

Software Engineering

(IT314)



GUI Testing

IT314-Software Engineering

G1-Pet Adoption System

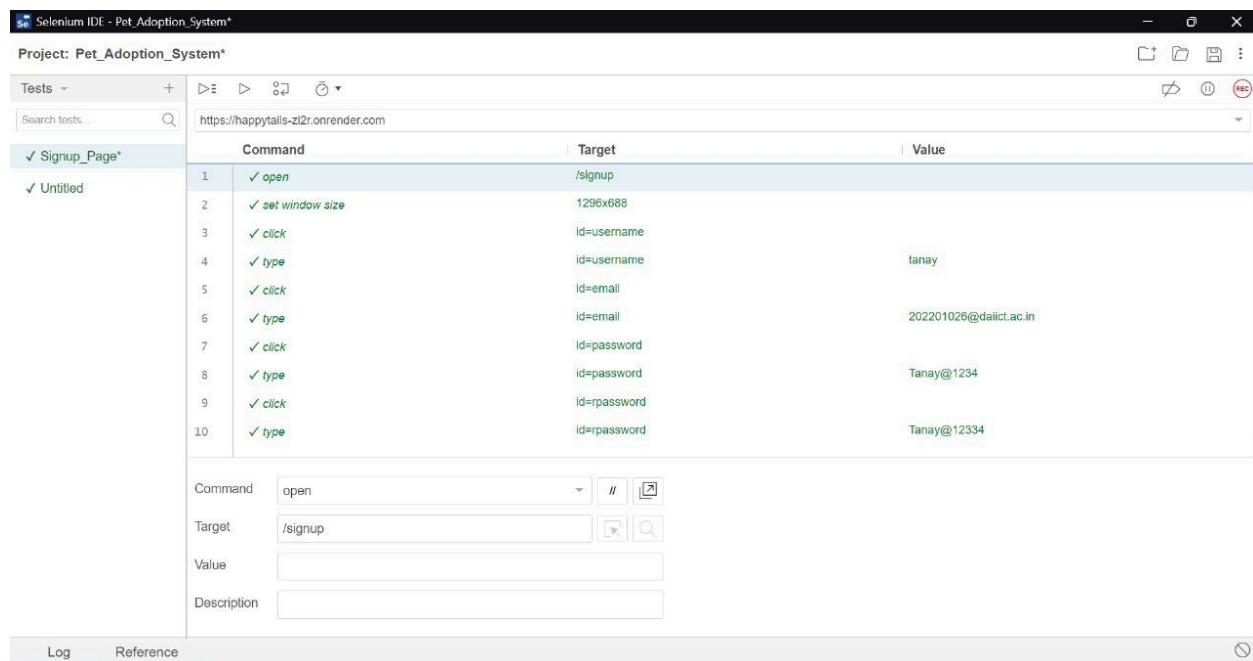
❖ Description

- This testing evaluates the appearance, behavior, and responsiveness of GUI elements, checking for proper functionality, consistency, and responsiveness across devices. It helps identify visual or functional issues, ensuring a smooth, user-friendly interface through both manual and automated testing approaches.
- ❖ **Aim :** The aim is to identify and resolve usability, functionality, and performance issues across devices and platforms.

❖ Testing Objectives

- **Visual Consistency:** Ensure GUI elements are consistent and adhere to design specifications.
- **Functionality:** Verify buttons, forms, and navigation elements work correctly.
- **Responsive Design:** Test usability across different screen sizes.
- **User Interactions:** Confirm correct behavior for clicks, form submissions, etc.
- **Error Handling:** Validate appropriate error messages for incorrect input/actions

❖ Page Title: Happy Tails - Signup Page



The screenshot shows the Selenium IDE interface with a test script for the 'Signup Page' of the 'Pet_Adoption_System'. The test script consists of 10 steps:

Step	Action	Target	Value
1	✓ open	/signup	
2	✓ set window size	1296x688	
3	✓ click	id=username	
4	✓ type	id=username	tanay
5	✓ click	id=email	
6	✓ type	id=email	202201026@dalit.ac.in
7	✓ click	id=password	
8	✓ type	id=password	Tanay@1234
9	✓ click	id=password	
10	✓ type	id=password	Tanay@1234

The bottom of the interface shows command, target, value, and description fields, along with a log and reference tab at the bottom.

Create new Account

Already have an account? [Login](#)

User Name

Email

Password

Retype Password

[Sign Up](#)

Password strength: Strong

[Sign up with Google](#)

Element Name	Type	Functionality	Working (Yes/No)
User Name	Textbox	Accepts user name input	Yes
Email	Textbox	Accepts email input	Yes
Password	Password Textbox	Accepts password input	Yes
Retype Password	Password Textbox	Verifies matching passwords	Yes
Sign Up	Button	Submits the form to create a new account	Yes
Sign up with Google	Button	Redirects to Google authentication	Yes

❖ **Page Title:** Happy Tails - [Login Page](#)

Selenium IDE - Pet_Adoption_System*

Project: Pet_Adoption_System*

Executing

X Login_Page*

https://happytails-zl2r.onrender.com/login

Command	Target	Value
1 ✓ open	https://happytails-zl2r.onrender.com/login	
2 ✓ set window size	1280x672	
3 ✘ click	id=email	
4 type	id=email	202201026@daiict.ac.in
5 click	id=password	
6 type	id=password	Tanay@1234
7 click	css=.mt-4:nth-child(3)	

Command

Target

Value

Description

Runs: 1 Failures: 1

Log Reference

2. setWindowSize on 1280x672 OK 22:07:53

3. Trying to find id=email... Failed: Implicit Wait timed out after 30000ms 22:07:53

'Login_Page' ended with 1 error(s) 22:08:24

Selenium IDE - Pet_Adoption_System*

Project: Pet_Adoption_System*

Tests +

✓ Login_Page*

✓ Signup_Page

✓ Untitled

Search tests... Q

https://happytails-zl2r.onrender.com

Command	Target	Value
1 ✓ open	/signup	
2 ✓ set window size	1296x688	
3 ✓ click	id=username	
4 ✓ click	linkText=Login	
5 ✓ click	id=email	
6 ✓ type	id=email	202201026@daiict.ac.in
7 ✓ click	id=password	
8 ✓ type	id=password	Tanay@111
9 ✓ click	css=.grid:nth-child(2)	
10 ✓ click	linkText=Forgot Password?	
11 ✓ click	id=email	

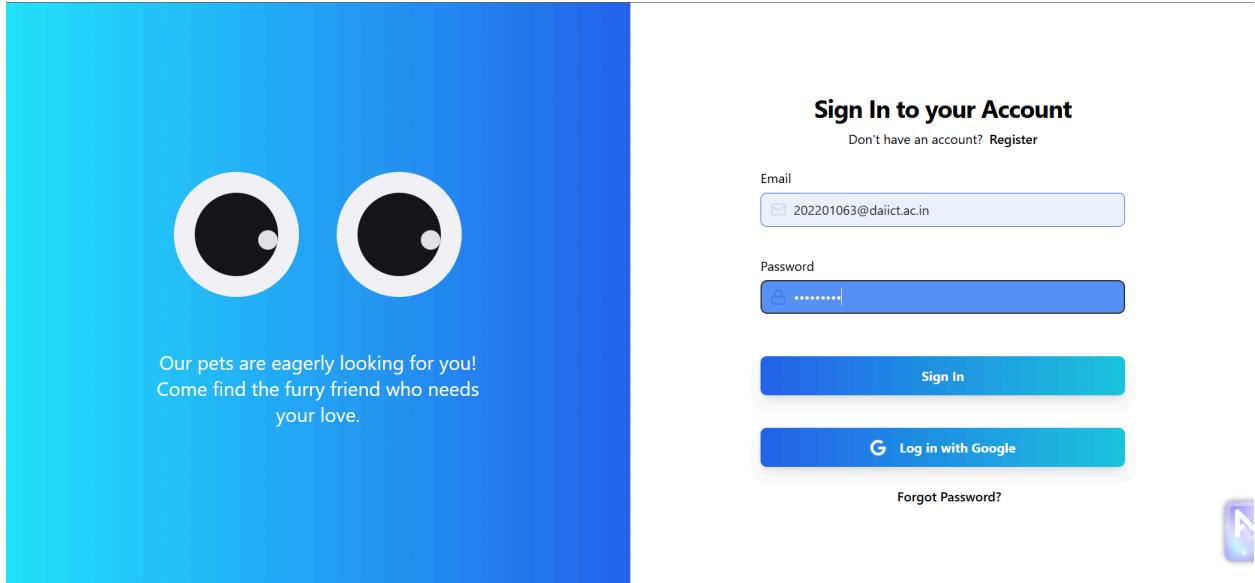
Command open

Target /signup

Value

Description

Log Reference



Element Name	Type	Functionality	Working (Yes/No)
Email	Textbox	Accepts email input	Yes
Password	Password Textbox	Accepts password input and masks the input	Yes
Sign In	Button	Submits the form to log in the user	Yes
Log in with Google	Button	Redirects to Google authentication	Yes
Forgot Password?	Link/Button	Redirects to the password recovery page	Yes

❖ **Page Title:** Happy Tails - [Forgot Password Page](#)

Selenium IDE - Pet_Adoption_System*

Project: Pet_Adoption_System*

Tests + REC

Search tests... ...

https://happytails-zl2r.onrender.com

✓ Login_Page* ...

✓ Signup_Page
✓ Untitled

	Command	Target	Value
10	✓ click	linkText=Forgot Password?	
11	✓ click	id=email	
12	✓ type	id=email	202201026@daiict.ac.in
13	✓ click	css=.mt-4	
14	✓ click	id=email	
15	✓ type	id=email	202201026@daiict.ac.in
16	✓ click	id=OTP	
17	✓ type	id=OTP	2534
18	✓ click	id=password	
19	✓ type	id=password	Tanay@1234

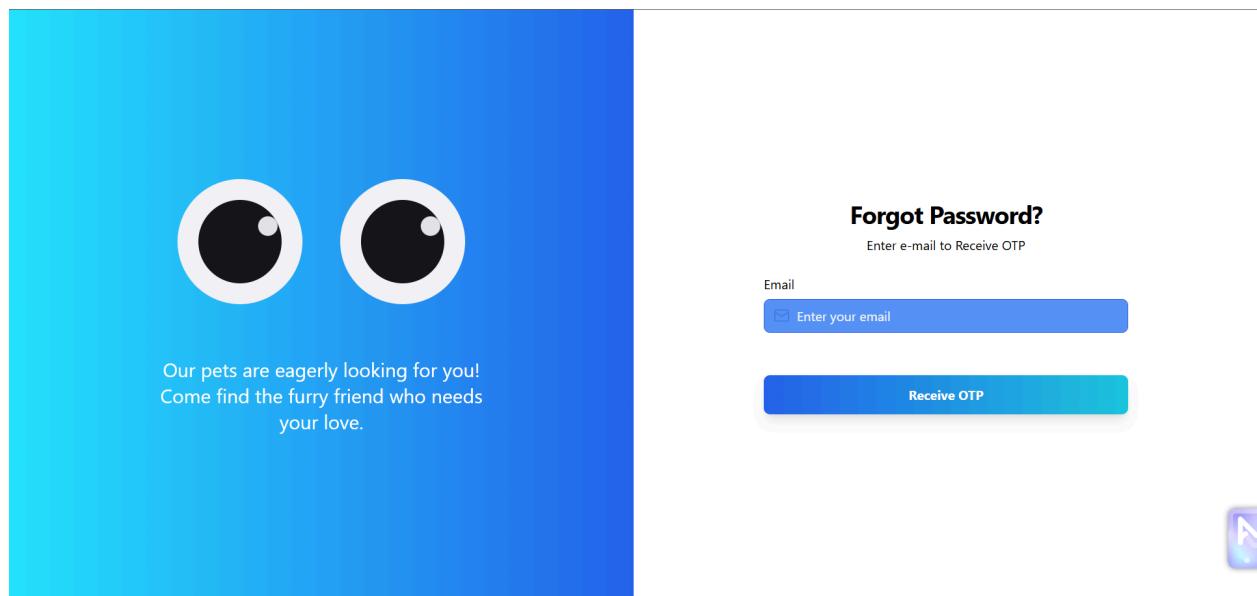
Command: open /signup

Target: /signup

Value:

Description:

Log Reference



Element Name	Type	Functionality	Working (Yes/No)
Forgot Password?	Text	Displays the heading for the "Forgot Password" page	Yes
Enter e-mail to Receive OTP	Text	Provides instructions to the user	Yes

Email	Textbox	Accepts user email input	Yes
Receive OTP	Button	Sends OTP to the entered email address	Yes
Left-Side Graphic	Image	Displays visual design (eyes graphic)	Yes
Informative Message	Text	Displays message: "Our pets are eagerly looking for you!..."	Yes

Change password:

Selenium IDE - Pet_Adoption_System*

Project: Pet_Adoption_System*

Tests + D E ▶ ○ ↻ ○ ▷ Run current test Ctrl+R irender.com/login

Command	Target	Value
10 ✓ click	id=OTP	
11 ✓ type	id=OTP	2345
12 ✓ click	id=password	
13 ✓ type	id=password	Tanay@1234
14 ✓ click	id=rpassword	
15 ✓ type	id=rpassword	Tanay@1234

Command

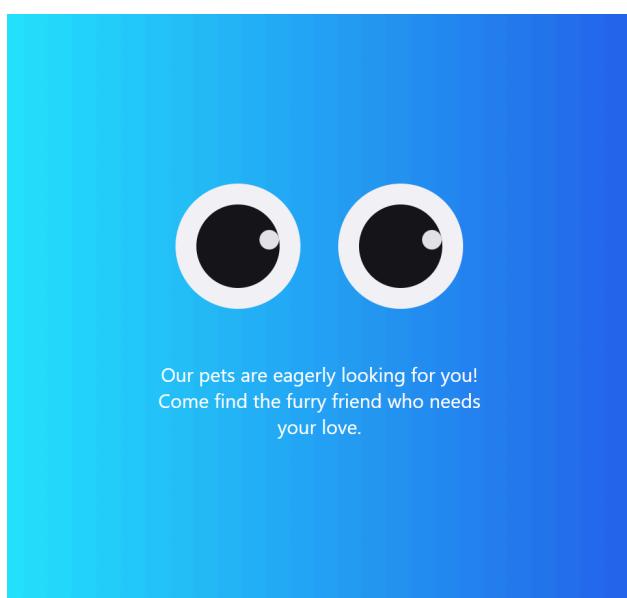
Target

Value

Description

Log Reference

13. type on id=password with value Tanay@1234 OK 02:19:04
 14. click on id=rpassword OK 02:19:04
 15. type on id=rpassword with value Tanay@1234 OK 02:19:04
 'Change_Password' completed successfully 02:19:04



Create New Password

Email

OTP

Password

Password

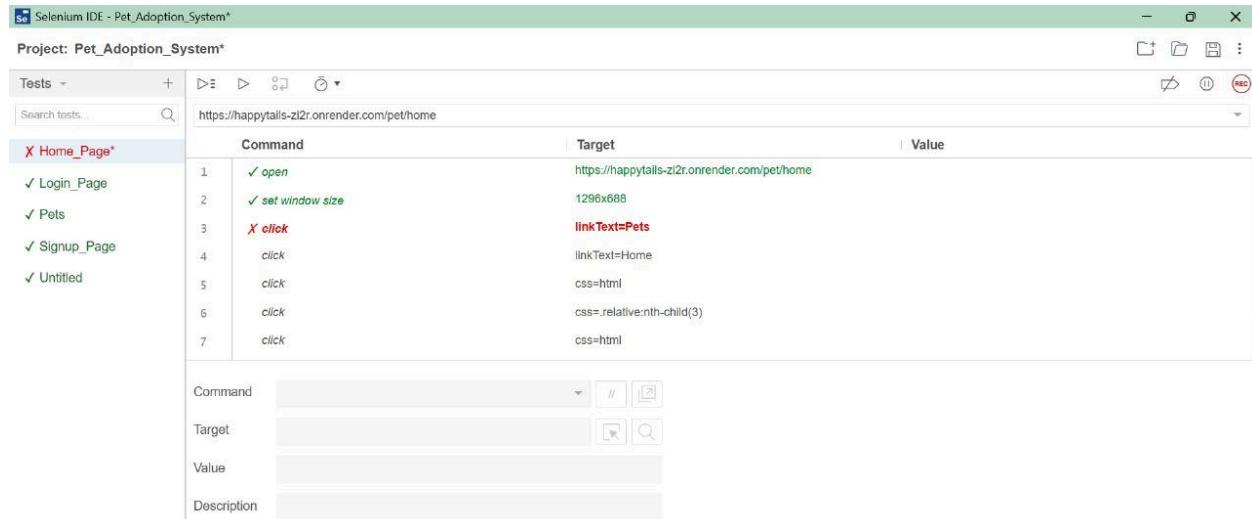
Change Password



Element Name	Type	Functionality	Working (Yes/No)
Email	Textbox	Accepts email input	Yes
OTP	Textbox	Accepts OTP input	Yes
Password (New)	Password Textbox	Accepts new password input and masks the input	Yes
Confirm Password	Password Textbox	Accepts confirmation password and masks the input	Yes
Change Password	Button	Submits the form to update the user's password	Yes

❖ Page Title: Happy Tails - [Pet Home Page](#)

➤ Home:



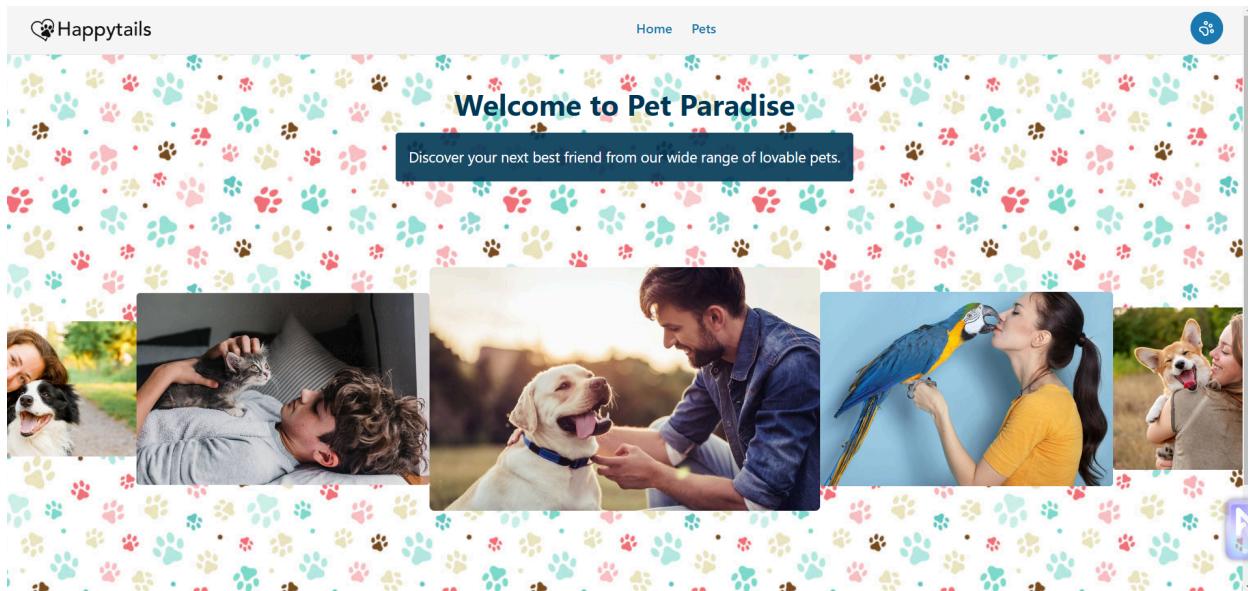
The screenshot shows the Selenium IDE interface with the following details:

- Project:** Pet_Adoption_System*
- Test Case:** X Home_Page*
- URL:** https://happytails-z12r.onrender.com/pet/home
- Script Content:**

```

    1 ✓ open https://happytails-z12r.onrender.com/pet/home
    2 ✓ set window size 1296x688
    X click linkText=Pets
    4 click linkText=Home
    5 click css=html
    6 click css=relative:nth-child(3)
    7 click css=html
  
```
- Log Tab:**
 - Running 'Home_Page'
 - 1. open on https://happytails-z12r.onrender.com/pet/home OK 02:09:02
 - 2. setWindowSize on 1296x688 OK 02:09:03
 - 3. Trying to find linkText=Home... Failed: Implicit Wait timed out after 30000ms 02:09:04
- Reference Tab:**
 - 8. click on css=html OK 02:43:23
 - 9. Trying to find css=relative:nth-child(3)... Failed: Implicit Wait timed out after 30000ms 02:43:23

'Home_Page' ended with 1 error(s) 02:43:53



Element Name	Type	Functionality	Working (Yes/No)
Home	Link/Button	Navigates to the Home page	Yes
Pets	Link/Button	Navigates to the Pets page	No(delayed)
Welcome to Pet Paradise	Text	Displays welcome message	Yes
Discover your next best friend...	Text	Displays subheading with information	Yes
Dog Image (Left)	Image	Displays image of a dog with owner	Yes
Cat Image (Center)	Image	Displays image of a person with a cat	Yes
Parrot Image (Right)	Image	Displays image of a person interacting with a parrot	Yes
Dog (Rightmost Image)	Image	Displays image of a dog being hugged	Yes
Logo (Happytails)	Image/Link	Redirects to the homepage	Yes

❖ Page Title: Happy Tails - Pet Listing Page

Selenium IDE - Pet_Adoption_System*

Project: Pet_Adoption_System*

Executing ▾ Run current test Ctrl+R irender.com/pet/home

X Pets* Command Target Value

21	✓ click	name=name	
22	✓ type	name=name	Tanay
23	✓ click	name=email	
24	X type	name=email	202201026@dalict.ac.in
25	click	name=address	
26	type	name=address	Dalict
27	click	name=firstpet	

Command Target Value

Target

Value

Description

Runs: 1 Failures: 1

Log Reference

```
23. click on name=email OK
24. Trying to find name=email... Failed:
Implicit Wait timed out after 30000ms
'Pets' ended with 1 error(s)
```

22:33:29
22:33:29
22:33:59

Selenium IDE - Pet_Adoption_System*

Project: Pet_Adoption_System*

Tests - + https://happytails-zl2r.onrender.com/pet/home

Search tests...

Login_Page

✓ Pets*

Signup_Page

Untitled

Command Target Value

29	✓ type	name=address	Dalict
30	✓ click	name=firstpet	
31	✓ type	name=firstpet	yes
32	✓ click	name=whyadopt	
33	✓ type	name=whyadopt	I like it
34	✓ click	css=px-4:nth-child(2)	

Command Target Value

Target

Value

Description

Log Reference

```
32. click on name=whyadopt OK
33. type on name=whyadopt with value I like it OK
34. click on css=px-4:nth-child(2) OK
'Pets' completed successfully
```

22:46:00
22:46:00
22:46:00
22:46:00

The screenshot shows a web application interface for a pet adoption platform named "Happytails". At the top left is the logo "Happytails" with a paw print icon. At the top right are links for "Home" and "Pets". A user profile icon is also present in the top right corner.

Filters

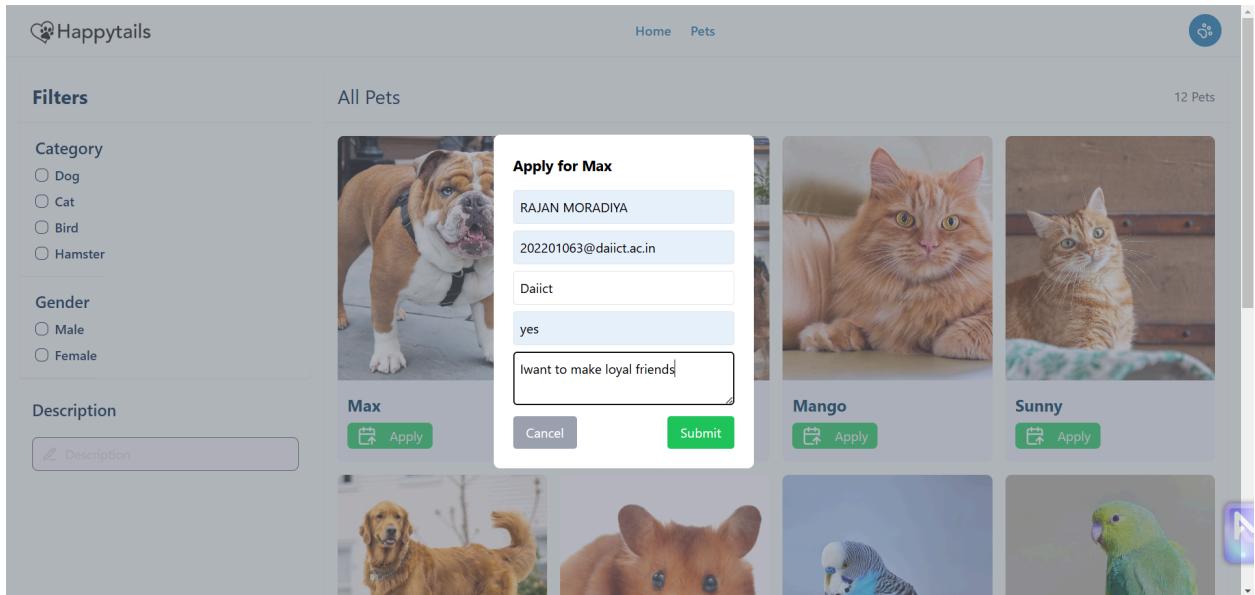
- Category**
 - Dog
 - Cat
 - Bird
 - Hamster
- Gender**
 - Male
 - Female
- Description**

All Pets

12 Pets

Max	Luna	Mango	Sunny

Element Name	Type	Functionality	Working (Yes/No)
Category Filter	Checkbox Group	Filters pets by category (Dog, Cat, Bird, Hamster)	Yes
Gender Filter	Checkbox Group	Filters pets by gender (Male, Female)	Yes
Description	Textbox	Allows users to enter a description for filtering	Yes
Pet Name (Max)	Text Display	Displays the name of the pet	Yes
Pet Name (Luna)	Text Display	Displays the name of the pet	Yes
Pet Name (Mango)	Text Display	Displays the name of the pet	Yes
Pet Name (Sunny)	Text Display	Displays the name of the pet	Yes
Apply Button (Max)	Button	Allows the user to apply for adoption for "Max"	Yes
Apply Button (Luna)	Button	Allows the user to apply for adoption for "Luna"	Yes
Apply Button (Mango)	Button	Allows the user to apply for adoption for "Mango"	Yes
Apply Button (Sunny)	Button	Allows the user to apply for adoption for "Sunny"	Yes

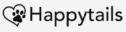


Element Name	Type	Functionality	Working (Yes/No)
Name	Textbox	Accepts user's name input	Yes
Email	Textbox	Accepts email input	Yes
Address	Textbox	Accepts address input	Yes
Previous Pet Ownership	Textbox	Accepts "yes" or "no" for previous pet ownership	Yes
Reason	Textbox (Text Area)	Allows user to input reason for application	Yes
Cancel	Button	Closes the form without submitting	Yes
Submit	Button	Submits the form for applying for a pet	Yes

❖ Page Title: Happy Tails -[Account Page](#)

The screenshot shows the Selenium IDE interface with the following details:

- Project:** Pet_Adoption_System*
- Test Name:** Accounts_Page*
- Test Status:** Executing
- Test Log:**
 - Step 7: ✓ send keys (Target: #password, Value: \$(KEY_ENTER))
 - Step 8: ✓ click (Target: #password)
 - Step 9: ✘ click (Target: #password)
 - Step 10: run script (Value: window.scrollTo(0,64.8888549804688))
 - Step 11: click (Target: #password)
 - Step 12: click (Target: #password)
- Test Results:** Runs: 1, Failures: 1
- Log:**
 - 6. click on #password OK
 - 6. Trying to find class: relative:nth-child(3)... Failed: Implicit Wait timed out after 30000ms
- Timeline:** 14:50:55, 14:50:56, 14:51:27

 Happytails

Home Pets

Rajan's Account



Rajan
202201063@daiict.ac.in

Account Settings

Log Out

Your Applications







Max

Meet Max, a delightful 5-year-old English Pug! He's affectionate, playful, and loves being the center of attention.

 pending



Max

Meet Max, a delightful 5-year-old English Pug! He's affectionate, playful, and loves being the center of attention.

 pending



Max

Meet Max, a delightful 5-year-old English Pug! He's affectionate, playful, and loves being the center of attention.

 pending



Max

Meet Max, a delightful 5-year-old English Pug! He's affectionate, playful, and loves being the center of attention.

 pending



Max

Meet Max, a delightful 5-year-old English Pug! He's affectionate, playful, and loves being the center of attention.

 pending



Max

Meet Max, a delightful 5-year-old English Pug! He's affectionate, playful, and loves being the center of attention.

 pending

Element Name	Type	Functionality	Working (Yes/No)
Profile Name (Rajan)	Text Display	Displays the user's name	Yes
Email Address	Text Display	Displays the user's email address	Yes
Log Out	Button	Logs the user out of the account	Yes
Home	Link/Button	Redirects to the home page	Yes

Pets	Link/Button	Redirects to the pets page	Yes
Pet Image (Max)	Image Display	Displays the pet's image	Yes
Pet Name (Max)	Text Display	Displays the pet's name	Yes
Pet Description	Text Display	Displays information about the pet	Yes
Pending Button	Button	Indicates the application status as "Pending"	Yes
Pet image	Click	Click on image	No