# Design Specification

Design Specification for the Greyhound Pets of America Greater Orlando Web Application

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## Description

Today, the Greyhound Pets of America – Greater Orlando (GPAGO) website is very time consuming and tedious to maintain. The static html web page listing greyhounds available for adoption must be manually updated. Furthermore, information on greyhounds is tracked using Microsoft Excel spreadsheets. Maintenance of these spreadsheets is also tedious and the usefulness of the information is not optimal.

## Objectives

This project will deliver a web based application that will allow records of greyhounds that are available for adoption to be entered and updated. Access to this application will be over the internet through a web browser. This project will only focus on the dynamic content and the management of it. This project will not focus on the overall web site content or layout.

The primary objective of this project is to reduce the time and effort required by staff to enter and update greyhound records that are displayed on the GPAGO web site.

The system should be designed such that it may evolve to become a complete record keeping system for greyhound information.

## Technical Overview

* The solution will be a web based application written in java.
* Servlets and Jsp will be used to render HTML and Javascript to the client
* Tomcat will be used as the Servlet container
* MySql database will be used for persistence
* JPA (Eclipselink) will be used for object-relational mapping
* The architecture will follow the Model-View-Controller (MVC) pattern.
* JPA Entities objects and a facade class will comprise the model.
* Servlets will comprise the controller.
* Html, Jsp, and Javascript will comprise the view.
* The application is developed entirely using Java. The system requires a Java Runtime Environment version 1.7 or greater.

## Architecture

## Data Dictionary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Greyhounds - Table that contains greyhounds available for adoption** | | | | | |
|  | **Name** | **Type** | **Size** | **Source** | **Purpose** |
|  | id | Long Integer | 4 |  | Primary Key of Greyhound record |
|  | name | varchar2 | 80 |  | Name of greyhound |
|  | racename | varchar2 | 80 |  | Race name of greyhound |
|  | isCatFriendly | Yes/No | 1 |  | Is dog friendly to cats? |
|  |  |  |  |  |  |

Other fields and entities tbd

## UI Overview

(TBD)

* Login Screen
* Table Listing Greyhounds available for adoption
* Management Screens