

BMS COLLEGE OF ENGINEERING

(Autonomous College under VTU)

Bull Temple Road, Basavanagudi, Bangalore – 560019



An AAT report on

“Paws For U - Online Pet Adoption”

Submitted in partial fulfillment of the requirements for the award of
degree

**BACHELOR OF ENGINEERING
IN
INFORMATION SCIENCE AND ENGINEERING**

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2021-22**

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CERTIFICATE

This is to certify that the project entitled “Paws For u ” is a bona-fide work carried out by **Rajath K (1BM19IS125), Roopesh Reddy C (1BM19IS132), Sacheth B Maragiri (1BM19IS135) & Rohith R Kashyap (1BM19IS131)** in partial fulfillment for the award of degree of Bachelor of Engineering in **Information Science and Engineering** from **Visvesvaraya Technological University, Belgaum** during the year **2021-2022**. It is certified that all corrections/suggestions indicated for Internal Assessments have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Signature of the Faculty
Name and Designation

Signature of the HOD
Name and Designation

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ABSTRACT

Our project Paws For You, is a pet adoption website, developed for those who are really in need of a pet. But instead of buying one, you can just adopt one with minimum adoption charges. Pets are brought to you with all the care right where you live.

You can also look for what and which kind of pet you need in our 'know your type' section to get more educated about all the different breeds.

The 'adoption list' is where you can look at all the pets you've marked as 'interested', where you can remove or update the list.

'Become a patron' is that section where you can volunteer or appreciate our work in the form of donations.

PROBLEM STATEMENT

Many dogs and cats are orphaned by their owners which end up on the street as stray, As a result they are deprived of proper shelter and food. On the contrary, there are people who want to have a pet of their own but can't afford one. We shelter dogs and cats and try to act as an intermediate between the strays and with those who want to have a pet. Adopting from our organisation will get a pet for a minimal price.

When we take in the strays to our shelters, we take good care of them and feed them until a pet lover finds us.

ANALYSIS

The main objective here is to develop a website/application to pet lovers that allows them to adopt and fondle the unsheltered stray animals.

The target market of this design focuses on Pet-Specific, Pampered-Pet, Stray-Pet Customers with provision of pet images and also pet sitting services. A detailed information of all different pets that can be adopted is also provided (Fig. 1). A dedicated page (Fig. 2) is provided for customers where they can involve themselves in rescuing such stray pets and provide a shelter for such ones.



Fig1

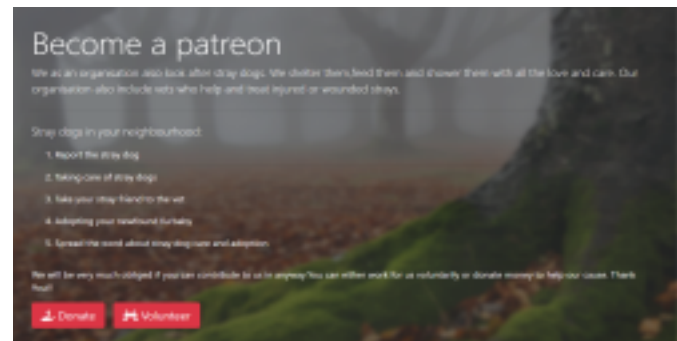


Fig2

SCENARIOS

Normal Scenarios:

- Customers who wish to adopt a pet can register through the login page.
- After logging in the customer can view different breeds of dogs and cats available.
- The customer can choose any available breed of cat or dog from the list .
- Customers can adopt now by paying minimum charges.
- After selection ,the breed selected can be removed or updated in the list.
- Customers can donate some amount in order to support.

Exceptional scenarios:

- It is difficult to check the authentication of the customer.
- Customers may not like the existing breeds.
- Online payment of minimum charges may fail or amount is insufficient in the account.
- The delivered breed is different from the selected one.
- offline follow up cannot be carried out effectively.
- Can't easily maintain online contact with the adopters.

REQUIREMENTS:

Functional Requirements

1. The user will either already have an account or will have to register. Registration must be complete before a user can login to the system.
2. System should validate the user entries while logging into the system.
3. System's home page should be displayed for logged in users where briefing about other sections will be made.
4. Know your type section should help users to find about all the different Breeds of cats and dogs.
5. In the Adopt now section system should display all the breeds which are available for adoption with their prices. So, the user can adopt if he is interested.

Requirement #: 6 Requirement type: Functional

Description: A user can adopt a maximum of two pets of any breed.

Rationale: So that the pets adopted by the user will be treated well without any problems for their needs.

Source: Pet adoption site.

Fit criterion: After getting to know the information about all the different breeds available, the user can add a maximum of two pets for his adoption list.

Dependencies: Login and Logout

Non-Functional Requirements

1. Quality Requirements:

- Usability- If a user gets locked out of their account by means of forgetting their password or username etc. A recovery option will be available to recover the account. Which creates a hassle-free environment. Users will have an option to become a patron where users can contribute to us in the form of donations or can be a volunteer.
- Reliability- If certain functionalities within the application do not react as they should, there is clearly a problem within the application. In this case, testing will be carried out to ensure the application is reliable.
- Performance- The response time of the application will be carefully considered during the application development. After the user selects/adopts the pets through application they will be safely delivered to their respective address.
- Security- All details that a user submits to the database will be kept secure.
- Adaptability- The application can be easily upgraded to the latest standards and frameworks. So, it can be easily ported to a mobile application across all devices, as well as being viewed in any web browser.

2. Constraints:

- Implementation- Programming languages(HTML, CSS, PHP, Java Script)
- Legal- Legal concern would be if an animal that was adopted through the system were to cause harm to someone.

Use Case Diagram

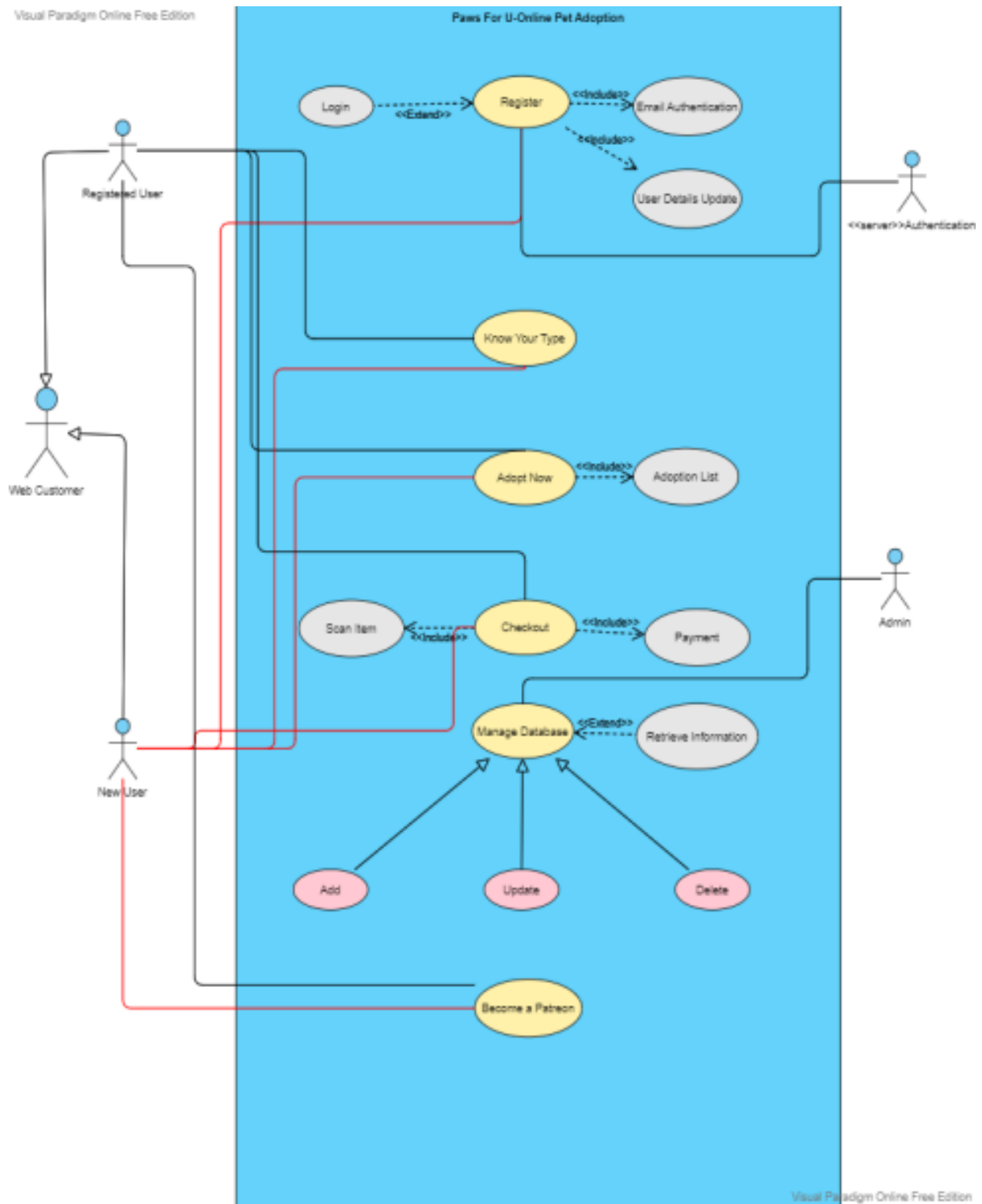


Fig3. Use Case Diagram

Set of actors:

The users who interact with the system as in this case, the service provider and the customer form the set of actors. The actors who play a major role in this case are as follows:

- Generalized as Web Customers-->New User and Registered User
- Admin
- Authentication service

Use Cases:

1. Register- New User enters his details to sign up for the application.
2. Know Your Type-New User/Registered User can browse through different breeds of dogs and cats.
3. Manage database- the admin handles the information of all the Web Customers.
4. Adopt Now-Customers can add their interested choice of breeds to the adoption list.
5. Checkout- The user can either remove or update the adoption list. This also includes the payment process
6. Become a patreon-The user can voluntarily donate for the cause.

Use Case Description:

Use case name: Manage Database

Participating actors: Admin.

Flow of events:

- 1) New User enters the details for the registration process.
- 2) Customer information is read and stored in the admin database.
- 3) In response, the admin validates the login credentials while the customer tries to login into the application.

Entry condition: Customer successfully registers to the application, and his information is added to the database.

Exit condition: The Customer is acknowledged by the admin and the user can proceed to the page.

Quality requirements:

- 1)The internet service must be working effectively.
- 2)The user interface must be friendly.

Stage 2 Submission

Class Diagram:

1/9/22, 7:17 PM

Class.jpg

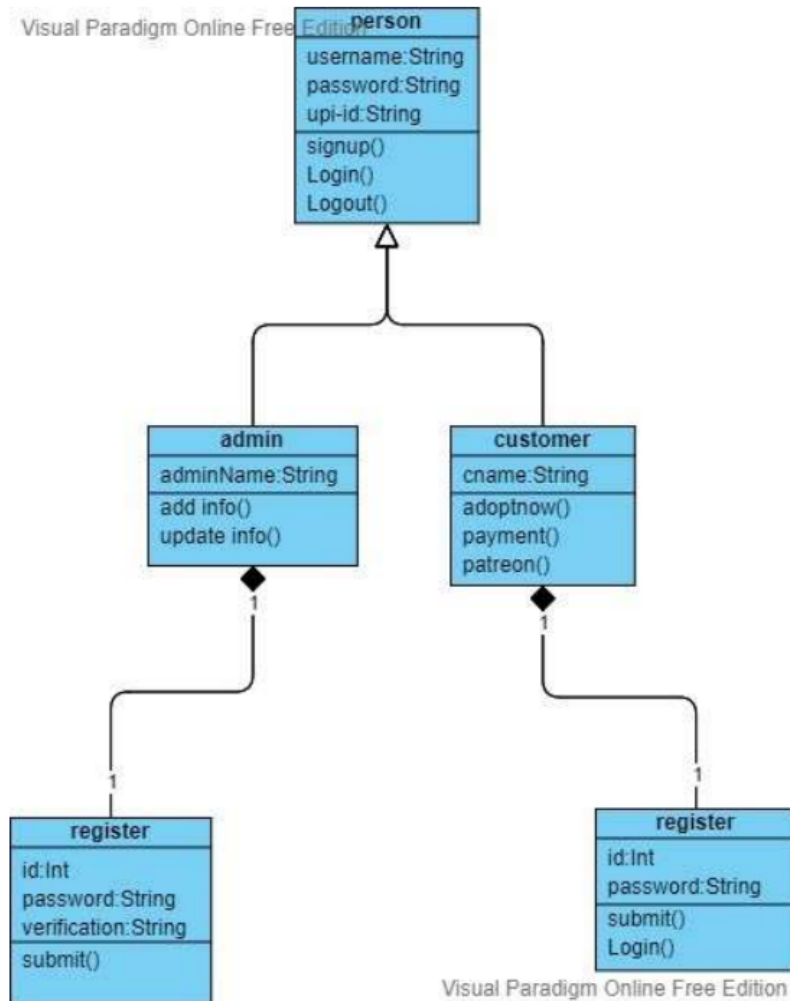


Fig4. Class Diagram of Customer and Admin

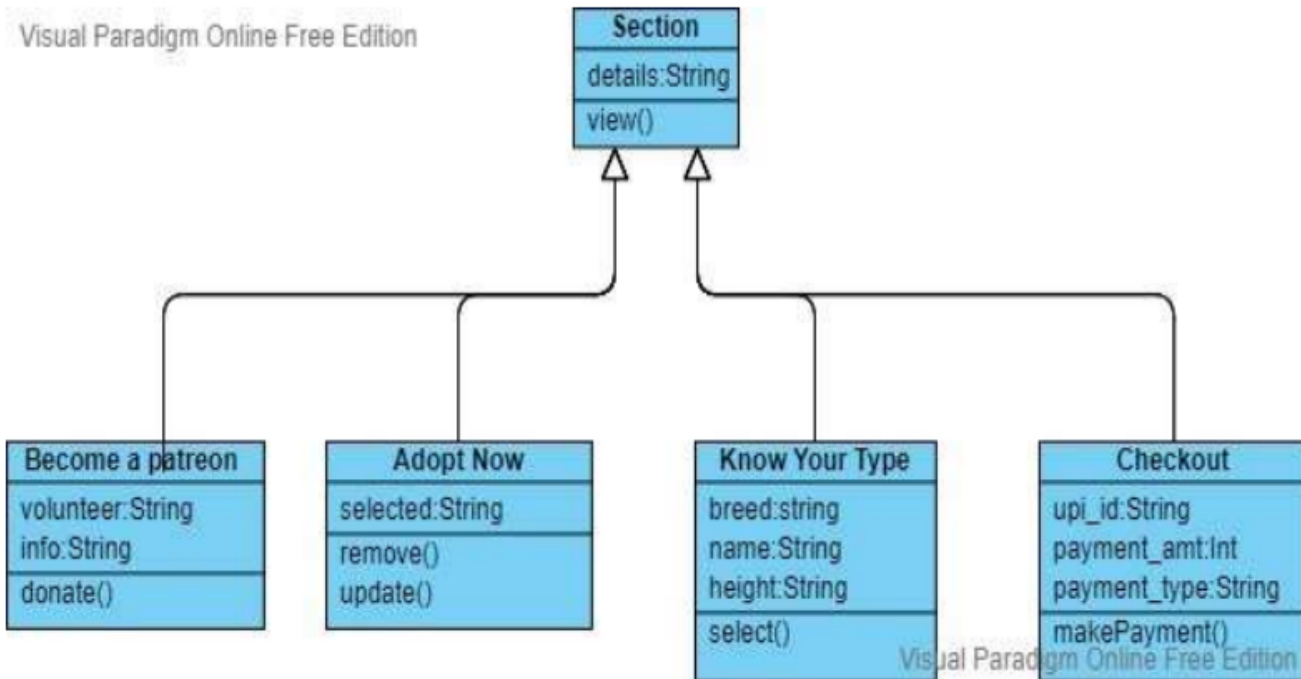


Fig5. Class Diagram of Sections

Activity Diagram

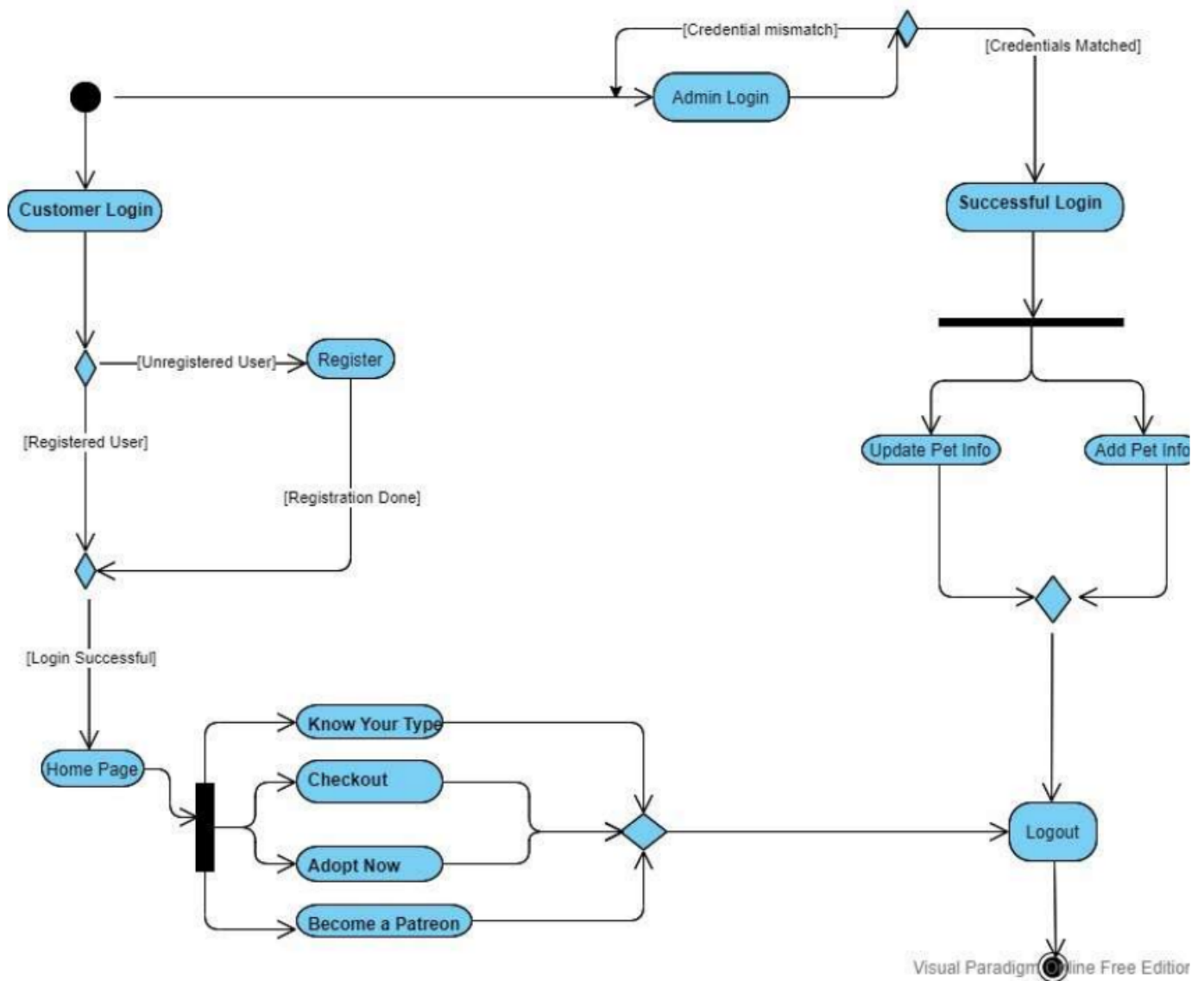


Fig6. Activity Diagram

Test Suites:

	A	B	C	D	E	F	G	H	I	
1	Project Name	Paws 4 U								
2	Module Name	Admin: Update and Delete info								
3	Date of Creation	1/8/2022								
4										
5										
6										
7	TEST CASE ID	TEST SCENARIO	TEST CASE DESCRIPTION	PRE CONDITION	TEST STEPS	TEST INPUT	EXPECTED BEHAVIOUR	ACTUAL RESULT	TEST CASE STATUS(PASS/FAIL)	
8	TC2.1	Update and Delete Pet info	Enter pet info and pet price for storing in DB	Admin should have logged in and selected update option.	1. Enter pet info. 2. Enter pet price 3. Click on update	Valid pet info Valid pet price	Updation Successful	Updation Successful	Pass	
9	TC2.2	Update and Delete Pet info	Enter already existing pet info and pet price for storing in DB	Admin should have logged in and selected update option.	1. Enter pet info. 2. Enter pet price 3. Click on update	Existing pet info Valid pet price	Alert: "Pet already present in Database"	Updation Successful	Failed	
10	TC2.3	Update and Delete Pet info	Enter pet info and appropriate pet price to delete from DB	Admin should have logged in and selected delete option.	1. Enter pet info. 2. Enter pet price 3. Click on delete	Valid pet info Valid pet price	Deletion Successful	Deletion Successful	Pass	
11	TC2.4	Update and Delete Pet info	Enter already deleted pet info and appropriate pet price to delete pet from DB	Admin should have logged in and selected delete option.	1. Enter pet info. 2. Enter pet price 3. Click on delete	Deleted pet info Valid pet price	Alert: "Pet not found in Database"	Deletion Successful	Failed	
12										

Fig7. Admin Test Suite

Project Name	Paws 4 U							
Module Name	Login							
Date of Creation	1/8/2022							
TEST CASE ID	TEST SCENARIO	TEST CASE DESCRIPTION	PRE CONDITION	TEST STEPS	TEST INPUT	EXPECTED BEHAVIOUR	ACTUAL RESULT	TEST CASE STATUS(PASS/FAIL)
TC1.1	Verify the login credentials	Enter valid username and valid password.	User should have already registered through sign up page.	1.Enter Username 2.Enter Password 3.Click on Login	Valid Username Valid Password	Login Successful	Login Successful	Pass
TC1.2	Verify the login credentials	Enter invalid username and valid password.	User should have already registered through sign up page.	1.Enter Username 2.Enter Password 3.Click on Login	Invalid Username Valid Password	Login Failed	Login Failed	Pass
TC1.3	Verify the login credentials	Enter valid username and invalid password.	User should have already registered through sign up page.	1.Enter Username 2.Enter Password 3.Click on Login	Valid Username Invalid Password	Login Failed	Login Failed	Pass
TC1.4	Verify the login credentials	Enter invalid username and invalid password.	User should have already registered through sign up page.	1.Enter Username 2.Enter Password 3.Click on Login	Invalid Username Invalid Password	Login Failed	Login Failed	Pass
TC1.5	Verify the login credentials	Enter valid username and valid password, but username already existing.	User should have already registered through sign up page.	1.Enter Username 2.Enter Password 3.Click on Login	Valid Username Valid Password	Login Failed	Login Successful	Failed

Fig8. Login Test Suite

Project Name	Paws 4 U							
Module Name	Payments Process							
Date of Creation	1/8/2022							
TEST CASE ID	TEST SCENARIO	TEST CASE DESCRIPTION	PRE CONDITION	TEST STEPS	TEST INPUT	EXPECTED BEHAVIOUR	ACTUAL RESULT	TEST CASE STATUS(PASS/FAIL)
TC2.1	Accept Payment	Enter valid UPI id and valid length UPI PIN for entered UPI	User should have updated and checked out from cart to payment process	1.Enter UPI id. 2.Enter UPI PIN 3.Click On Pay Now.	Valid UPI id Valid pin length	Payment Successful	Payment Successful	Pass
TC2.2	Accept Payment	Enter valid UPI id and invalid length UPI PIN for entered UPI	User should have already registered through sign up page.	1.Enter UPI id. 2.Enter UPI PIN 3.Click On Pay Now.	Valid UPI id Invalid pin length	Payment Unsuccessful	Payment Unsuccessful	Pass
TC2.3	Accept Payment	Enter invalid UPI and valid length UPI PIN for entered UPI	User should have already registered through sign up page.	1.Enter UPI id. 2.Enter UPI PIN 3.Click On Pay Now.	Invalid UPI id Valid pin length	Payment Unsuccessful	Payment Unsuccessful	Pass
TC2.4	Accept Payment	Enter invalid UPI and incorrect UPI PIN for entered UPI	User should have already registered through sign up page.	1.Enter UPI id. 2.Enter UPI PIN 3.Click On Pay Now.	Invalid UPI id Invalid pin length	Payment Unsuccessful	Payment Unsuccessful	Pass

Fig9. Payments Test Suite

Documentation:

Serial No.	REQUIREMENT ID	REQUIREMENT DESCRIPTION	TESTCASE ID	TESTCASE DESCRIPTION	TEST DESIGN	TEST EXECUTION		REQUIREMENT COVERAGE
						TEST ENV.	PROD ENV.	
1	R1	Login to Application	TC 1.1	Login with valid username and password.	Completed	Passed	No run	Partial
	R1	Login to Application	TC 1.2	Login with valid username and invalid password.	Completed	Passed	No run	Partial
	R1	Login to Application	TC 1.3	Login with invalid username and valid password.	Completed	Passed	No run	Partial
	R1	Login to Application	TC 1.4	Login with invalid username and invalid password.	Completed	Passed	No run	Partial
	R1	Login to Application	TC 1.5	Login with valid username and valid password, but username already exists.	Completed	Failed	No run	Partial
2	R2	Checkout to Payment	TC 2.1	Payment with valid UPI ID and valid length UPI PIN.	Completed	Passed	No run	Completed
	R2	Checkout to Payment	TC2.2	Payment with invalid UPI ID and valid length UPI PIN.	Completed	Passed	No run	Completed
	R2	Checkout to Payment	TC2.3	Payment with valid UPI ID and invalid length UPI PIN.	Completed	Passed	No run	Completed
	R2	Checkout to Payment	TC2.4	Payment with invalid UPI ID and invalid length UPI PIN.	Completed	Passed	No run	Completed

Fig10. Requirement Traceability Matrix