

# Group 6 Presentation : Assignment 1

## Team Members

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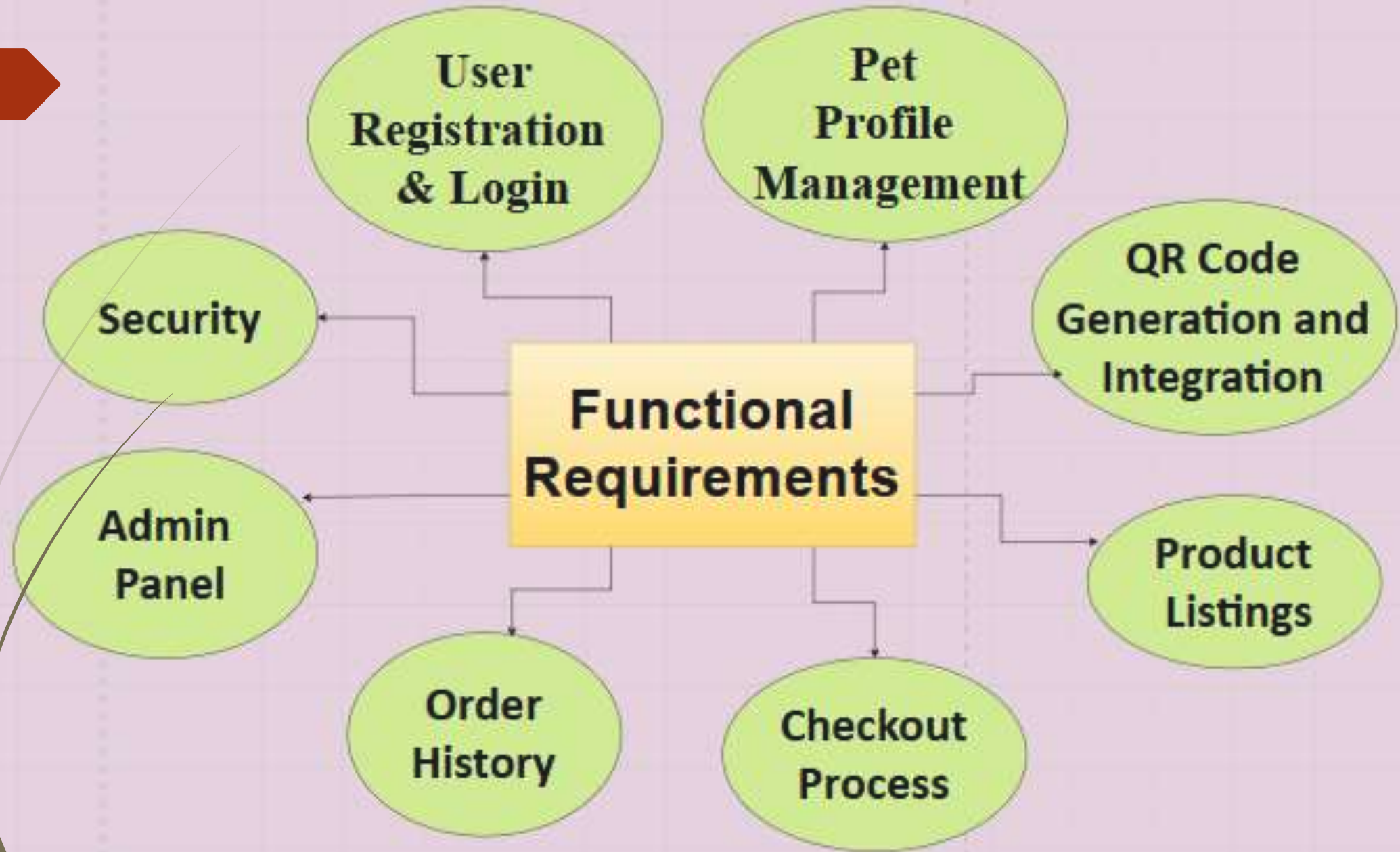
# QR Pet ID Tag Store - Website Development Overview

*Technologies to be Used for Ongoing Development:*

**Frontend:** HTML, JavaScript, JQuery, Bootstrap

**Backend:** C# (ASP.NET Core)

**Database:** MySQL



# Functional Requirements:

## 1. User Registration & Login:

- Users should be able to **register and log in via the QR code system**.
- After scanning the QR code on the Pet ID tag, users should be redirected to a registration or login page.
- Users must provide **pet details, contact information, and emergency contact**.
- QR code generated for each pet should be unique and linked to the user's profile

## 2. Pet Profile Management:

- After registration or login, users should be able to **edit and update their pet's profile**.
- Pet profile includes the **pet's name, age, breed, medical info, and emergency contacts**.
- Users should be able to add images, medical conditions, etc.

### 3. QR Code Generation and Integration:

- Unique QR codes need to be generated for each pet.
- Each QR code should be tied to a **unique pet ID**.
- When a user scans the QR code, it will link to their pet's profile.

### 4. Product Listings:

- The e-commerce store **should showcase different pet ID tags**.
- Users should be able to view wide range of pet products including food, collars, leashes, grooming tools, toys, beds, and health supplements to cater to every need of the pets.

### 5. Checkout Process:

- Secure checkout with **payment gateway integration (e.g., Stripe, PayPal)**.
- Users should be able to add items to their cart and proceed to checkout.
- **Order confirmation email with order details and estimated delivery time.**



## 6. Order History:

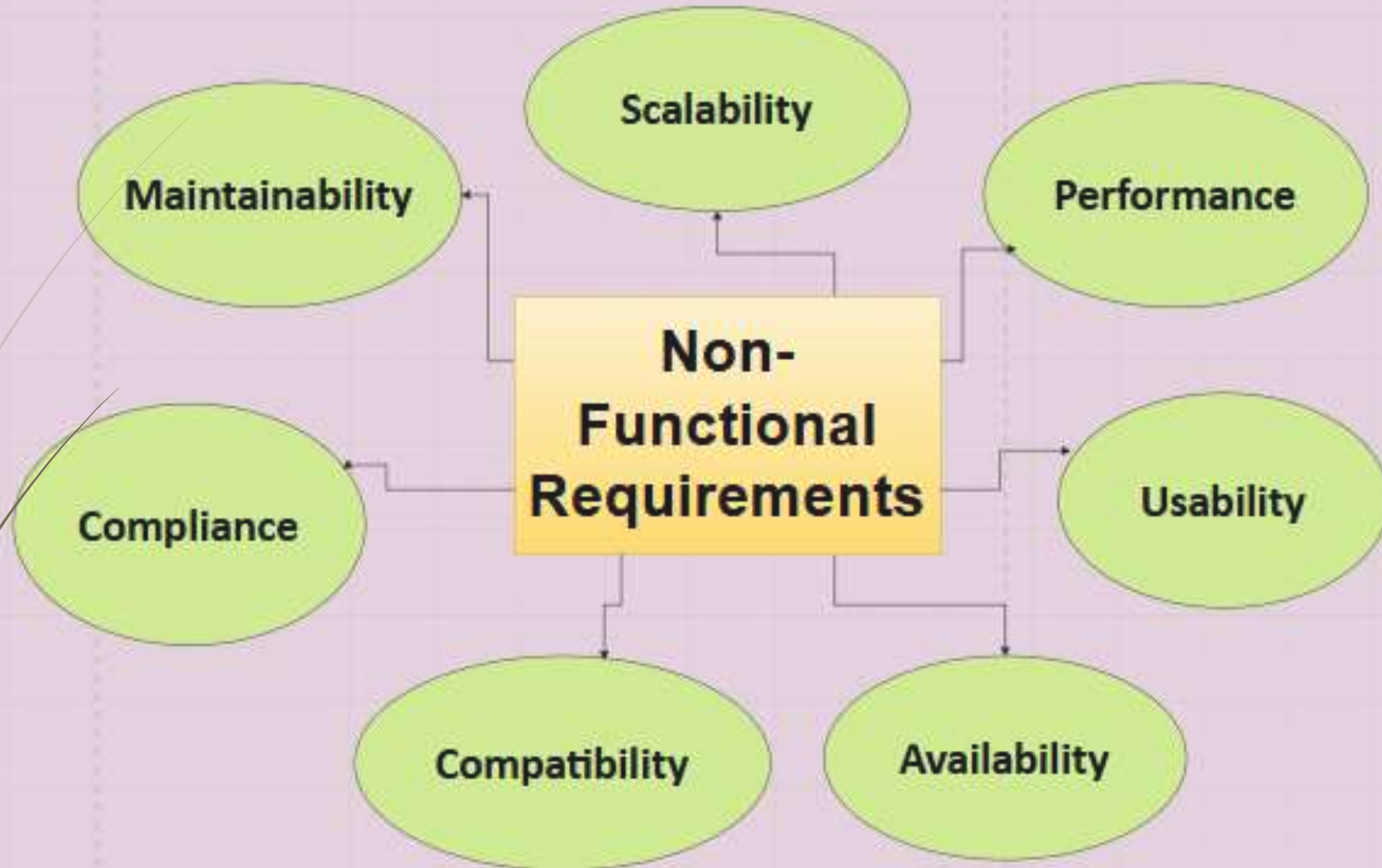
- Users should be able to **view past orders, track status, and repeat purchases.**

## 7. Admin Panel:

- Admins should have a panel to **manage products, view orders, and manage users.**
- Admins should be able to view QR code registrations, orders, and manage inventory.

## 8. Security:

- User data and **payment information must be encrypted.**
- QR code system should be secure to prevent unauthorized access.



# Non-Functional Requirements:

## 1. Scalability:

- The system should be able to **handle large numbers of users, especially during peak times.**
- Should be able to handle thousands of QR code generations and scans.

## 2. Performance:

- **Fast load times for product listings, user dashboards, and pet profiles.**
- Quick and responsive QR code generation and scanning process.

## 3. Usability:

- The website must be easy to use for a wide range of users, including **pet owners and administrators.**
- The site must be **mobile-friendly and responsive.**



## 4. Availability:

- The website should be **highly available, with minimal downtime.**
- Regular backups and disaster recovery plans should be in place.

## 5. Compatibility:

- The website should be compatible across **different browsers (Chrome, Firefox, Safari, Edge)** and **must be** optimized for mobile and tablet devices.

## 6. Compliance:

- The system must adhere to relevant **privacy regulations (GDPR, CCPA, etc.)** when **handling user data.**

## 7. Maintainability:

- The system should be **modular, easy to maintain, and upgrade.**
- Code quality should be high, with proper documentation.

# USE CASE DIAGRAM

- **SYSTEM:** QR Pet ID Tag Store

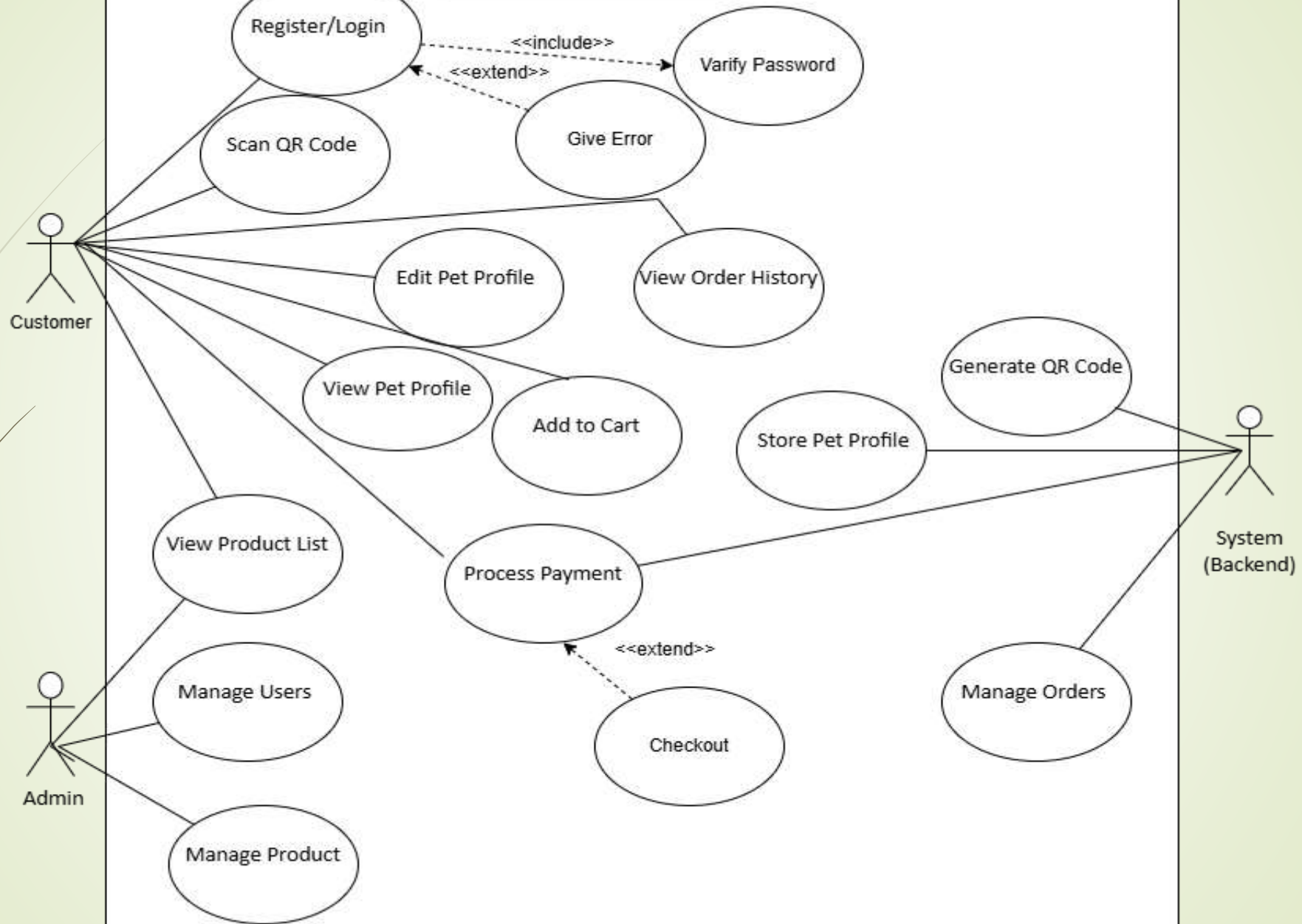
- **ACTORS:**

1. Customer – End-users who will register their pets, purchase pet ID tags, and manage their pet profiles.
2. Admin – Responsible for managing products, orders, and viewing the users' pet profiles.
3. System – This represents the backend and integrations, like generating QR codes and managing profiles.

- **USE CASES:** Register/Login. Scan QR Code , View Pet Profile , Edit Pet Profile, View Product List , Add to Cart , Checkout & Pay, View Order History, Generate QR Code, Store Pet Profile, Process Payment ,Manage Orders, Manage Users, Manage Products, View Orders

RELATIONSHIPS: include , extend

## QR Pet ID Tag Store



# CLASS DIAGRAM

