Software Engineering and Testing. BSC Year 2, 2024/2025

Assessment 2: Requirements Document

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Declaration

I hereby certify that this material, which I now submit for assessment on the programme of study leading to the award of Ordinary Degree in Computing in the Institute of Technology Blanchardstown, is entirely my own work except where otherwise stated.

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Client

1. Project Overview

- is an interactive website that helps adopters find their furry companions. Adopters can create their own profiles, where they can add their personal information and preferences. They can search through a list of available pets, such as dogs and cats to find one that matches what they're looking for. Once they find a pet they're interested in, they can fill out details and apply for adoption. The main goal of Pawsible is to make it easier for people to adopt pets and provide them with loving homes. By doing so, the website helps reduce the number of pets that are abandoned and increases the rates of adoption, giving more pets a chance for better life.

The project definition:

- This project is a website between adopters and admins of Pawsible and newly joined users.
- Manage requests made by adopters who find the pet they want to adopt
- The website will have UI - where the users will be able to interact with the website through the adoption application as well as the user registration page. Database – stores all the information and data of users. Backend Server – such as processing data and responds to user actions. Business Logic – instructions on how the website should be used.
- This website will be used between adopters, new users who haven't registered on the website yet, and admins of Pawsible.

2. Scope

Functions the Pawsible will do:

- Users can create profiles.
- Users can search for pets by breed, age, location and size.
- Users can apply to adopt pets.
- Admins can approve or deny adoption applications

Functions Pawsible will not do:

- The software won't be able to pay adoption fees for their pets.
- Pawsible won't include international adoptions only local.

- **Required** - Users must be able to search for pets by breed, age, location and by name
- **Desirable**: It would be desirable if users could filter pets by their nature (e.g., excited, calm).

3. Walk-In Through Scenarios

Walkthrough Scenario 1: User Registration and Profile Creation

- New User visits the Pawsible website
- User clicks on 'Register': They come across the registration page.
- User enters personal information: The user fills out a form with details like name, email, address, and preferences for pet adoption.
- System verifies details: The system checks if the input is correct and if the user already exists in the database.
    - If the user is new, the system creates a profile and stores the information in the database.
    - If the user already exists, the system shows the user a message saying their details are already in the database.
- Confirmation: The user gets a confirmation message that their profile was successfully created and can now start browsing available pets.

Walkthrough Scenario 2: Searching for a Pet

- User logs into their profile: After logging in, the user sees options for pet adoption.
- User enters search criteria: The user can filter pets by breed, age, size, or location using the search bar.
- System searches the database: The system gets available pets matching the search criteria.
- Displaying results: A list of pets is displayed, and the user can view more details about each pet by clicking on a pet's profile.

4. Product Requirements

User Requirements

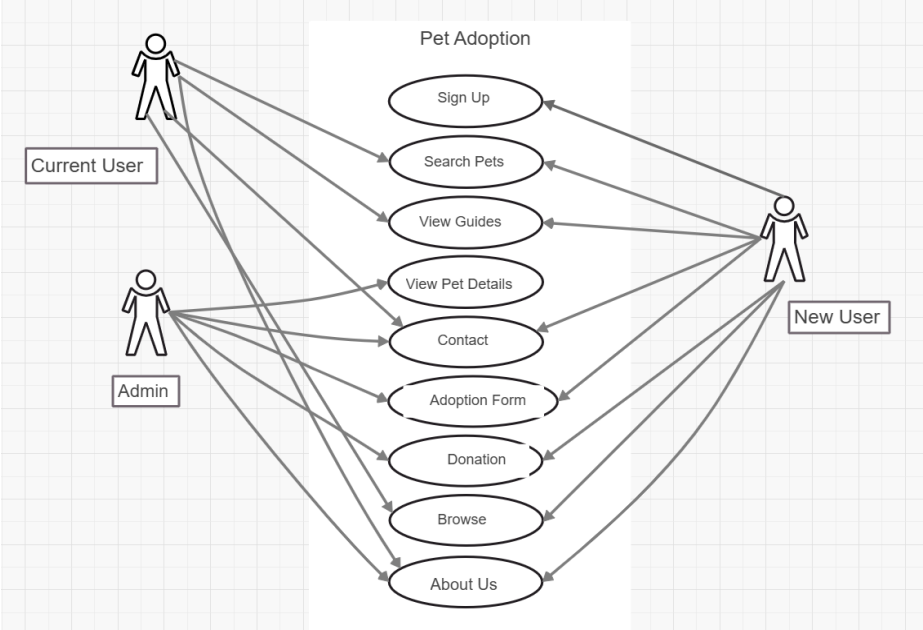
- Users must be able to register/login.
- Users must be able to view and select pets.
- Users must be able to submit an adoption form.

System Requirements

- The website must support user authentication.

- Users must be able to view their selected pets.
- The system should store user's personal details and preferences.

5. Software Requirements Analysis:

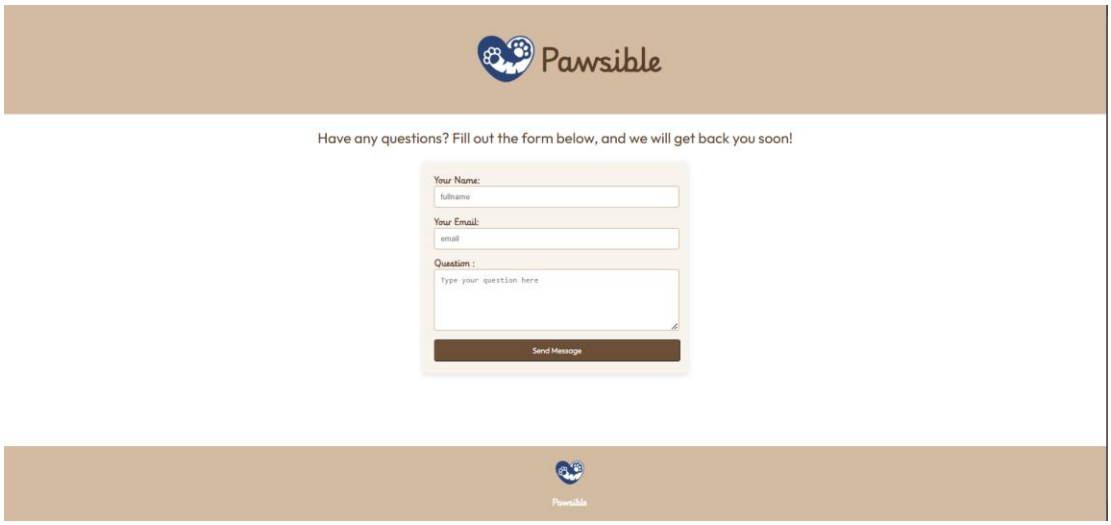


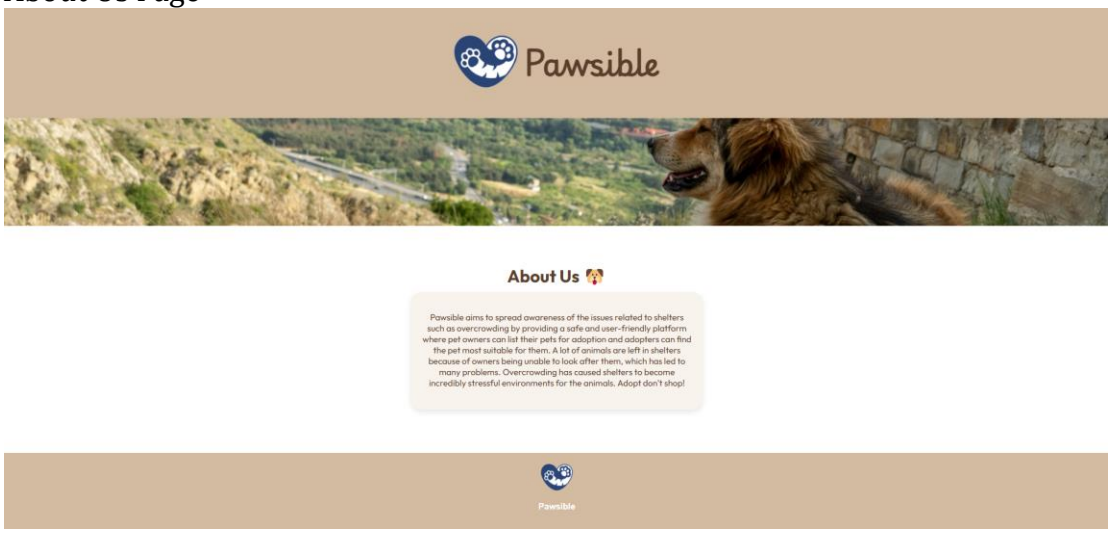
User Register	• Enters personal details. • System verifies input • If verification is successful, system creates a new account • System stores this new user data into database. • If not, system shows details that are saved onto the database already.
Search Pets	• Enters search criteria (breed, age, location etc.) • System looks for available pets from the database • System filters and displays matching pets • User selects pet profile to view its details
View Guides	• Selects a pet care guide • System gets relevant guide information from database

	• System displays the selected guide
View Pet Details	• Clicks on a pet profile • System gets pet details • System displays pet information
Submit Request	• Enters personal details and a message • System verifies input • System sends request to admin of Pawsible • System displays confirm message
Browse Website	• Accesses Homepage • System displays pets, guides, adoption information etc. • Click different sections to explore more details
Submit Adoption Application	• Selects a pet and clicks adopt • System will display adopt form • User fills out important details • System verifies input • Stores application in the database • Reviewing application by admins of Pawsible
Donation	• Selects donation amount • Displays payment form • User enters payment details • System confirms and stores in database • Displays confirm message
About Us	• Displays information about Pawsible and its history • Gives users an introduction of what the goals of Pawsible are.

6. Graphical User Interface Design

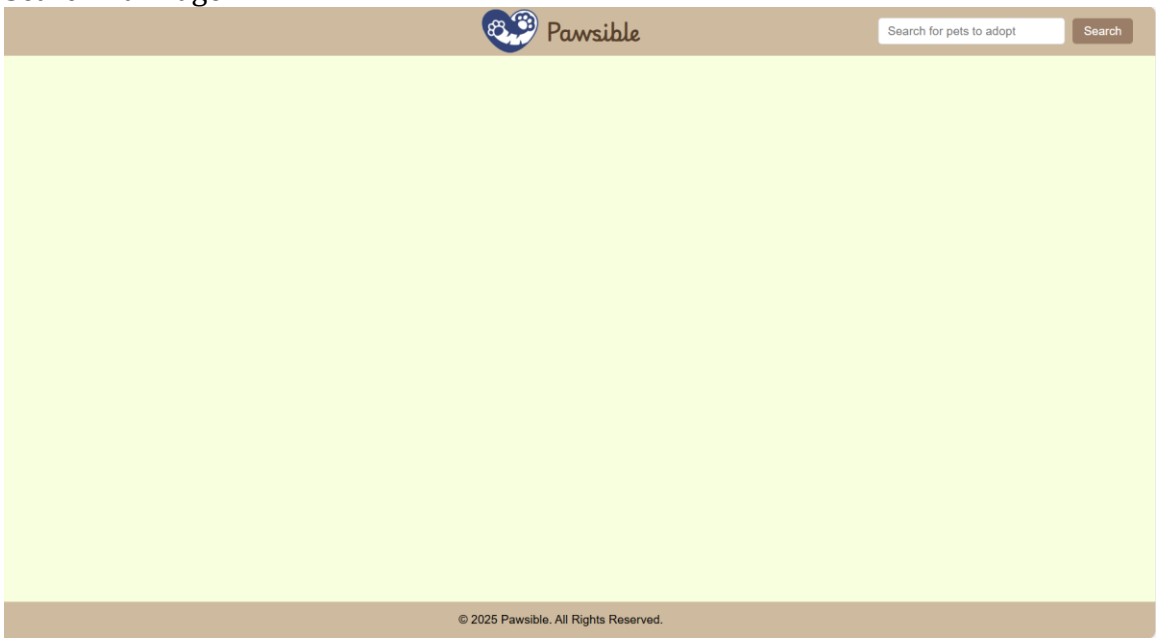
- Home Page
- Contact Page

- 

- About Us Page
- 

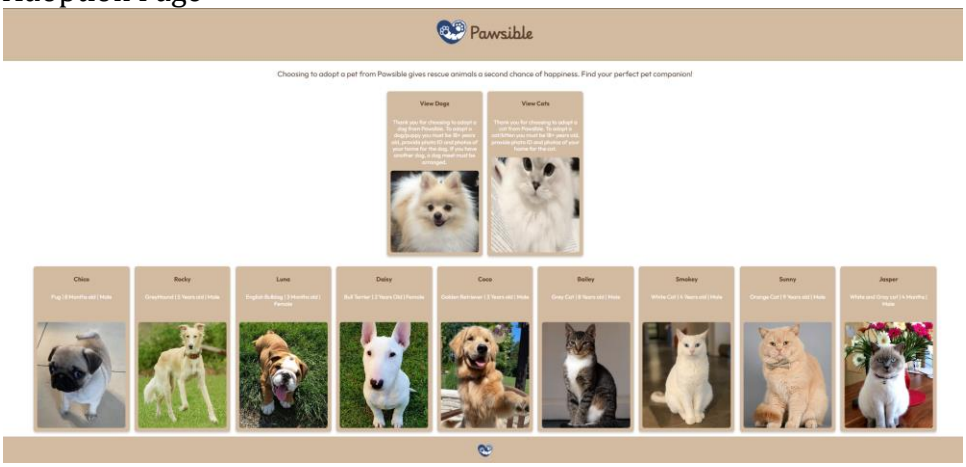
- User Registration Page

- Search Bar Page



- Donation Page
- PetCare Guide Page

- Adoption Page



7. Technical Requirements and Feasibility:

- Frontend: HTML, CSS
- Backend: PHP
- Database: MySQL

- The website will be completed during the current time frame
- Future implementation on database.

8. Conclusion

Pawsible is a website designed to connect potential pet adopters with animals in need of homes, by admins who help manage the process. Currently, the project is focused on laying the foundation for future development, including improving the user interface (UI) and conducting a requirements analysis to identify key features.

While the starting phase focuses on core functionalities, there are plans to add more features in the future, such as better search filters and enhanced communication tools. With a clear plan, Pawsible is an achievable project that will continue to grow and improve, providing an easy adoption experience for both adopters and pets.