas fa-home\"></i> Home</a>";
70         }
71
72     </li>
73
74     <li >
75
76         <?php
77
78             if(!isset($_SESSION['seller_id']) AND !isset($_SESSION['user_id']))
79             {
80                 echo "<a href=\"About_Us.php\"><i class=\"fas fa-info-circle\"></i> About Us</a>";
81             }
82
83             else if(isset($_SESSION['seller_id']))
84             {
85                 echo "<a href=\"About_Us.php?seller_id=$seller_id\"><i class=\"fas fa-info-circle\"></i> About Us</a>";
86             }
87
88             else if(isset($_SESSION['user_id']))
89             {
90                 echo "<a href=\"About_Us.php?user_id=$user_id\"><i class=\"fas fa-info-circle\"></i> About Us</a>";
91             }
92
93
94     </li>
95
96     <li >
```

```

97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195

```

<?php
if(isset(\$_SESSION['seller_id']))
{
echo "<i class=\"fas fa-dog\"> Pet Archive";
}
else if(isset(\$_SESSION['user_id']))
{
echo "<i class=\"fas fa-dog\"> Pet Archive";
}
else
{
echo "<i class=\"fas fa-dog\"> Pet Archive";
}
?>

<?php
//if(!isset(\$_SESSION['user_id']) || !isset(\$_SESSION['seller_id']))
if(isset(\$_SESSION['seller_id']) AND !isset(\$_SESSION['user_id']))
{
echo "<i class=\"fas fa-sign-in-alt\"> Login";
}
else if(isset(\$_SESSION['seller_id']))
{
echo "<i class=\"fas fa-sign-out-alt\"> Log Out";
}
else if(isset(\$_SESSION['user_id']))
{
echo "<i class=\"fas fa-sign-out-alt\"> Log Out";
}
?>

<div class="burger">
<div></div>
<div></div>
<div></div> </div>
</nav>
<!-- navigation bar end --></p>

```

148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195

```

<section> <div id="login-form" class="container">
<div class="switch" >
<?php
if(isset(\$_GET["error"])))
if(\$_GET["error"]=="wronglogin"){
echo "<script> alert('Enter valid Details.')</script>";
}
else if(\$_GET["error"]=="invaliduid"){
echo "<script> alert(' Choose a proper username.!')</script>";
}
?>
<div class="login" onClick="tab1();">Login </div> <!--end of login -->
<?php
if(isset(\$_GET["error"])))
if(\$_GET["error"]=="emptyinput"){
echo "<script> alert('Plz fill all the details.!')</script>";
}
else if(\$_GET['error']=="invaliduid"){
echo "<script> alert(' Choose a proper username.!')</script>";
}
else if(\$_GET['error']=="invalidEmail"){
echo "<script> alert(' Choose a proper Email.!')</script>";
}
else if(\$_GET['error']=="stamtfailed"){
echo "<script> alert('Choose a proper username.!')</script>";
}
else if(\$_GET['error']=="passwordsdontmatch"){
echo "<script> alert('password doesn't match.!')</script>";
}
else if(\$_GET['error']=="usernameTaken"){
echo "<script> alert('Use another Email or username.!')</script>";
}
?>

```

197             <div class="signup" onClick="tab2();"> Register </div>
198         <!--end of signup -->
199     </div><!--end of switch -->
200     <div class="outer">
201         <div class="form">
202             <div id="page">
203                 <?php echo "$status"; ?>
204                 <form id="login" class="input-group-login" action="loginpage.php"
205                     method="POST">
206                     <label id="head_label" >LogIn </label>
207                     <div class="element">
208                         <input type="text" class="input-field" placeholder="Email" name="email"
209                             required name="email">
210                         <span id="form_icons" class="fas fa-user"></span>
211                     </div>
212                     <div class="element">
213                         <input type="Password" class="input-field" placeholder="Enter
214                             Password" name="password" required name="password">
215                         <span id="form_icons" class="fas fa-lock"></span>
216                     </div>
217                     <button type="submit" class="submit-btn" name="login" value="login">
218                         Log In</button>
219                     </form>
220                 <div class="alert alert-danger"> <?php echo "$status"; ?></div>
221             </div>
222             <div id="page">
223                 <form id="register" class="input-group-register" action="regisoperation.php"
224                     method="post">
225                     <label id="head_label">Register</label>
226                     <div class="element">
227                         <input type="text" class="input-field" placeholder="FirstName"
228                             required name="FirstName" value="" name="FirstName" >
229                         <span id="form_icons" class="fas fa-user"></span>
230                     </div>
231                     <div class="element">
232                         <input type="text" class="input-field" placeholder="LastName"
233                             required name="LastName" value="" name="LastName" >
234                         <span id="form_icons" class="fas fa-user"></span>
235                     </div>
236                     <div class="element">
237                         <input type="text" class="input-field" placeholder="Enter Email Address
238                             " required name="email" value="" name="email" >
239                         <span id="form_icons" class="fas fa-envelope"></span>
240                     </div>
241                     <div class="element">
242                         <input type="text" class="input-field" placeholder="Enter Location"
243                             required name="location" value="" name="location" >
244                         <span id="form_icons" class="fas fa-home"></span>
245                     </div>
246             </div>
247         </div>
248     </div>
249     <div class="element">
250         <input type="Password" class="input-field" placeholder="Enter a
251             Password" name="password" pattern="^(?=.*[a-z])(?=.*[A-Z]).{8},"
252             <span id="form_icons" class="fas fa-lock"></span>
253     </div>
254     <div class="element">
255         <input type="Password" class="input-field" placeholder="Confirm
256             Password" name="cpassword">
257         <span id="form_icons" class="fas fa-lock"></span>
258     </div>
259     <button type="submit" class="submit-btn" name="register" value="logi">Get
260         Started</button>
261     </form>
262     <?php echo "$status"; ?>
263 </div><!--end of form -->
264 </div><!--end of outer -->
265 </div><!--end of container -->
266 </section>
267 <script>
268     const login = document.querySelector(".login");
269     const signup = document.querySelector(".signup");
270     const form = document.querySelector(".form");
271     const switchs = document.querySelector(".switch");
272
273     function tab2(){
274         form.style.marginLeft = "-100%";
275         login.style.background = "none";
276         signup.style.background = "#0C090A";
277     }
278
279     function tab1(){
280         form.style.marginLeft = "0";
281         signup.style.background = "none";
282         login.style.background = "#0C090A";
283     }
284 </script>
285

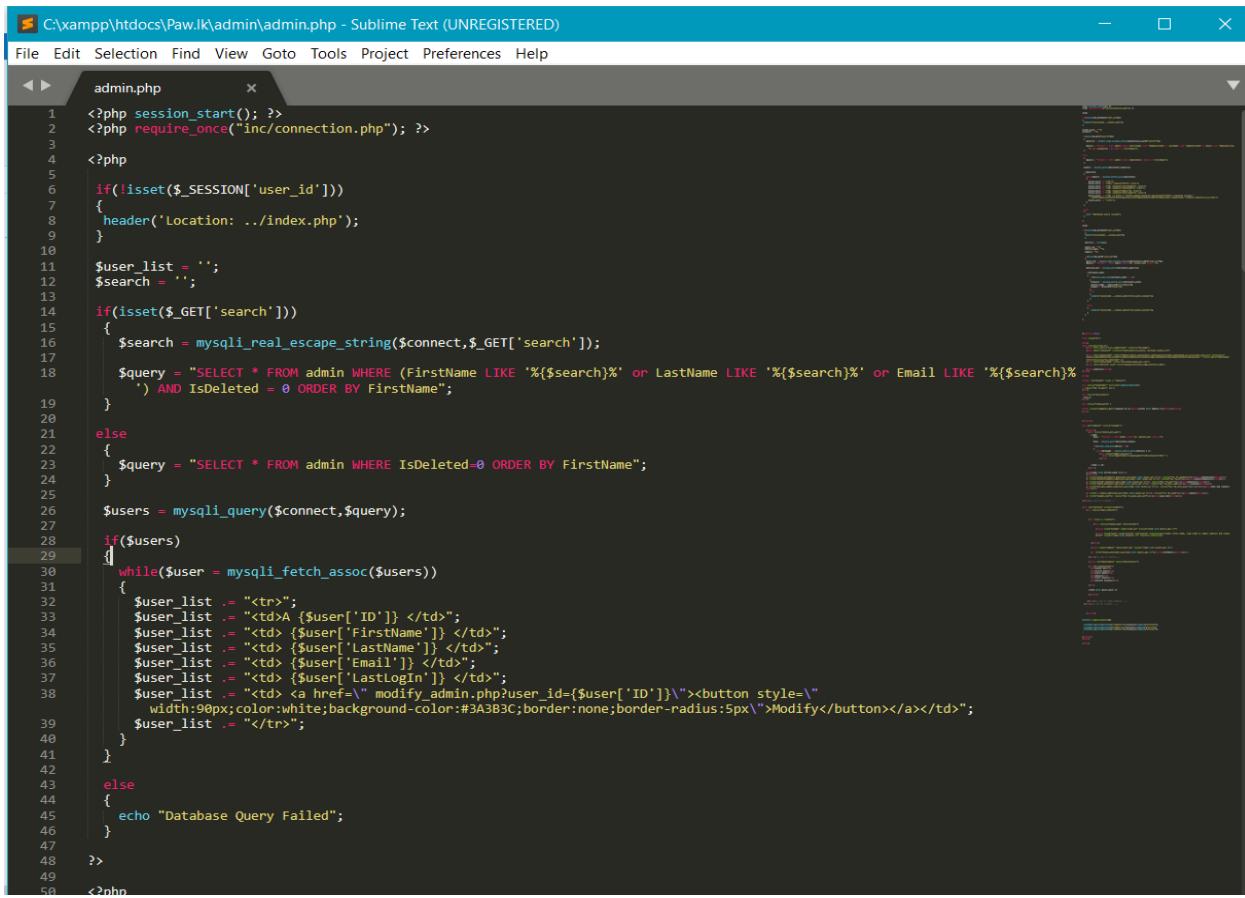
```

```

286 <script>
287     const navSlide =() =>{
288
289         const burger = document.querySelector('.burger');
290         const nav = document.querySelector('.nav_links');
291         const navLinks = document.querySelectorAll('.nav_links li');
292
293         burger.addEventListener('click',() =>{
294
295             nav.classList.toggle('nav-active');
296
297             navLinks.forEach((Link, index) =>{
298                 if(Link.style.animation){
299                     link.style.animation = '';
300                 }else {
301                     link.style.animation = `navLinkFade 0.5s ease forwards ${index / 7 + 0.3 }s`;
302                 }
303
304             });
305         });
306     };
307     navSlide();
308
309     </script>
310
311 </body>
312
313 </html>
314

```

Appendix B



The screenshot shows the Sublime Text editor with the file "admin.php" open. The code is a PHP script for managing user administration. It includes session handling, header redirection, database queries for searching and listing users, and a form for updating user details.

```
1 <?php session_start(); ?>
2 <?php require_once("inc/connection.php"); ?>
3
4 <?php
5 if(!isset($_SESSION['user_id']))
6 {
7     header('Location: ../index.php');
8 }
9
10 $user_list = '';
11 $search = '';
12
13 if(isset($_GET['search']))
14 {
15     $search = mysqli_real_escape_string($connect,$_GET['search']);
16
17     $query = "SELECT * FROM admin WHERE (FirstName LIKE '%{$search}%' OR LastName LIKE '%{$search}%' OR Email LIKE '%{$search}%'
18         ) AND IsDeleted = 0 ORDER BY FirstName";
19 }
20
21 else
22 {
23     $query = "SELECT * FROM admin WHERE IsDeleted=0 ORDER BY FirstName";
24 }
25
26 $users = mysqli_query($connect,$query);
27
28 if($users)
29 {
30     while($user = mysqli_fetch_assoc($users))
31     {
32         $user_list .= "<tr>";
33         $user_list .= "<td>" . $user['ID'] . "</td>";
34         $user_list .= "<td>" . $user['FirstName'] . "</td>";
35         $user_list .= "<td>" . $user['LastName'] . "</td>";
36         $user_list .= "<td>" . $user['Email'] . "</td>";
37         $user_list .= "<td>" . $user['LastLogin'] . "</td>";
38         $user_list .= "<td> !\[\]\(4ca1d71fbef58b322c662d476c938ffa\_img.jpg\)

The second part of the screenshot shows the continuation of the "admin.php" file. It handles the update logic for a specific user identified by the "user\_id" parameter in the URL. It retrieves the user's current details from the database, checks if the update was successful, and then either updates the user's information or displays an error message.


```

Appendix C

The image shows three vertically stacked code editor panes from the Sublime Text application. Each pane contains a portion of a PHP script, likely for managing sellers in a database. The code includes session handling, database queries using MySQLi, and HTML output for displaying user lists and individual seller profiles.

```
File Edit Selection Find View Goto Tools Project Preferences Help
```

```
seller.php
```

```
1 <?php session_start(); ?>
2 <?php require_once("inc/connection.php"); ?>
3 <?php
4 if(!isset($_SESSION['user_id']))
5 {
6     header('Location: ../index.php');
7 }
8
9 $errors = array();
10
11 $user_id = '';
12 $first_name = '';
13 $email = '';
14
15 if(isset($_GET['user_id']))
16 {
17     $user_id = mysqli_real_escape_string($connect,$_GET['user_id']);
18     $query = "SELECT * FROM admin WHERE ID= {$user_id} LIMIT 1";
19     $result_set = mysqli_query($connect,$query);
20
21     if($result_set)
22     {
23         if(mysqli_num_rows($result_set) == 1)
24         {
25             $result = mysqli_fetch_assoc($result_set);
26             $first_name = $result['FirstName'];
27             $email = $result['Email'];
28         }
29         else
30         {
31             header("Location: ../index.php?error=query_failed");
32         }
33     }
34     else
35     {
36         header("Location: ../index.php?error=query_failed");
37     }
38 }
39 else
40 {
41     header("Location: ../index.php?error=query_failed");
42 }
43 ?>
```

```
37 <?php
38 if(isset($_SESSION['user_id'])) {
39     header('Location: ../index.php');
40     $user_list = '';
41     $search = '';
42
43 //Search the User
44 if(isset($_GET['search']))
45 {
46     $search = mysqli_real_escape_string($connect,$_GET['search']);
47
48     $query = "SELECT * FROM seller WHERE (FirstName LIKE '%{$search}%' OR LastName LIKE '%{$search}%' OR Email LIKE '%{$search}%') AND IsDeleted = 0 ORDER BY FirstName";
49 }
50 else
51 {
52     $query = "SELECT * FROM seller WHERE IsDeleted = 0 ORDER BY FirstName";
53 }
54
55 $users = mysqli_query($connect,$query);
56
57 if($users) {
58     while($user = mysqli_fetch_assoc($users)) {
59         $user_list .= "<tr>";
60         $user_list .= "<td> {$user['ID']} </td>";
61         $user_list .= "<td> {$user['FirstName']} </td>";
62         $user_list .= "<td> {$user['LastName']} </td>";
63         $user_list .= "<td> {$user['Email']} </td>";
64         $user_list .= "<td> {$user['Location']} </td>";
65         $user_list .= "<td> {$user['LastLogin']} </td>";
66         $user_list .= "<td> <a href='seller_profile_view.php?seller_id={$user['ID']}'>View</a><button style='width:90px;color:white;background-color:#3A3B3C;border:none;border-radius:5px;' type='button' onclick='return confirm(\"Are you sure?\")'>Delete</button></td>";
67         $user_list .= "</tr>";
68     }
69 }
70 else {
71     echo "Database Query Failed!";
72 }
73
74
75
76
77
78
79 ?>
```

```
81 <?php
82 if(isset($_SESSION['user_id']))
83 {
84     if(!isset($_SESSION['user_id']))
85     {
86         header('Location: ../index.php');
87     }
88     $errors = array();
89     $first_name = '';
90     $email = '';
91
92     if(isset($_GET['user_id']))
93     {
94         $user_id = mysqli_real_escape_string($connect,$_GET['user_id']);
95         $query = "SELECT * FROM admin WHERE ID= {$user_id} LIMIT 1";
96
97         $result_set = mysqli_query($connect,$query);
98
99     if($result_set)
100     {
101         if(mysqli_num_rows($result_set) == 1)
102         {
103             $result = mysqli_fetch_assoc($result_set);
104             $first_name = $result['FirstName'];
105             $email = $result['Email'];
106         }
107         else
108         {
109             header("Location: ../index.php?error=query_failed");
110         }
111     }
112     else
113     {
114         header("Location: ../index.php?error=query_failed");
115     }
116 }
117 ?>
```