

Pet Care Adoption Mobile App

Project Team

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0.1 Project Title and Introduction

0.1.1 Project Title

Pet Care and Adoption Web App

0.1.2 Introduction

This app is an innovative digital platform that revolutionizes pet care by seamlessly integrating adoption services, AI-powered health assistance, and a comprehensive marketplace. Designed for pet owners, adopters, and animal lovers, the application simplifies pet adoption, provides intelligent health recommendations, and creates a supportive community where users can share knowledge, purchase pet necessities, and connect with fellow pet enthusiasts through advanced technological solutions.

0.2 User Stories

0.2.1 US001: User Sign-Up

- **Story ID:** US001
- **Story Title:** User Registration
- **User Story:** As a visitor, I want to sign up and create a profile so that I can access app features.
- **Acceptance Criteria:** User can register using email, set password, and username.
- **Importance:** High
- **Estimate:** 13 hours
- **Type:** Feature

0.2.2 US002: Secure User Login

- **Story ID:** US002
- **Story Title:** Secure Account Access
- **User Story:** As a user, I want to log in securely using email so that I can access my account.
- **Acceptance Criteria:** User can log in using email and password.
- **Importance:** High
- **Estimate:** 14 hours
- **Type:** Feature

0.2.3 US004: Pet Listing for Adoption

- **Story ID:** US004
- **Story Title:** Create Pet Adoption Listing
- **User Story:** As a pet owner, I want to list my pet for adoption with images, age, breed, and health details so that potential adopters can view them.
- **Acceptance Criteria:** Owner can upload images, health status, description, and age of pets.
- **Importance:** High
- **Estimate:** 26 hours
- **Type:** Feature

0.2.4 US005: Pet Search and Filtering

- **Story ID:** US005
- **Story Title:** Advanced Pet Search
- **User Story:** As a pet adopter, I want to browse available pets with filters (breed, age, size, etc.) so that I can find the right pet.
- **Acceptance Criteria:** Pet adopter can filter data using buttons and a search bar.

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- **Importance:** High
 - **Estimate:** 25 hours
 - **Type:** Feature

0.2.5 US006: Pet Detailed Information

- **Story ID:** US006
- **Story Title:** Pet Profile Details
- **User Story:** As a pet adopter, I want to read about each pet's description and health records so that I can make an informed decision.
- **Acceptance Criteria:** Pet adopter can see comprehensive pet description, health records, and other features.
- **Importance:** High
- **Estimate:** 19 hours
- **Type:** Feature

0.2.6 US007: Adoption Application

- **Story ID:** US007
- **Story Title:** Adoption Application Submission
- **User Story:** As a pet adopter, I want to apply for adoption of a pet so that I can provide a loving home to the pet.
- **Acceptance Criteria:** Adopter can fill a detailed application form for adoption.
- **Importance:** High
- **Estimate:** 21 hours
- **Type:** Feature

0.2.7 US008: Mark Pet as Adopted

- **Story ID:** US008
- **Story Title:** Adoption Status Update
- **User Story:** As a pet owner, I want to mark my pet as "adopted" so that I don't receive further inquiries.
- **Acceptance Criteria:** Pet owner can change status easily by clicking a button.
- **Importance:** Medium
- **Estimate:** 10 hours
- **Type:** Feature

0.2.8 US009: Pet Supply Browsing

- **Story ID:** US009
- **Story Title:** Product Search and Browse
- **User Story:** As a pet owner, I want to browse and search for pet supplies (food, accessories, medicines, etc.) so that I can easily find what I need.
- **Acceptance Criteria:** Pet owner can browse and search pet supplies using a search bar.
- **Importance:** High
- **Estimate:** 8 hours
- **Type:** Feature

0.2.9 US010: Product Details Viewing

- **Story ID:** US010
- **Story Title:** Detailed Product Information
- **User Story:** As a pet owner, I want to view product details, including images, descriptions, and customer reviews, so that I can make an informed purchase.
- **Acceptance Criteria:** Pet owner can see product images, product details, and descriptions.

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- **Importance:** High
 - **Estimate:** 12 hours
 - **Type:** Feature

0.2.10 US011: Shopping Cart Management

- **Story ID:** US011
- **Story Title:** Add to Cart Functionality
- **User Story:** As a pet owner, I want to add products to my shopping cart so that I can purchase multiple items at once.
- **Acceptance Criteria:** Pet owner can easily add products to the cart and see the cart summary.
- **Importance:** High
- **Estimate:** 14 hours
- **Type:** Feature

0.2.11 US012: Secure Payment Processing

- **Story ID:** US012
- **Story Title:** Multiple Payment Options
- **User Story:** As a pet owner, I want to securely pay for my purchases using credit/debit cards, PayPal, or cash-on-delivery so that I can complete my order.
- **Acceptance Criteria:** Pet owner can securely pay the bill using multiple payment methods.
- **Importance:** High
- **Estimate:** 22 hours
- **Type:** Feature

0.2.12 US013: Inventory Management

- **Story ID:** US013
- **Story Title:** Product Inventory Control
- **User Story:** As an admin, I want to manage inventory (add, remove, update products) so that the store remains updated.
- **Acceptance Criteria:** Admin can add, remove, and update new products using buttons.
- **Importance:** High
- **Estimate:** 14 hours
- **Type:** Feature

0.2.13 US014: Treatment Recommendations

- **Story ID:** US015
- **Story Title:** Home Treatment Guidance
- **User Story:** As a pet owner, I want to receive a list of recommended actions or treatments for common illnesses so that I can treat minor issues at home.
- **Acceptance Criteria:** Pet owner can enter symptoms and see detailed treatment instructions on the screen.
- **Importance:** High
- **Estimate:** 15 hours
- **Type:** Feature

0.2.14 US015: Pet Care Tips Sharing

- **Story ID:** US016
- **Story Title:** Community Knowledge Base
- **User Story:** As a user, I want to see pet care tips so that I can help other pet owners.
- **Acceptance Criteria:** User can give prompts to the AI reflex agent and see results on the screen.

- **Importance:** Medium

- **Estimate:** 9 hours

- **Type:** Feature

0.3 Sprint 1

0.3.1 Module Name

User Authentication & Profile Management

0.3.2 User Stories for Sprint 1

- **US001:** User Sign-Up
- **US002:** Secure User Login

0.3.3 Sub User Stories

0.3.4 US001: User Sign-Up

0.3.4.1 Story ID: US001.1

- **Story Title:** Email Registration
- **User Story:** As a visitor, I want to sign up using my email account so that I can register easily.
- **Acceptance Criteria:** User can enter a valid email address and receive confirmation.
- **Importance:** High
- **Estimate:** 5 hours
- **Type:** Feature

0.3.4.2 Story ID: US001.2

- **Story Title:** Password Creation
- **User Story:** As a visitor, I want to set my password to secure my account for authorized access.
- **Acceptance Criteria:** User can create a password that meets security requirements.
- **Importance:** High

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- **Estimate:** 3 hours
 - **Type:** Feature

0.3.4.3 Story ID: US001.3

- **Story Title:** Password Confirmation
- **User Story:** As a visitor, I want to confirm my password to avoid typing errors so that I can make my password valid.
- **Acceptance Criteria:** System validates that password and confirmation password match.
- **Importance:** Medium
- **Estimate:** 2 hours
- **Type:** Feature

0.3.4.4 Story ID: US001.4

- **Story Title:** Username Creation
- **User Story:** As a visitor, I want to enter my username so that I can personalize my profile.
- **Acceptance Criteria:** User can set a unique username during registration.
- **Importance:** Medium
- **Estimate:** 3 hours
- **Type:** Feature

0.3.5 US002: Secure User Login

0.3.5.1 Story ID: US002.1

- **Story Title:** Email Login
- **User Story:** As a user, I want to enter my email so that I can log in using my email account.
- **Acceptance Criteria:** User can log in using email.

- **Importance:** High

- **Estimate:** 6 hours

- **Type:** Feature

0.3.5.2 Story ID: US002.2

- **Story Title:** Password Login

- **User Story:** As a user, I want to enter my password so that I can secure my account from unauthorized access.

- **Acceptance Criteria:** User can enter strong password and hide it.

- **Importance:** High

- **Estimate:** 8 hours

- **Type:** Feature

0.4 Sprint 2

0.4.1 Module Name

Pet Adoption Management

0.4.2 User Stories for Sprint 2

- **US004:** Pet Listing for Adoption

- **US005:** Pet Search and Filtering

- **US006:** Pet Detailed Information

- **US007:** Adoption Application

0.5 Sub User Stories

0.5.1 US004: Pet Listing for Adoption

0.5.1.1 Story ID: US004.1

- **Story Title:** Enter Owner Details
- **User Story:** As a pet owner, I want to enter my personal information so that I can be contacted by interested adopters.
- **Acceptance Criteria:** Owner can enter name, contact number, and address in the pet listing form.
- **Importance:** High
- **Estimate:** 12 hours
- **Type:** Feature

0.5.1.2 Story ID: US004.2

- **Story Title:** Enter Pet Details
- **User Story:** As a pet owner, I want to enter my pet's information so that adopters can understand the pet's characteristics.
- **Acceptance Criteria:** Form includes fields for pet name, age, gender, type, and price.
- **Importance:** High
- **Estimate:** 9 hours
- **Type:** Feature

0.5.1.3 Story ID: US004.3

- **Story Title:** Upload Pet Image
- **User Story:** As a pet owner, I want to upload an image of my pet so that adopters can see how it looks.
- **Acceptance Criteria:** Owner can upload one image in common formats (JPG, PNG).

- **Importance:** Medium
- **Estimate:** 4 hours
- **Type:** Feature

0.5.2 US005: Pet Search and Filtering

0.5.2.1 Story ID: US005.1

- **Story Title:** Search Pet by Age
- **User Story:** As a user, I want to search pets by their age so that I can find pets that suit my preference.
- **Acceptance Criteria:** User can enter an age and view matching pet listings.
- **Importance:** Medium
- **Estimate:** 8 hours
- **Type:** Feature

0.5.2.2 Story ID: US005.2

- **Story Title:** Search Pet by Type
- **User Story:** As a user, I want to search pets by their type (e.g., dog, cat) so that I can easily find the type I'm interested in.
- **Acceptance Criteria:** User can enter a type and view matching pet listings.
- **Importance:** High
- **Estimate:** 6 hours
- **Type:** Feature

0.5.2.3 Story ID: US005.3

- **Story Title:** Search Pet by Gender
- **User Story:** As a user, I want to filter pets by gender so that I can find male or female pets as per my choice.

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- **Acceptance Criteria:** User can enter gender (male or female) and view matching pet listings.
 - **Importance:** Medium
 - **Estimate:** 6 hours
 - **Type:** Feature

0.5.2.4 Story ID: US005.4

- **Story Title:** Search Pet by Price
- **User Story:** As a user, I want to search pets by price so that I can adopt pets within my budget.
- **Acceptance Criteria:** User can filter pets costing less than a specified price.
- **Importance:** High
- **Estimate:** 6 hours
- **Type:** Feature

0.5.3 US006: Pet Detailed Information

0.5.3.1 Story ID: US006.1

- **Story Title:** View Pet Image
- **User Story:** As a user, I want to see an image of the pet so that I can visualize how it looks before adopting.
- **Acceptance Criteria:** A clear image of the pet is displayed on the pet detail screen.
- **Importance:** High
- **Estimate:** 10 hours
- **Type:** Feature

0.5.3.2 Story ID: US006.2

- **Story Title:** View Pet Information
- **User Story:** As a user, I want to see detailed information about the pet so that I can learn about its type, age, and price.
- **Acceptance Criteria:** The pet detail page displays type, age, gender, price and contact info.
- **Importance:** High
- **Estimate:** 9 hours
- **Type:** Feature

0.5.4 US007: Adoption Application

0.5.4.1 Story ID: US007.1

- **Story Title:** Enter Adopter Information
- **User Story:** As a user, I want to enter my personal details so that the adoption application can be processed.
- **Acceptance Criteria:** User can enter name, contact info, and email.
- **Importance:** High
- **Estimate:** 7 hours
- **Type:** Feature

0.5.4.2 Story ID: US007.2

- **Story Title:** Select Pet by ID
- **User Story:** As a user, I want to enter a pet ID so that I can apply for a specific pet I'm interested in.
- **Acceptance Criteria:** Pet ID field is present and validated against available pets.
- **Importance:** Medium
- **Estimate:** 5 hours
- **Type:** Feature

0.5.4.3 Story ID: US007.3

- **Story Title:** Provide Home Information
- **User Story:** As a user, I want to share my home information details so that the organization can assess pet compatibility.
- **Acceptance Criteria:** User can enter number of children, home type, home status and pet history.
- **Importance:** Medium
- **Estimate:** 6 hours
- **Type:** Feature

0.5.4.4 Story ID: US007.4

- **Story Title:** State Reason for Adoption
- **User Story:** As a user, I want to explain why I want to adopt a pet so that my intent can be better understood.
- **Acceptance Criteria:** A text field is available where the user can type the reason for adoption.
- **Importance:** Low
- **Estimate:** 3 hour
- **Type:** Feature

0.6 Sprint 3

0.6.1 Module Name

Pet Adoption Management

0.6.2 User Stories for Sprint 3

- **US008:** Mark Pet as Adopted
- **US009:** Pet Supply Browsing
- **US010:** Product Details Viewing
- **US011:** Shopping Cart Management
- **US012:** Payment Processing
- **US013:** Inventory Management
- **US014:** Treatment Recommendations
- **US015:** Pet Care Tips Sharing

0.6.3 Sub User Stories

0.6.4 US008: Mark Pet as Adopted

0.6.4.1 Story ID: US008.1

- **Story Title:** Accept Application
- **User Story:** As a pet owner, I want to accept adoption applications so that pets can be matched with suitable adopters.
- **Acceptance Criteria:** pet owner can review and accept applications from potential adopters.
- **Importance:** High
- **Estimate:** 6 hours
- **Type:** Feature

0.6.4.2 Story ID: US008.2

- **Story Title:** Change Pet Status
- **User Story:** As an pet owner, I want to update a pet's status to "adopted" so that it no longer appears in available listings.
- **Acceptance Criteria:** Pet status can be changed from "available" to "adopted" after successful adoption.
- **Importance:** High
- **Estimate:** 4 hours
- **Type:** Feature

0.6.5 US009: Pet Supply Browsing

0.6.5.1 Story ID: US009.1

- **Story Title:** Browse by Pet Type
- **User Story:** As a user, I want to browse supplies by pet type so that I can find appropriate products for my specific pet.
- **Acceptance Criteria:** User can filter supplies by pet type (e.g., supplies for cats, dogs, etc.).
- **Importance:** High
- **Estimate:** 8 hours
- **Type:** Feature

0.6.6 US010: Product Details Viewing

0.6.6.1 Story ID: US010.1

- **Story Title:** View Product Information
- **User Story:** As a user, I want to view product information so that I can make informed purchasing decisions.
- **Acceptance Criteria:** Product details page displays essential information like name, price, and specifications.

- **Importance:** High
- **Estimate:** 5 hours
- **Type:** Feature

0.6.6.2 Story ID: US010.2

- **Story Title:** View Product Description
- **User Story:** As a user, I want to read detailed product descriptions so that I can understand the product benefits and features.
- **Acceptance Criteria:** Detailed product description is displayed on the product page.
- **Importance:** Medium
- **Estimate:** 3 hours
- **Type:** Feature

0.6.6.3 Story ID: US010.3

- **Story Title:** View Product Image
- **User Story:** As a user, I want to see image of products so that I can visualize them before purchasing.
- **Acceptance Criteria:** Clear product image is displayed on the product detail page.
- **Importance:** High
- **Estimate:** 4 hours
- **Type:** Feature

0.6.7 US011: Shopping Cart Management

0.6.7.1 Story ID: US011.1

- **Story Title:** Add Item to Cart
- **User Story:** As a user, I want to add items to my shopping cart so that I can purchase multiple items at once.

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- **Acceptance Criteria:** User can add products to cart with quantity selection.
 - **Importance:** High
 - **Estimate:** 6 hours
 - **Type:** Feature

0.6.7.2 Story ID: US011.2

- **Story Title:** Bill Making
- **User Story:** As a user, I want to see a bill of my selected items so that I can review my purchases before payment.
- **Acceptance Criteria:** Cart page displays itemized bill with product details, quantities, and total cost.
- **Importance:** High
- **Estimate:** 5 hours
- **Type:** Feature

0.6.7.3 Story ID: US011.3

- **Story Title:** Remove Item from Cart
- **User Story:** As a user, I want to remove items from my cart so that I can adjust my purchase before checkout.
- **Acceptance Criteria:** User can remove individual items from the shopping cart.
- **Importance:** Medium
- **Estimate:** 3 hours
- **Type:** Feature

0.6.8 US012: Payment Processing

0.6.8.1 Story ID: US012.1

- **Story Title:** Pay Bill Using Easypaisa

- **User Story:** As a user, I want to pay using Easypaisa so that I can complete my purchase with my preferred payment method.
- **Acceptance Criteria:** Easypaisa payment option is available and processes payments correctly.
- **Importance:** High
- **Estimate:** 10 hours
- **Type:** Feature

0.6.8.2 Story ID: US012.2

- **Story Title:** Pay Bill Using Bank Account
- **User Story:** As a user, I want to pay using my bank account so that I have alternative payment options.
- **Acceptance Criteria:** Bank account payment option is available and processes payments correctly.
- **Importance:** High
- **Estimate:** 12 hours
- **Type:** Feature

0.6.9 US013: Inventory Management

0.6.9.1 Story ID: US013.1

- **Story Title:** Add New Items in Inventory
- **User Story:** As a manager, I want to add new items to the inventory so that users can purchase newly available products.
- **Acceptance Criteria:** manager can add new products with all required details to the inventory.
- **Importance:** High
- **Estimate:** 8 hours
- **Type:** Feature

0.6.9.2 Story ID: US013.2

- **Story Title:** Update Existing Item in Inventory
- **User Story:** As an administrator, I want to update existing inventory items so that product information remains accurate.
- **Acceptance Criteria:** Administrator can edit product details and update inventory quantities.
- **Importance:** Medium
- **Estimate:** 6 hours
- **Type:** Feature

0.6.10 US014: Treatment Recommendations

0.6.10.1 Story ID: US014.1

- **Story Title:** Search by Disease Name
- **User Story:** As a pet owner, I want to search for treatments by disease name so that I can find appropriate medical information.
- **Acceptance Criteria:** User can search treatments using disease names and view matching results.
- **Importance:** High
- **Estimate:** 7 hours
- **Type:** Feature

0.6.10.2 Story ID: US014.2

- **Story Title:** View Disease Solutions
- **User Story:** As a pet owner, I want to see solutions for particular diseases so that I can better care for my pet's health.
- **Acceptance Criteria:** User can view detailed treatment recommendations and solutions for specific diseases.
- **Importance:** High

- **Estimate:** 8 hours
- **Type:** Feature

0.6.11 US015: Pet Care Tips Sharing

0.6.11.1 Story ID: US015.1

- **Story Title:** Search by Pet Type
- **User Story:** As a pet owner, I want to search for care tips by pet type so that I can find relevant information for my specific pet.
- **Acceptance Criteria:** User can filter care tips by pet type and view matching results.
- **Importance:** Medium
- **Estimate:** 5 hours
- **Type:** Feature

0.6.11.2 Story ID: US015.2

- **Story Title:** View Tip Details
- **User Story:** As a pet owner, I want to see all details of a particular tip so that I can fully understand the care recommendation.
- **Acceptance Criteria:** User can access comprehensive information for each care tip including detailed instructions and explanations.
- **Importance:** Medium
- **Estimate:** 4 hours
- **Type:** Feature

0.7 Design

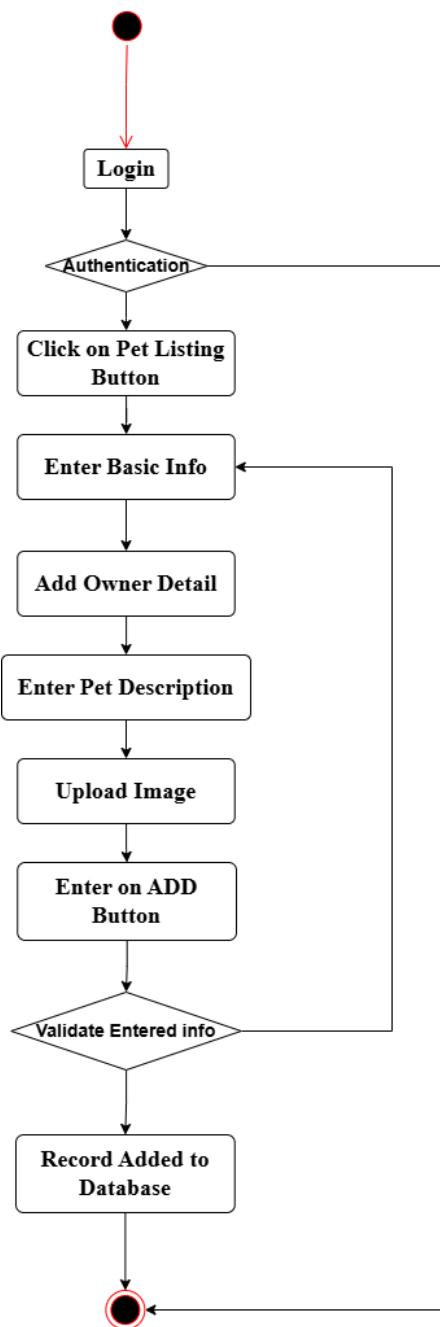


Figure 1: Activity Diagram: Pet Listing Process

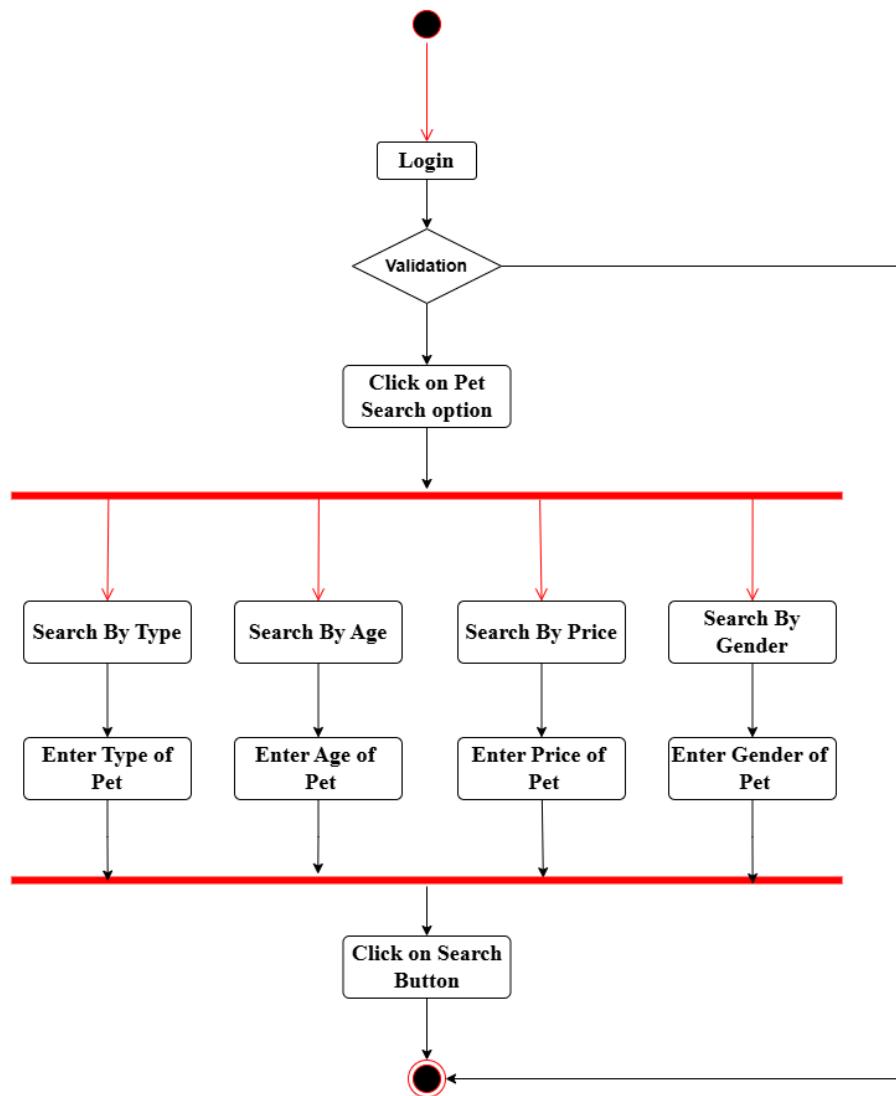


Figure 2: Activity Diagram: Pet Search

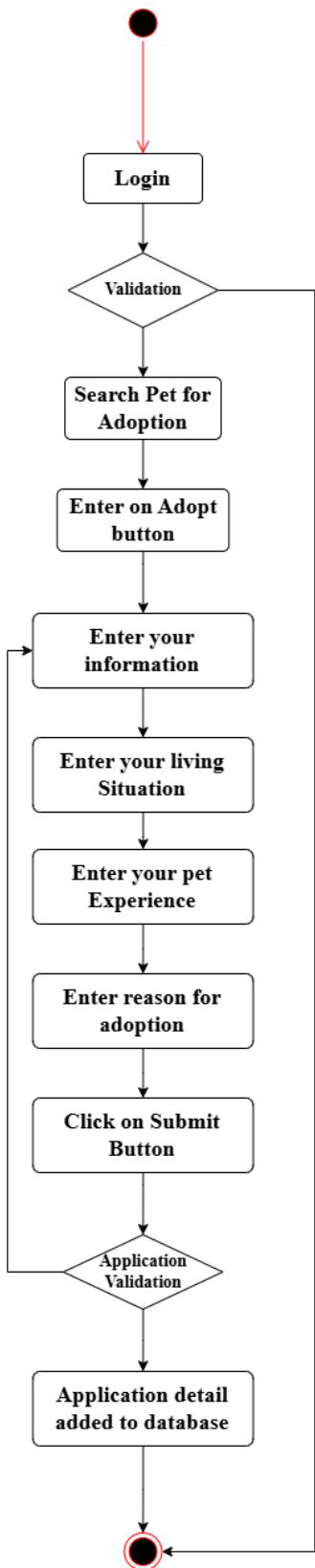


Figure 3: Activity Diagram: Adoption Application Process

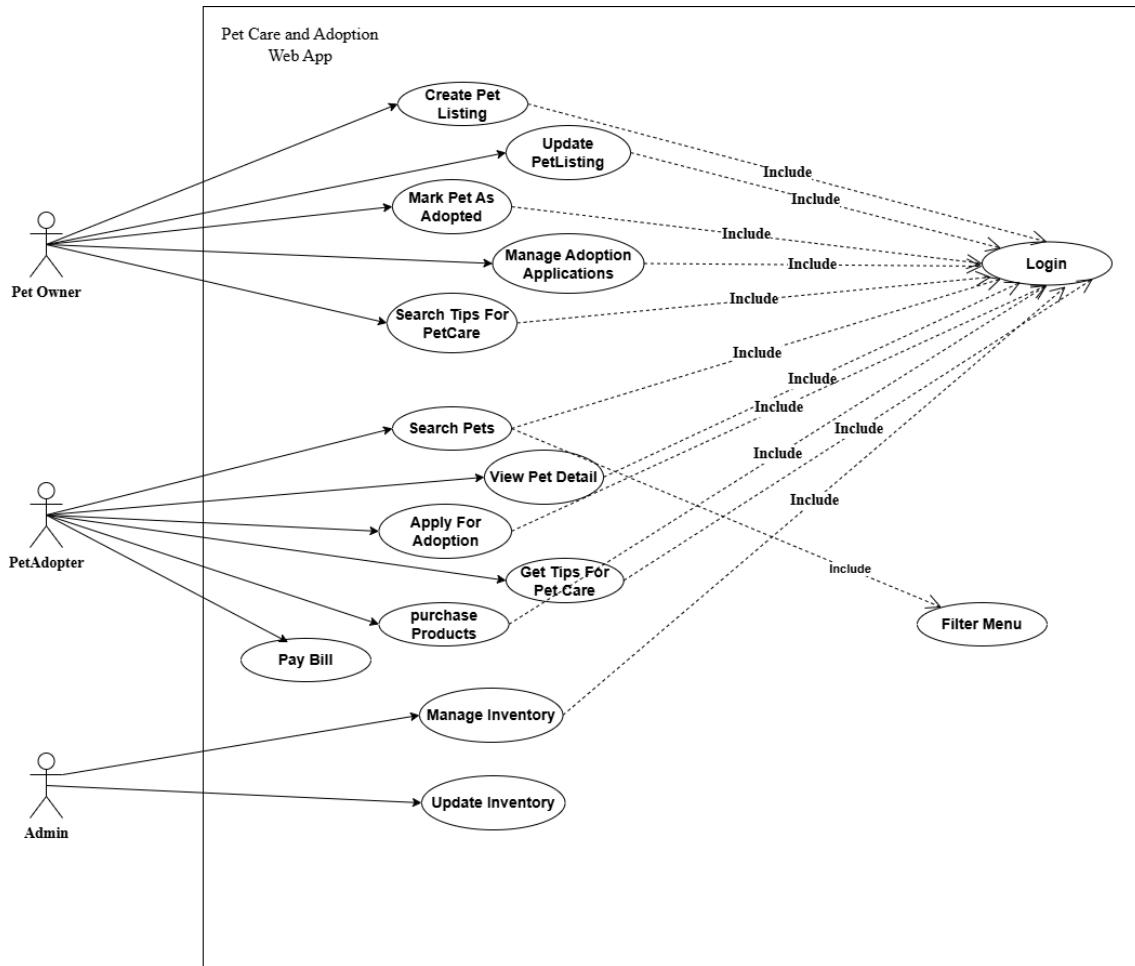


Figure 4: Use Case Diagram

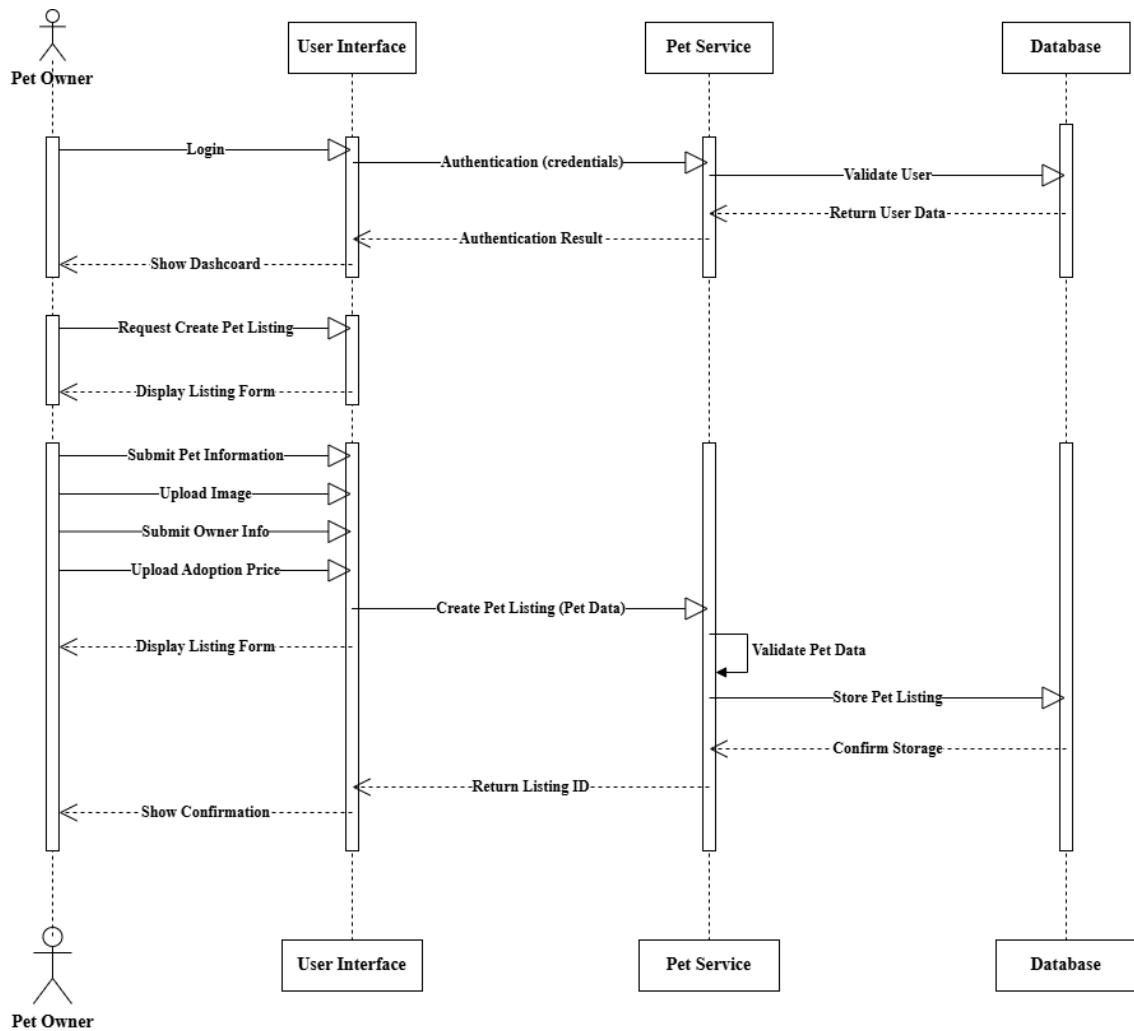


Figure 5: Sequence Diagram: Pet Listing Creation

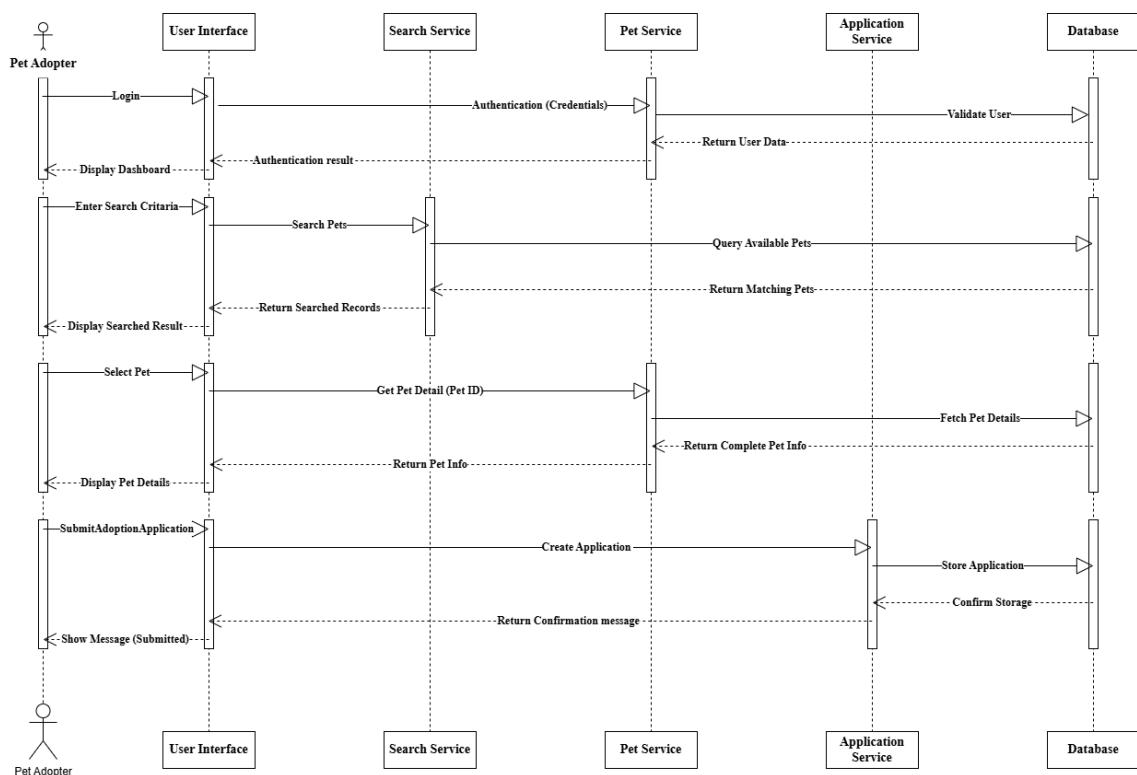


Figure 6: Sequence Diagram: Pet Search And Application

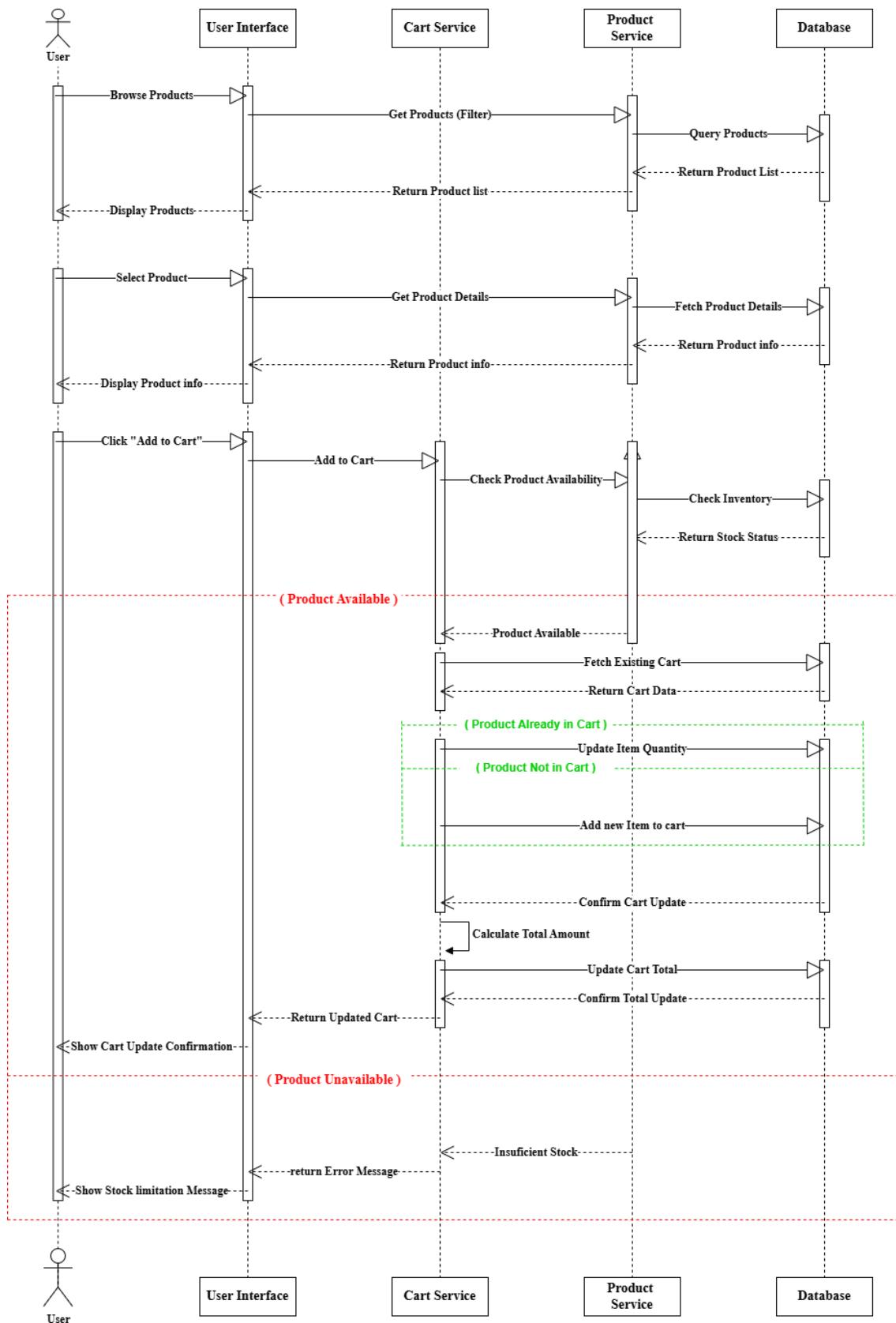


Figure 7: Sequence Diagram: Add Products to cart

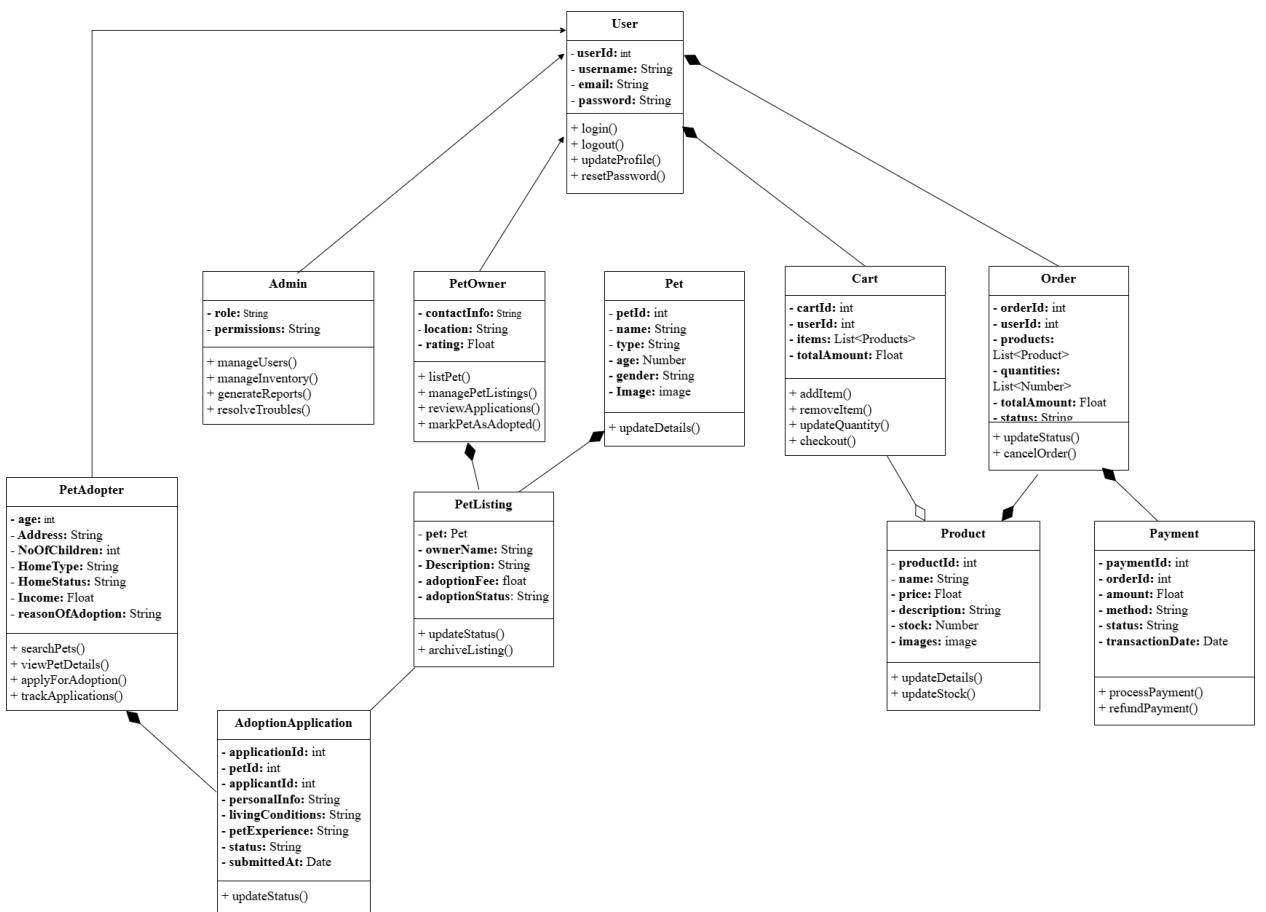


Figure 8: Class Diagram

0.8 Layered Architecture

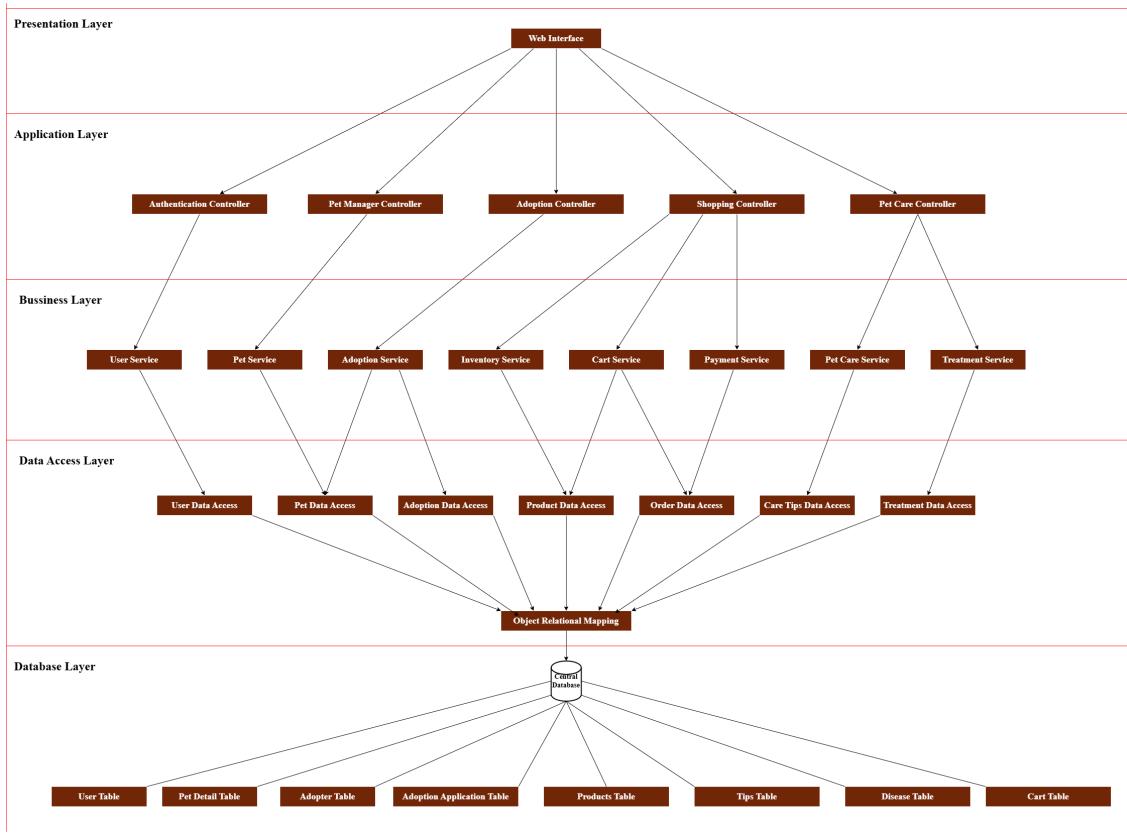
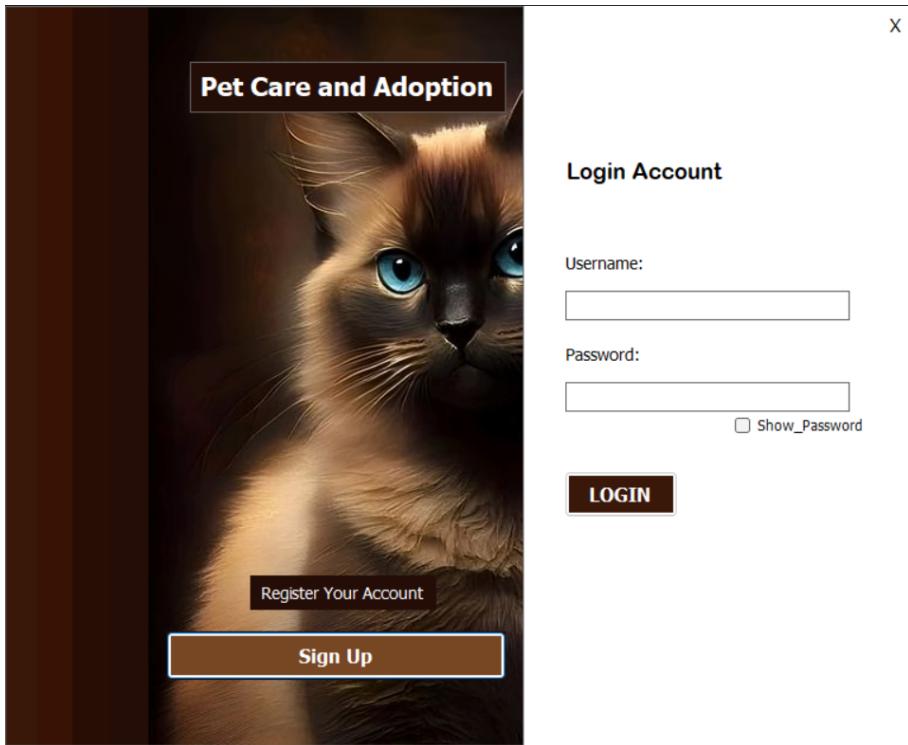
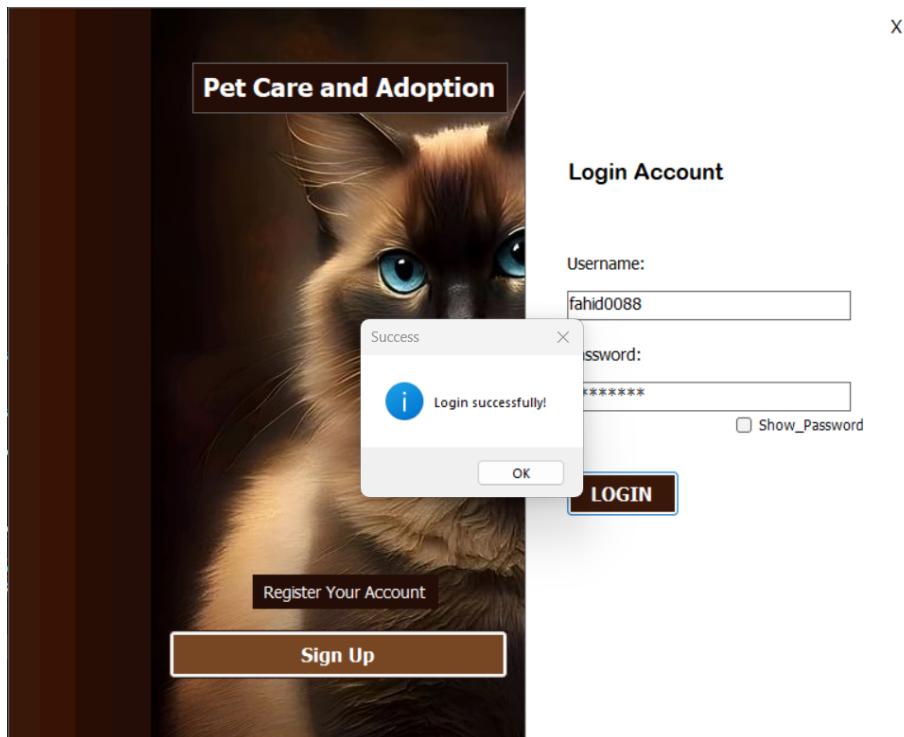
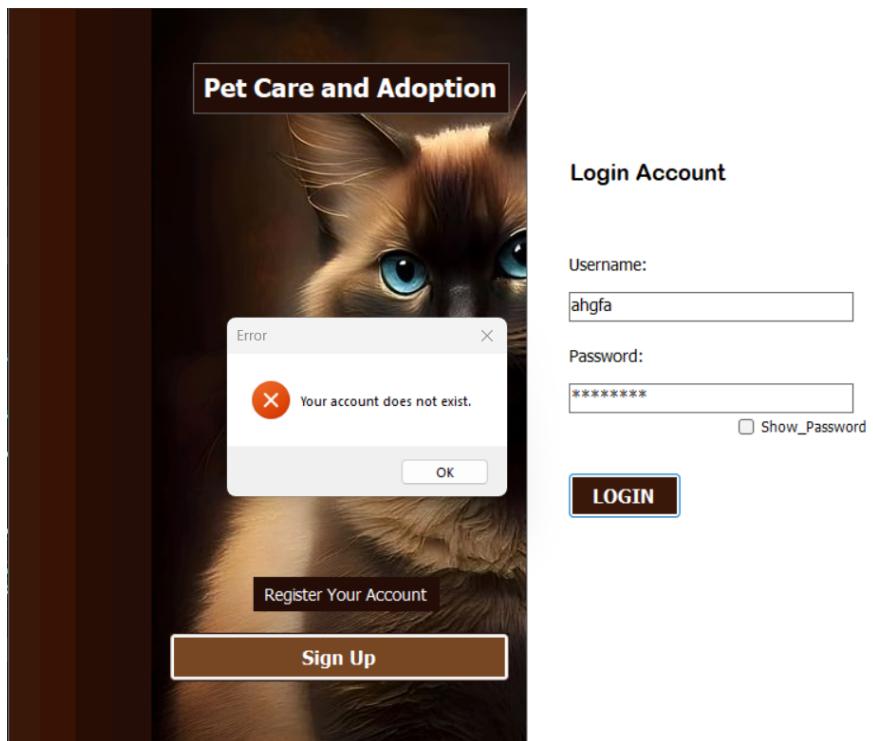
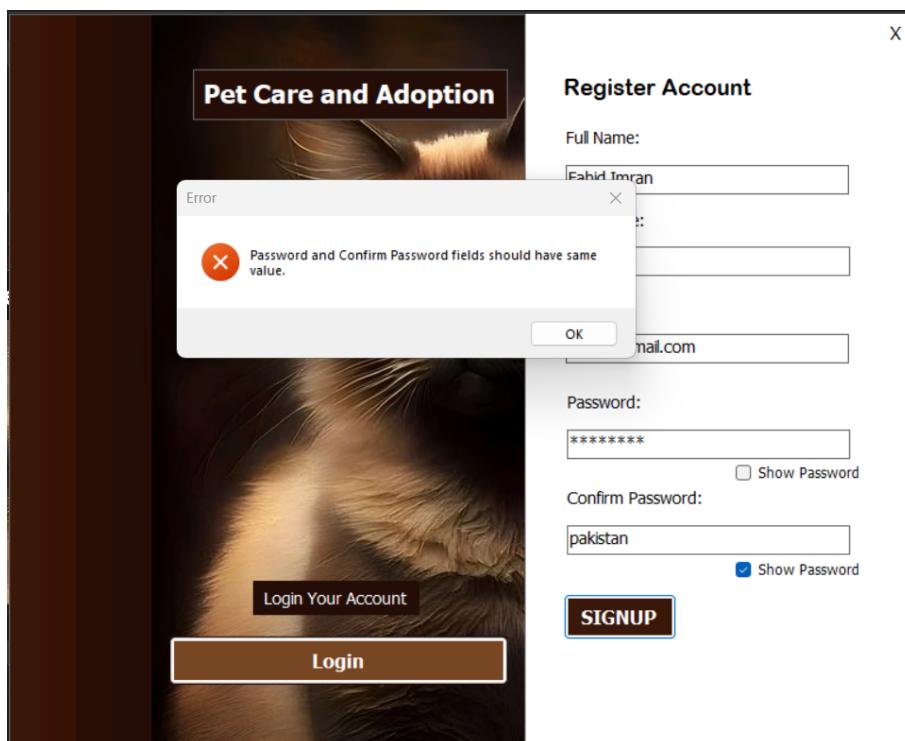
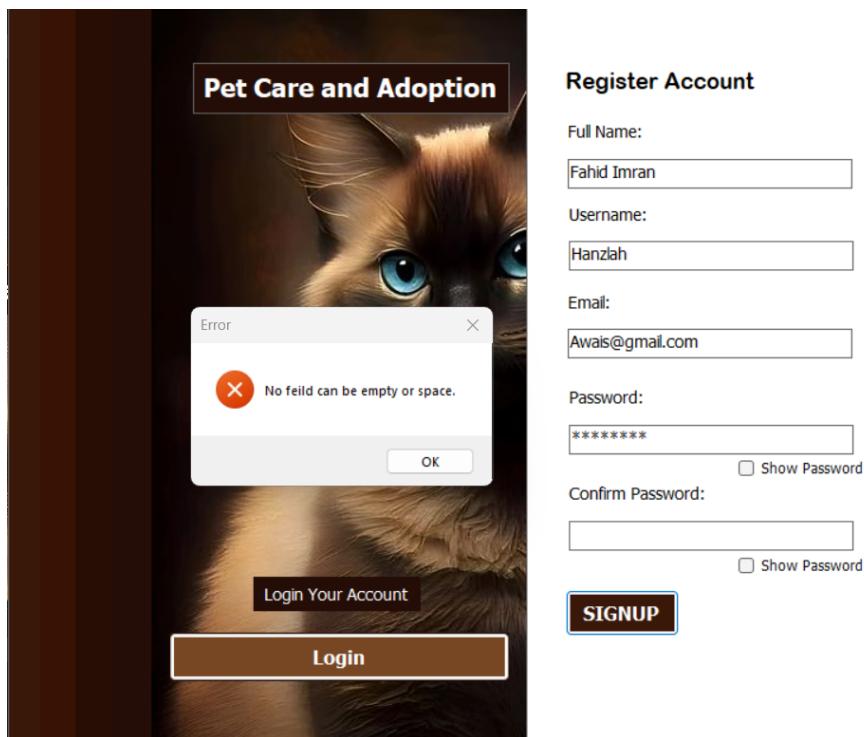


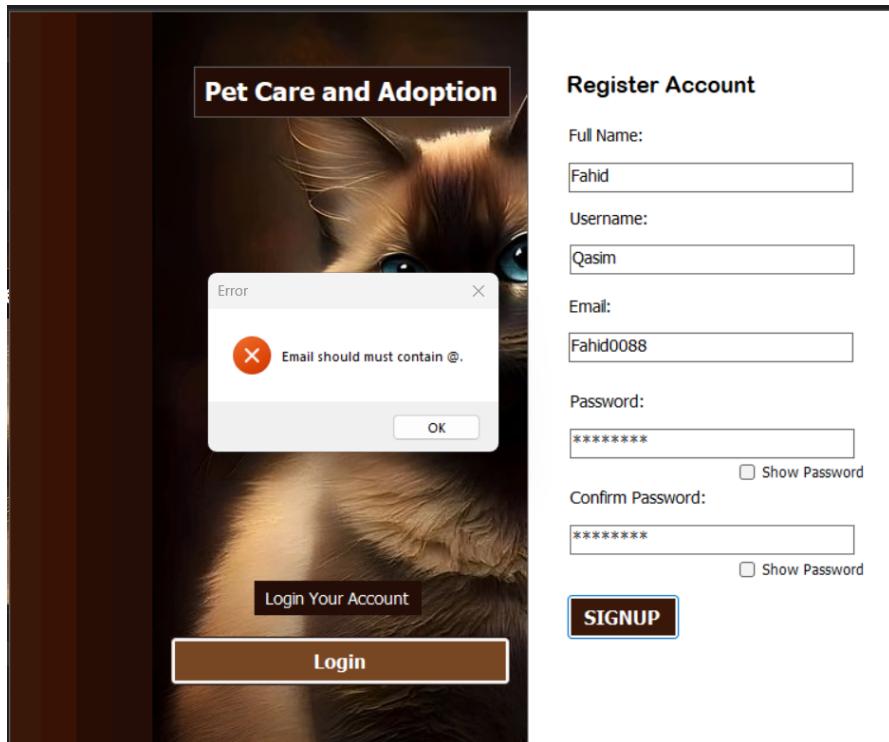
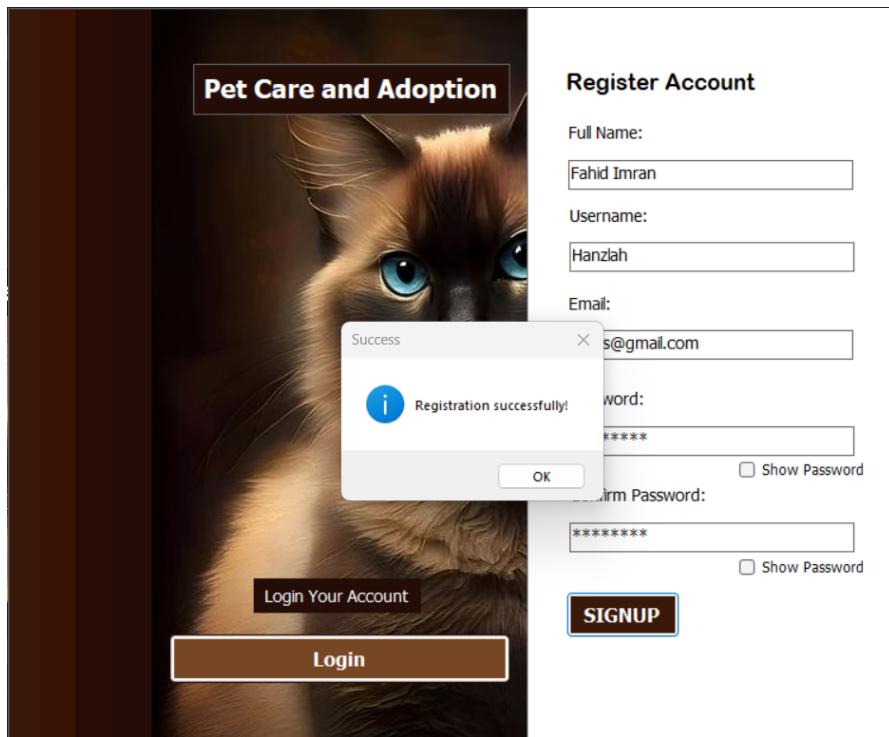
Figure 9: Layered Architecture

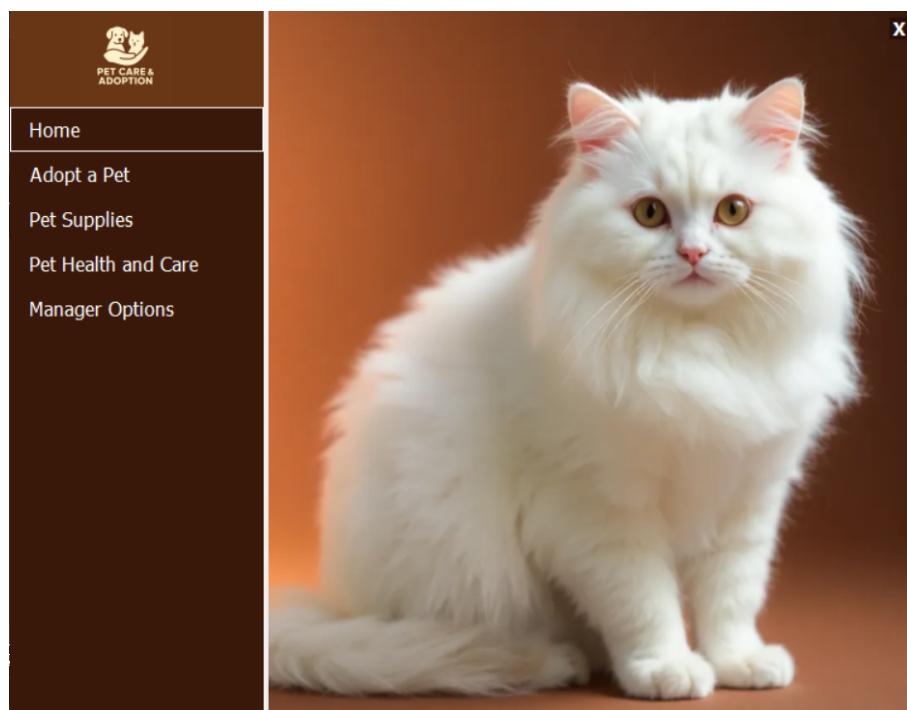
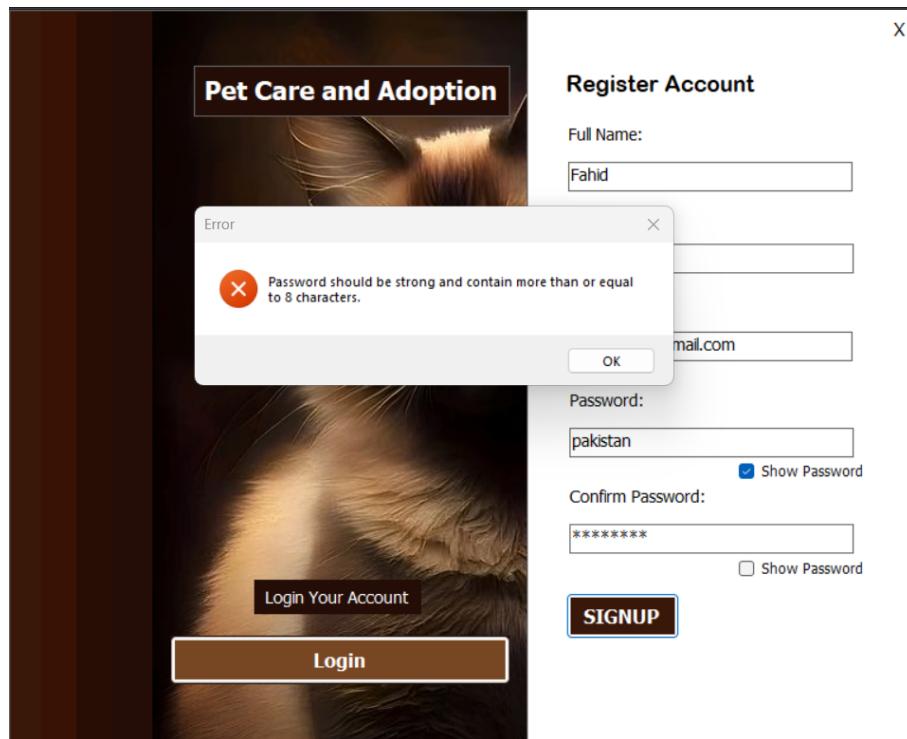
0.9 Implementation Images













PET CARE & ADOPTION

Pet Listing

X

Owner Name:

Pet Type:

Pet Name:

Owner Contact Number:

Adoption Price:

Gender: Pet Age:

Add



Home

X

Search By Type

Search By Age

Search By Price

Search By Gender

PET CARE & ADOPTION

Cat

Search

This is my cutest pet.

Pet ID: 1

Adopt

Name: Kiti Price: \$ 67.40
Type: Cat Age: 1
Contact: 45268 Gender: Female
Description:
this is brown cat.
Pet ID: 3

Adopted

Name: Tommi Price: \$ 56.89
Type: Cat Age: 1
Contact: 45268 Gender: Female
Description:
this is brown cat.

PET CARE & ADOPTION

1

Search

Name: Kiti Price: \$ 67.40
Type: Cat Age: 1
Contact: 45268 Gender: Female
Description:
this is brown cat.
Pet ID: 3

Adopted

The screenshot shows a mobile application for pet care and adoption. At the top, there's a logo for "PET CARE & ADOPTION" featuring a stylized dog and cat. Below the logo, a large yellow circle graphic is visible. The main content area displays a list of pets:

- Pet ID: 1** (Image of a small dog's head):
 - Name:** Tommi **Price:** \$ 56.89
 - Type:** Dog **Age:** 6
 - Contact:** 4252 **Gender:** Male
 - Description:** this is my own pet.
- Pet ID: 2** (Image of a small dog's head):
 - Name:** Kiti **Price:** \$ 67.40

Buttons for "Adopt" and "Adopted" are present next to the first pet's details.

The screenshot shows a mobile application for an adoption application. At the top, there's a logo for "PET CARE & ADOPTION" featuring a stylized dog and cat. The background has a brown color with decorative white flower patterns. The main content area is titled "Adoption Application". The form fields are as follows:

- Your Name:
- Your Age:
- Your Phone Number:
- Your Email Address:
- Your City:
- Your Town:

A "Submit" button is located at the bottom right of the form area.

Qasim Ali Shah, a 56 - year - old resident of Springfield, has submitted an adoption application for a pet. He currently lives in a Apartment that he Rent and resides at Street No. 45, House No. 234, in Gujrat's Qasmi Town area. Qasim Ali Shah has 3 children. The reason of adoption for Qasim Ali Shah is "beacuse I am alone.". His monthly income is \$3.00, ensuring financial stability to care for the pet. His contact details include Phone: 678-6789 and Email: khsyg@gmail.com.His application, submitted on 2/2/2006 12:00:00 AM, is currently under review.If approved, he will be adopting Romio, with Pet ID .

Accepted

Saad, a 56 - year - old resident of Springfield, has submitted an adoption application for a pet. He currently lives in a Apartment that he Rent and resides at Street No. 6, House No. 345, in Gujrat's Saddi ,town area. Saad has 3 children. The reason of adoption for Saad is "this is jakhj g hga faguk ga.". His monthly income is \$3.00, ensuring financial stability to care for the pet. His contact details

Add To Cart

Product Name: jdfdj

Type: dog

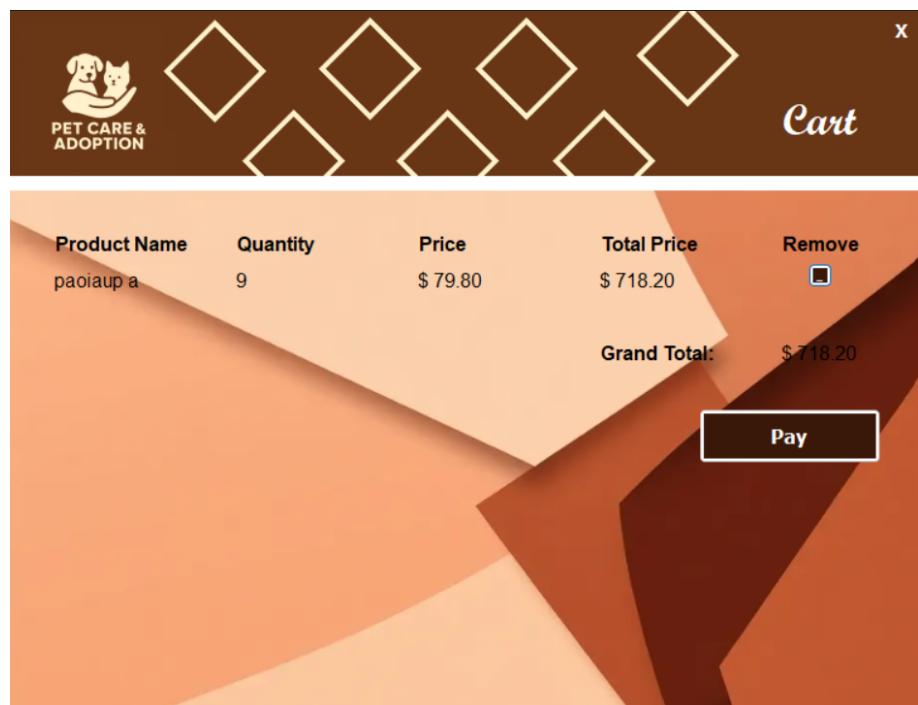
Price: \$ 67.34

Quantity: 2

Product ID: 2

Description:
jhgdjqhgdjw hsgdjs gd sjhdgs dghsdg shd hsgd s

Add To Cart

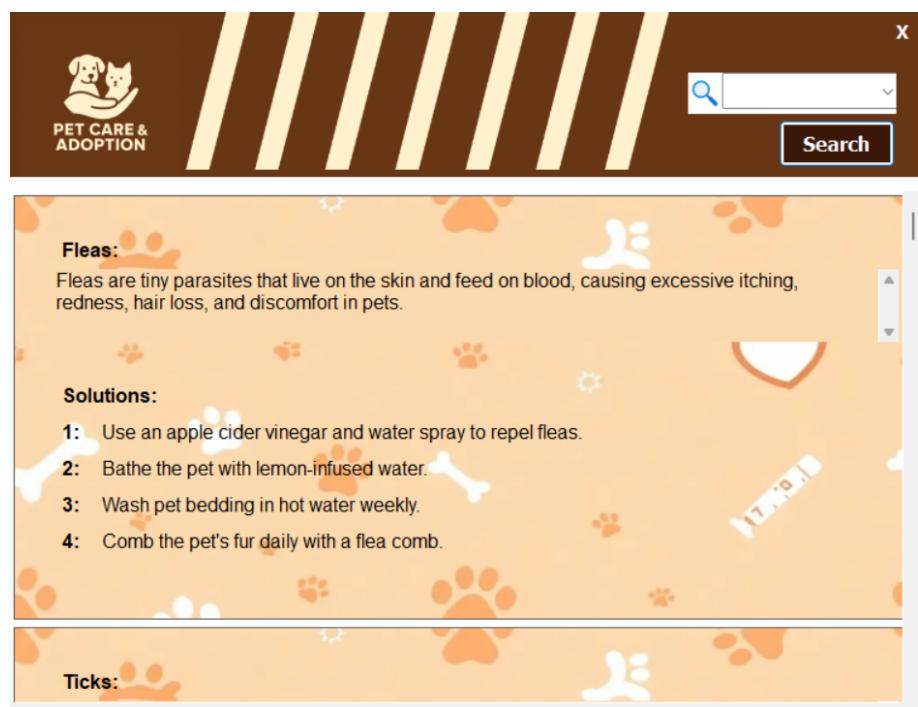


A screenshot of a mobile application interface for "PET CARE & ADOPTION". The top navigation bar is dark brown with white text and icons. It features a logo of a dog and cat, the text "PET CARE & ADOPTION", and a search bar icon. On the right side of the bar are three empty diamond-shaped placeholder boxes and the word "Cart" followed by a close button "X".

The main content area has a light beige background with a large, stylized orange and brown geometric pattern on the left. The pattern consists of overlapping triangles and diamonds. The right side of the content area contains a table with the following data:

Product Name	Quantity	Price	Total Price	Remove
paoiaup a	9	\$ 79.80	\$ 718.20	<input type="button" value="Remove"/>

Below the table, the text "Grand Total: \$ 718.20" is displayed. At the bottom right is a black rectangular button with the word "Pay" in white.



A screenshot of a mobile application interface for "PET CARE & ADOPTION". The top navigation bar is dark brown with white text and icons. It features a logo of a dog and cat, the text "PET CARE & ADOPTION", and a search bar icon. The search bar contains a magnifying glass icon and a dropdown arrow.

The main content area has a light orange background with a decorative pattern of paw prints, bones, and a ruler.

Fleas:
Fleas are tiny parasites that live on the skin and feed on blood, causing excessive itching, redness, hair loss, and discomfort in pets.

Solutions:

- 1: Use an apple cider vinegar and water spray to repel fleas.
- 2: Bathe the pet with lemon-infused water.
- 3: Wash pet bedding in hot water weekly.
- 4: Comb the pet's fur daily with a flea comb.

Ticks:

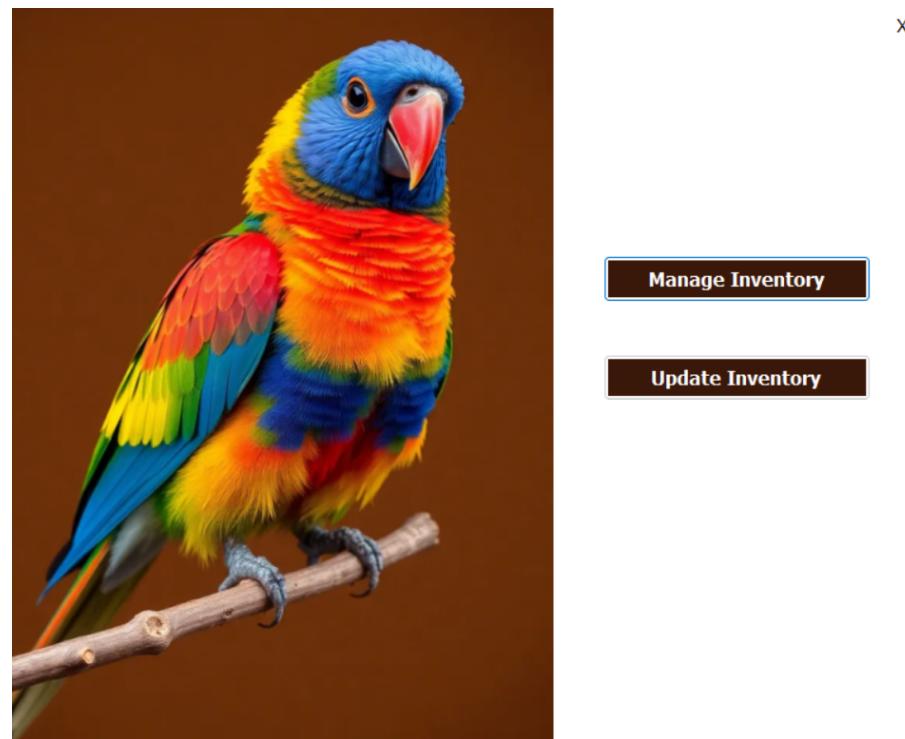
The screenshot shows a web page with a brown header featuring a logo of a dog and cat, the text "PET CARE & ADOPTION", and a search bar. The main content area has a light orange background with paw prints and bones. It contains two sections: one for "House Training Your Dog" and one for "Brushing a Cat's Fur".

House Training Your Dog:
Establish a routine for bathroom breaks, reward positive behavior, and be patient for consistent results.

For: Dog

Brushing a Cat's Fur:
Use a soft-bristle brush and groom your cat regularly to prevent mats and reduce shedding.

For: Cat





Add to Inventory

X

Product Name:

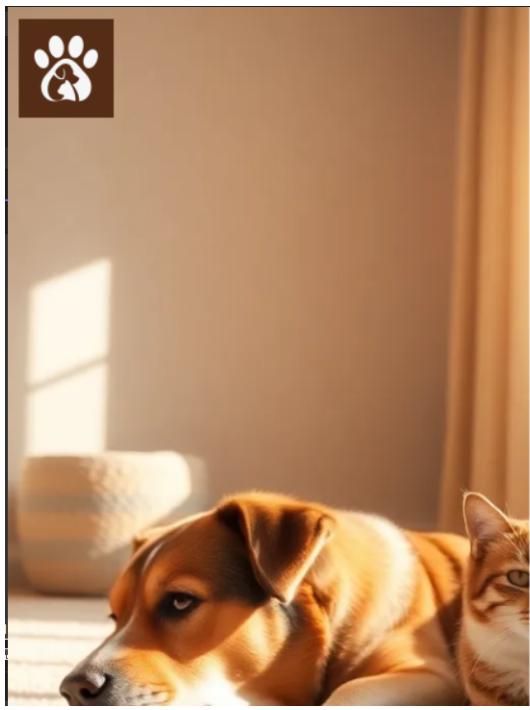
For Which Pet Type:

Price:

Quantity

Description:

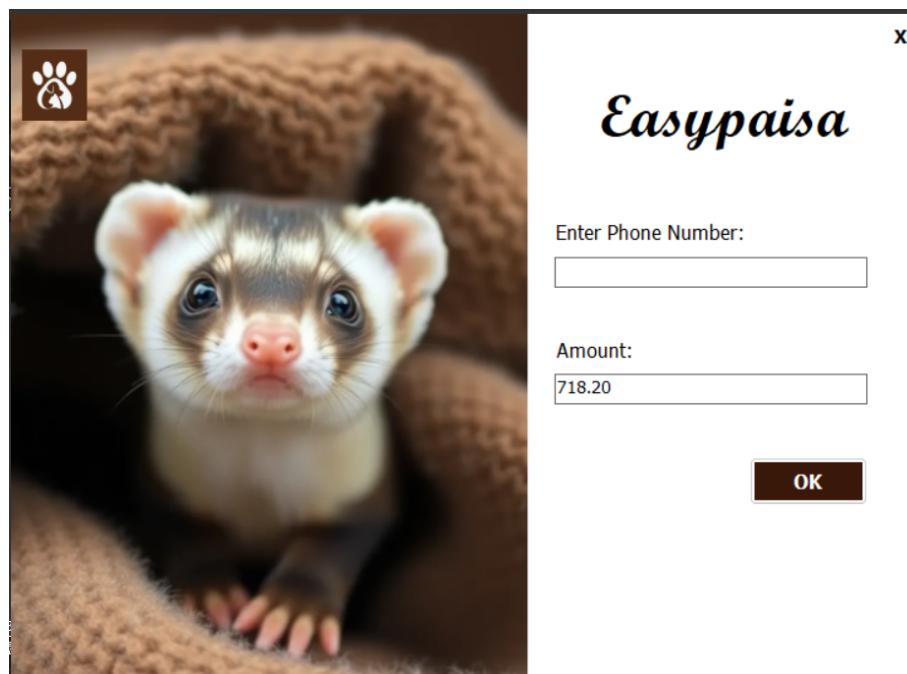
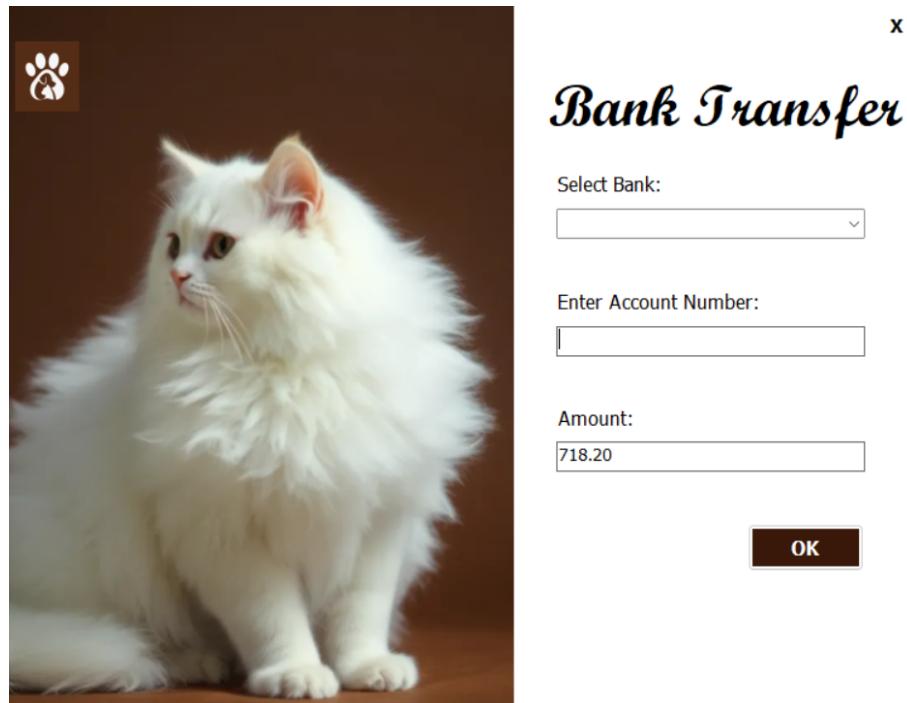
Add



X

**E BANK
TRANSFER**

easypaisa



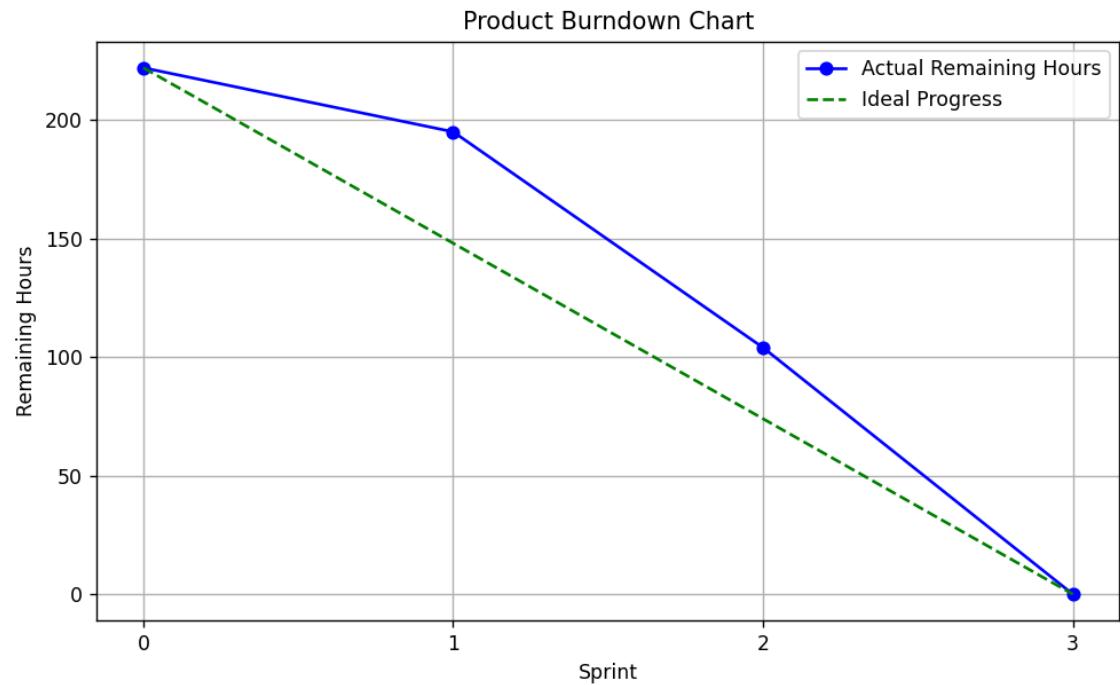


x

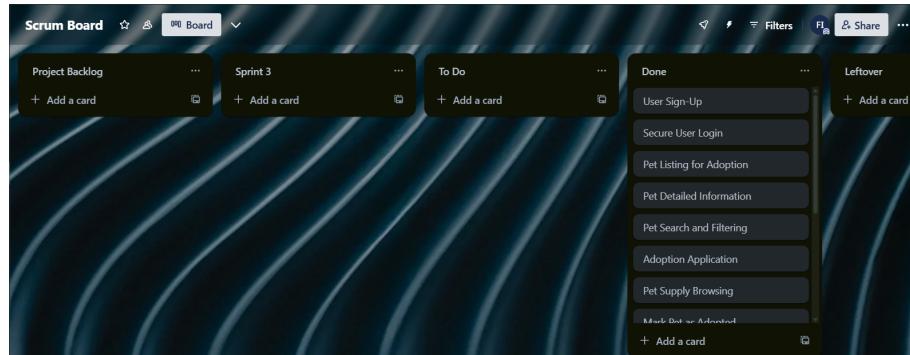
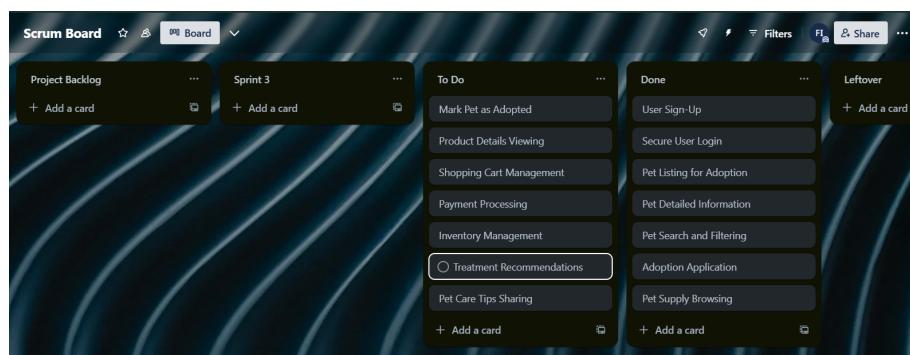
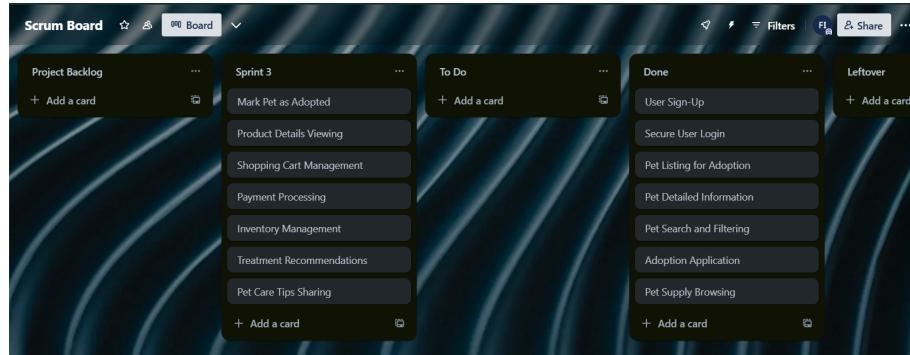


Payment Completed

0.10 Implementation Images



0.11 Scrum Board



0.12 Boundary Value Analysis

0.12.1 Full Name

Valid classes:

- An alphabetic string of length 1 to 100.

Invalid classes:

- A string containing special characters and numbers.
- A string of length 0.
- A string of length greater than 100.

0.12.2 Username

Valid classes:

- Any string of length 1 to 100.

Invalid classes:

- A string of length 0.
- A string of length greater than 100.

0.12.3 Email

Valid classes:

- A string of length 1 to 150, which must contain @ and ..

Invalid classes:

- A string of length 0.
- A string of length greater than 150.
- A string not containing @.

-
- A string not containing .
 - A string in which . is not at the right side of @
 - A string containing @ and . But no characters in between @ and . or no characters after the .

0.12.4 Password

Valid classes:

- A string of length 8 to 100 that must contain at least 1 special character, 1 numeric character, 1 uppercase letter, and 1 lowercase letter.

Invalid classes:

- A string of length less than 8.
- A string of length greater than 100.
- A string containing no special character.
- A string containing no numeric character.
- A string containing no uppercase character.
- A string containing no lowercase character.

0.12.5 BVA

Test Case No	Field	Input Value	Boundary Label	Validity	Expected Outcome
1	Full Name	”	min-	Invalid	Rejected: Empty name
2	Full Name	"A"	min	Valid	Accepted
3	Full Name	"Ab"	min+	Valid	Accepted
4	Full Name	"John Smith"	nom	Valid	Accepted

5	Full Name	100-char alphabetic string	max	Valid	Accepted
6	Full Name	101-char alphabetic string	max+	Invalid	Rejected: Too long
7	Full Name	"John 123"	nom	Invalid	Rejected: Contains numbers
8	Full Name	"John@ Smith"	nom	Invalid	Rejected: Contains special chars
9	Username	""	min-	Invalid	Rejected: Empty username
10	Username	"A"	min	Valid	Accepted
11	Username	"Ab"	min+	Valid	Accepted
12	Username	"user_123"	nom	Valid	Accepted
13	Username	Doctor Muhammad Hafiz Abdullah Qadri Shaheer Ud Din Shaikh Bin Arfan Bin Imran Bin Ashraf Bin Zubair	max	Valid	Accepted
14	Username	Doctor Muhammad Hafiz Abdullah Qadri Shaheer Ud Din Shaikh Bin Arfan Bin Imran Bin Ashraf Bin Zubairs	max+	Invalid	Rejected: Too long
15	Email	""	min-	Invalid	Rejected: Empty email
16	Email	"a@b"	min	Invalid	Rejected: No dot after @

17	Email	"a@b.c"	min+	Valid	Accepted
18	Email	"user@example.com"	nom	Valid	Accepted
19	Email	150-char valid email	max	Valid	Accepted
20	Email	151-char email	max+	Invalid	Rejected: Too long
21	Email	"userexample.com"	nom	Invalid	Rejected: Missing @
22	Email	"user@domaincom"	nom	Invalid	Rejected: Missing dot
23	Email	"user@.com"	nom	Invalid	Rejected: No char between @ and .
24	Email	"user@domain."	nom	Invalid	Rejected: No char after .
25	Password	"A1a!aaa"	min-	Invalid	Rejected: Too short
26	Password	"A1a!aaaa"	min	Valid	Accepted
27	Password	"A1a!aaaaa"	min+	Valid	Accepted
28	Password	"Aa1!Password123"	nom	Valid	Accepted
29	Password	100-char valid pass- word	max	Valid	Accepted
30	Password	101-char password	max+	Invalid	Rejected: Too long
31	Password	"aaaaaaaa"	nom	Invalid	Rejected: Missing upper- case, digit, special

32	Password	"AAAAAAA"	nom	Invalid	Rejected: Missing lower- case, digit, special
33	Password	"12345678"	nom	Invalid	Rejected: Missing letter and special
34	Password	"Abcdefgh"	nom	Invalid	Rejected: Missing digit and special
35	Password	"Abcdefg1"	nom	Invalid	Rejected: Missing special char

0.13 Work Distribution

0.13.1 Sprint 1:

- **Fahid Imran:** Documentation and requirement analysis
- **Hanzlah Hassan:** Implementation
- **Awais:** Project Manager and tester

0.13.2 Sprint 2:

- **Fahid Imran:** Implementation
- **Hanzlah Hassan:** Documentation
- **Awais:** Project Manager and tester

0.13.3 Sprint 3:

- **Fahid Imran:** Implementation
- **Hanzlah Hassan:** Documentation
- **Awais:** Project Manager and tester

0.14 What we learn from this project?

We learned a variety of practical and theoretical skills related to software engineering along the way while developing the Pet Care and Adoption App. We gained experience in creating and implementing complete application using CRUD (Create, Read, Update, Delete) operations in terms of managing pet records, users, and inventory. We were able to document our process throughout the whole project by documenting every step (i.e. requirement gathering and specifications, user stories etc). We also learned how to create other types of diagrams including UML diagrams for our applications, i.e. class diagram, sequence diagram, and activity diagram with each diagram helped us understand and represent the system's behavior and structure effectively. We also researched and planned the layered architectural design of the application by describing the components, how components interacted with one another, and how the data flows through the system. We were also able to develop our teamwork and project management skills and to collaborate on the

development of the application. Overall, we realized we not only improved our technical capabilities but also gained better insight into common real-world software development processes, while understanding the necessity of good organized documentation.