

# MyPetGuide

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## Overview

MyPetGuide is a web application that helps users discover which type of pet (Dog, Cat, or Bird) best fits their lifestyle and preferences. Guests can browse animals and set preferences, however their results will not be saved if they leave the site. Registered users gain access to additional personalization features, such as saving favorite animals.

## User Roles

- Guest: Can browse animals, set temporary preferences, and view general matches.
- Registered User: Can set and save preferences, view personalized results, and save favorite animals.

This distinction is modeled as an ISA hierarchy: User ISA Guest | Registered.

## Animals and Preferences

Animals are central to the system, with attributes such as species, size, and temperament. Each animal belongs to a subtype: Dog, Cat, or Bird.

Users can define Preferences, which are further divided into two categories:

- Essential (must-have requirements, e.g., hypoallergenic, small size).
- Preferred (nice-to-have traits, e.g., playful temperament, active level).

The system compares preferences with animal traits to determine which pets fulfill user requirements. Registered users can also add pets to a Favorites list.

## User Interface & Experience

The interface is clean and minimal:

- A Start button launches a questionnaire with drop-down menus or sliders.
- Results show animals that best match the user's inputs.
- Registered users may save favorites; all users may reset the questionnaire.

Error Handling: Invalid actions trigger clear feedback. Missing fields are highlighted in red, contradictory preferences prompt corrections, and guests trying to save favorites are asked to register.

## Purpose

By structuring User, Animal, and Preference data in a relational database, MyPetGuide provides accurate recommendations while keeping the experience simple. The system balances easy exploration for guests with advanced personalization for registered users.

## ER Diagram

