



Hexagon Animal Shelter

INFO-I211-21169

Final Project Proposal

Group 14

Sarah Harris

Giovonni Taylor

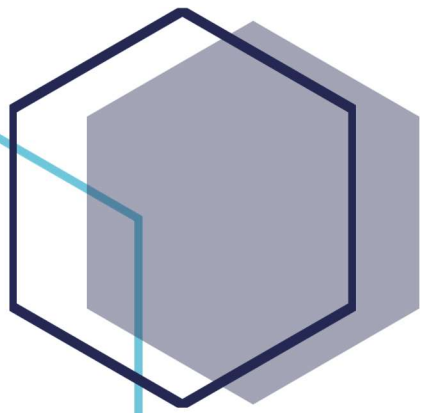


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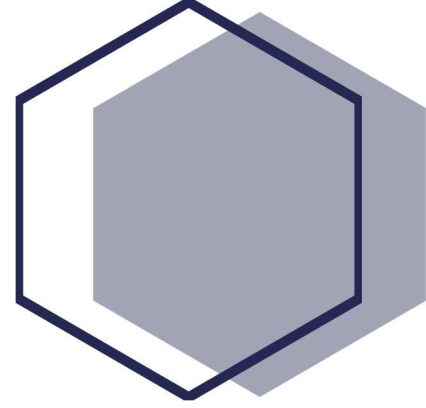
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Part 1

Group 14 Final Project Proposal

Hexagon Animal Shelter Website



Overview

Hexagon Animal Shelter Website

The Problem

Hexagon Animal Shelter is in need of assistance. Animal shelters all over need people to adopt the animals they have rescued, and Hexagon is no exception. Their shelter can fill quickly, so they need a cohesive way to keep track of which animal guests are currently residing in their facility. Hexagon is also looking for a way for people to learn more about their shelter. They long to see each and every animal find its forever home..

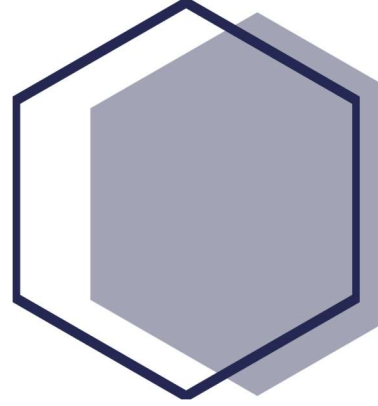
The Solution

We have a solution for Hexagon Animal Shelter. Together, Group 14 and Hexagon have chosen to create a website and web application to solve their problems. The advantage to having this information available online is that potential adopters can view animals that are currently in the facility as well. For this reason, the website will allow for user profiles to be created for public users, where they can make appointments to visit the animals and potentially adopt them. The end result is a database of all of the animals living in Hexagon as well as an adoption scheduling tool available to the public.

Technical Requirements

For this dynamic website, Group 14 will implement an MVC design approach to create it. There will be a Model, View, and Controller for both the animal data as well as the user data. Administrator users will be able to edit data dynamically via the site. It will be programmed with PHP, SCSS, CSS, JavaScript and HTML. The data will be stored into a MySQL database, accessed by using PhpMyAdmin.





Group 14

Members and Responsibilities

Group 14

Group 14 is comprised of two members, Sarah Harris and Giovonni Taylor. They will be completing this Final Project for I211 together.

Sarah Harris

Sarah is a sophomore in SOIC's Media Arts and Science Program specializing in Web Design and Development. She is also minoring in Informatics at SOIC and minoring in Information and Computer Technology at the Purdue School of Engineering at IUPUI. Sarah is aspiring to be a front-end developer, creating dynamic and interactive websites and web applications that are easy to use (as well as easy on the eyes).

Responsibilities

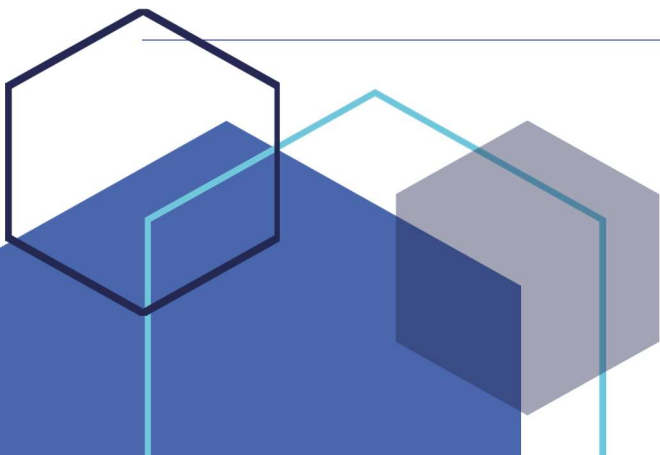
Due to her skill set, Sarah has chosen to be in charge of the functionality of the View parts of the MVC design. In addition, she is responsible for the design, imagery, animal/site data, and most of the documentation for this project. As all group members are required, Sarah will help Giovonni with any issues.

Giovonni Taylor

Giovonni is an Informatics student minoring in Biology at IUPUI. Interests include video games, working out, and browsing YouTube. After school, Giovonni intends to secure a position at Roche.

Responsibilities

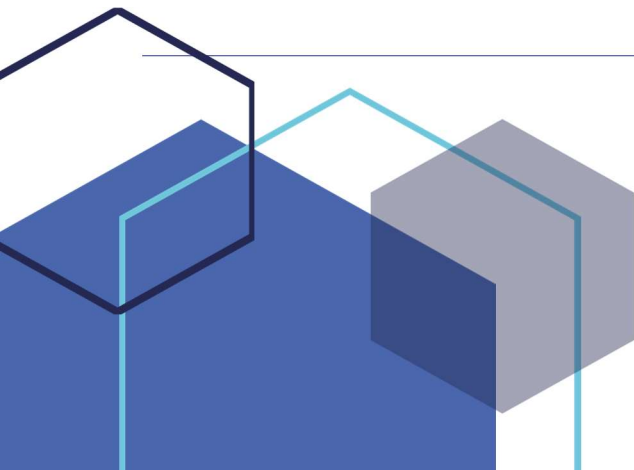
Due to his skill set, Giovonni has chosen to be in charge of the functionality of the Model and Controller parts of the MVC design. In addition, he is responsible for the database setup, model table for documentation, and part of the MVC diagram for this project. As all group members are required, Giovonni will help Sarah with any issues.



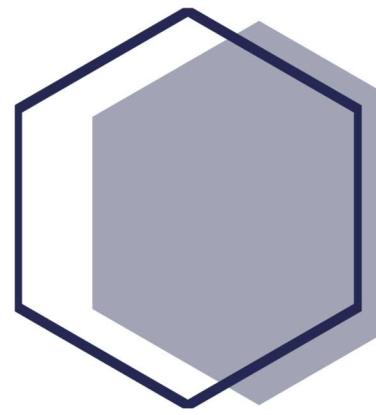


Group 14 Final Project Documentation

Hexagon Animal Shelter Website



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Animal Adoption Application

Functionality of Hexagon Animal Shelter Website

List of Features and Functions

The Animal Adoption Application in the Hexagon Animal Shelter Website will complete two main functions: regulation of animal data and regulation of user data.

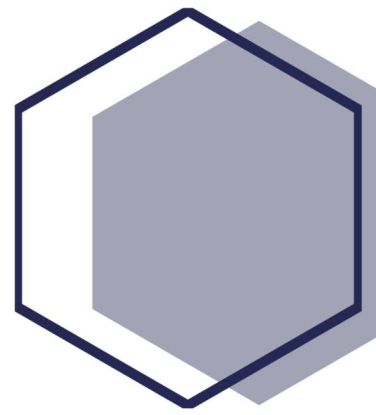
- Visit home page
- Visit about page
- Visit contact page
- Visit all animals page
- Visit each animal profile page
- Search animals by name or breed
- Register user
- User Login
- User accounts:
 - View user profile
 - Edit user information
 - Users must be at least 18 years of age to adopt or create a profile
- Administrator User Additional Features:
 - View all users
 - Edit animal profile
 - Delete animal profile
 - Add animal profile
- Handle errors
 - Let users know if errors occur
 - Stop database transactions if errors occur

Data Structure

Below is the structure of animal and user data that will be used in the Database

User Data

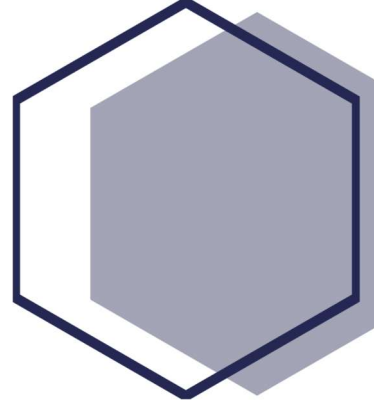
<i>Id</i>	Username	Password	Firstname	Lastname	Email	Phone	Birthday	Admin
<i>auto</i>	sh39	Sh39	Sarah	Harris	sh@mail.com	1231231	04/02/1999	1
	giovonniT	Gt789	Giovonni	Taylor	gt@mail.com	3213213	09/07/1997	1
	ranChang	Php123	Ran	Chang	rc@mail.com	7897890	09/02/1979	1
	tubaGuy	123Tuba	Jacob	Kopis	jk@mail.com	4564567	12/19/1999	0



Animal Adoption Application (Continued)

Functionality of Hexagon Animal Shelter Website: Animal Data Structure

Animal Data								
Id	Name	Type	Breed	Sex	Age	Fee	Image	Description
auto	Blue	Dog	Chocolate Lab	M	12	15	www/img/blue.jpg	Friendly old dog, not very energetic, but loyal.
	Fred	Dog	Chocolate Lab	M	7	20	www/img/fred.jpg	Very friendly, but aging. Good with kids.
	Jojo	Dog	Blue Heeler	F	4	30	www/img/jojo.jpg	Very energetic and friendly.
	Gabby	Dog	Blue Heeler	F	3	35	www/img/gabby.jpg	Somewhat energetic and shy.
	Dakota	Dog	Australian Shephard	F	1	40	www/img/dakota.jpg	Very energetic and friendly. Protective of trusted people.
	Jack	Dog	Boston Terroir	M	3	30	www/img/jack.jpg	Very hyperactive, but tires easily. Does not like being away from trusted people.
	Truman	Dog	Golden Retriever Doxin Mix	M	5	20	www/img/Truman.jpg	Needs a lot of attention, but overall not too energetic. Friendly, but mischievous.
	Scooter	Dog	Australian Shephard Blue Heeler Mix	M	4	30	www/img/scooter.jpg	Very well behaved. Possibly trained to be a service animal in the past. Very sweet, but energetic at times. Great dog for families.
	Whiskers	Cat	Calico	F	6	20	www/img/whiskers.jpg	Friendly cat who loves to play.
	Lara	Cat	Siamese	F	8	15	www/img/lara.jpg	Older cat that doesn't need much attention.
	Peaches	Cat	Siberian	F	2	40	www/img/peaches.jpg	Playful kitten who loves kids!
	Pan	Cat	American Shorthair	M	1	30	www/img/pan.jpg	This kitten is very energetic and playful. Very sweet and good with children.
	Benny	Cat	Bengal	M	9	15	www/img/benny.jpg	This cat is older and is not advised for homes with kids.
	Mana	Cat	Egyptian Mau	F	5	30	www/img/mana.jpg	Shy, reserved cat with normal energy levels. Perfect for owners who are busy.
	Fluffy	Cat	Ragdoll	F	4	35	www/img/fluffy.jpg	Younger, energetic cat.
	Kyle	Cat	Manx	M	12	15	www/img/kyle.jpg	Mischievous old cat. Very fun to play with.
	Rachel	Cat	Ocicat	F	1	25	www/img/rachel.jpg	Kitten who is feisty.
	Gwen	Cat	Silver Tabby	F	1	30	www/img/gwen.jpg	Kitten who is sweet.
	Dorothy	Cat	Havana	F	2	20	www/img/dorothy.jpg	Kitten with an attitude. Very



Classes

Animal Adoption Application Classes: Model, Controller and Router

Classes

For this project, there are classes within a View, Model, and Controller, as per the MVC design. Two variants will be for both, as there is user and animal data.

Model Classes

These model classes will be models of user and animal. Users have the user data, while animals have the animal data. This data is stored in the database and will be called via these models.

Model Classes		
Animal		
Name	Location	Description
animal.class.php	model/animal.class.php	Defines the Animal class
animal_model.class.php	model/animal_model.class.php	The model class for Animal object
User		
Name	Location	Description
user.class.php	model/user.class.php	Defines the User class
user_model.class.php	model/user_model.class.php	The model class for User object

Controller Classes

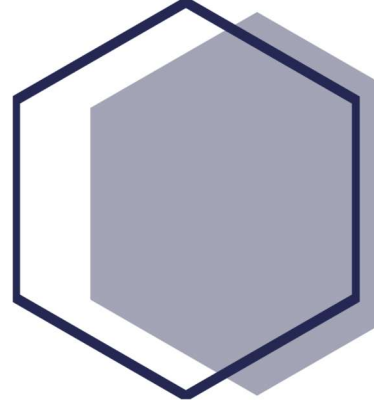
There will be two controllers for this application, one controlling matters of animal data, and one controlling matters of user data.

Router Class

The router will direct to the correct controller depending on which data the user is trying to interact with.

View Classes

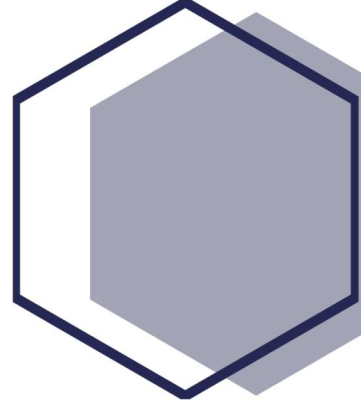
The view classes control what the user sees. According to what they are doing, there will be a view for home, about, contact, user profile, all animals, and animal details. On the following page, a full table of all the classes can be found



Classes (Continued)

Animal Adoption Application Classes: View

View Classes		
Main		
Name	Location	Description
Index	view/index.class.php	Parent class of all View classes
Home	view/home.class.php	Home Page
About	view/about.class.php	About Page
Contact	view/contact.class.php	Contact page
Animal		
Name	Location	Description
Index	view/animal/animal_index_view.class.php	Displays all animals
Details	view/animal/animal_details.class.php	Display's a specific animal's details
Edit	view/animal/animal_edit.class.php	Edit an animal's details
Add	view/animal/animal_add.class.php	Add an animal
Delete	view/animal/animal_delete.class.php	Delete an animal
Success	view/animal/animal_success.class.php	Success for adding/deleting/editing
Error	view/animal/animal_error.class.php	Any error occurs
User		
Name	Location	Description
Index	view/user/user_index_view.class.php	Home page after user logs in
Login/Register	view/user/user_login.class.php	Login/register user
Details	view/user/user_details.class.php	Details of the user
Edit	view/user/user_edit.class.php	Edit user details
Delete	view/user/user_delete.class.php	Delete user account
Success	view/user/user_sucess.class.php	Success for adding/deleting/editing
Error	view/user/user_error.class.php	Any error occurs



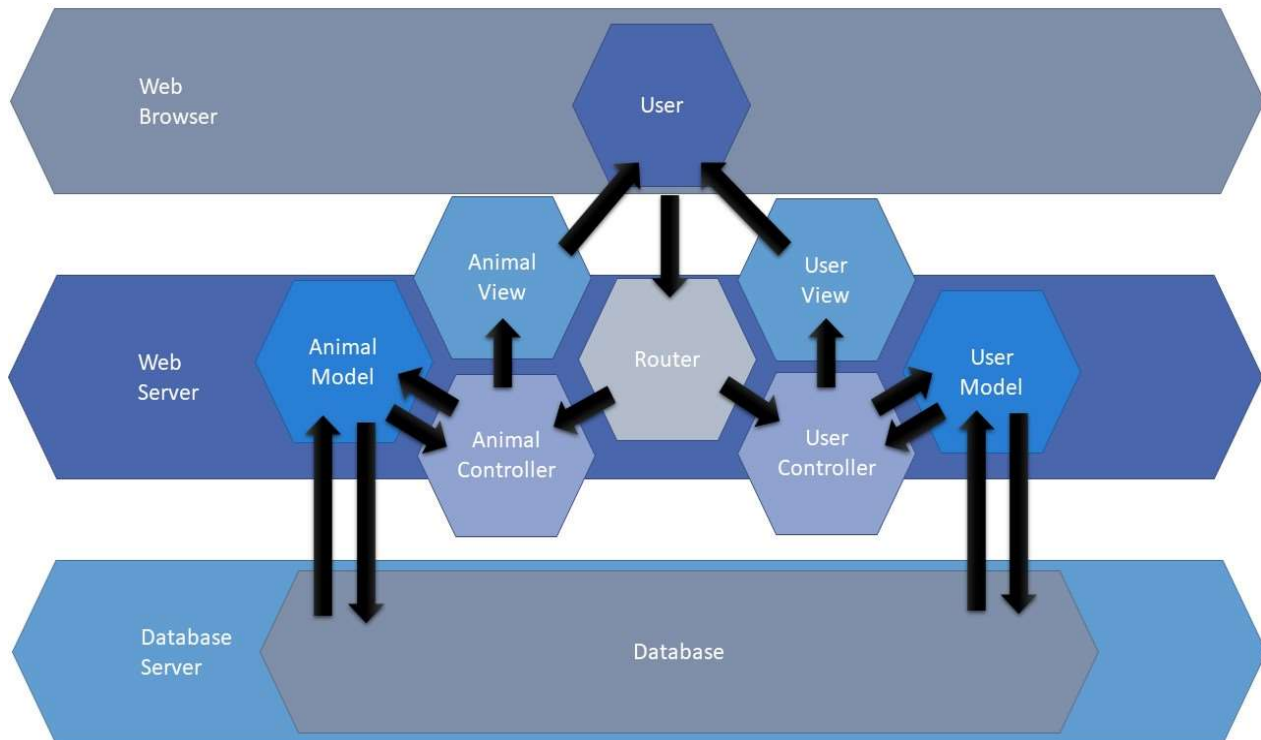
MVC Diagram

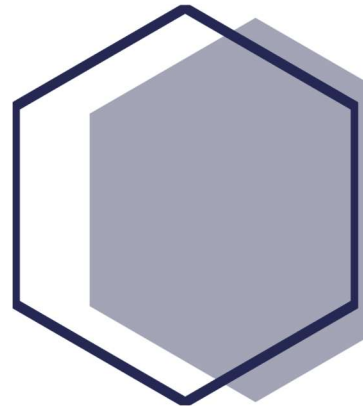
Animal Adoption Application MVC Structure

MVC Structure

On the Insert tab, the galleries include items that are designed to coordinate with the

MVC Diagram



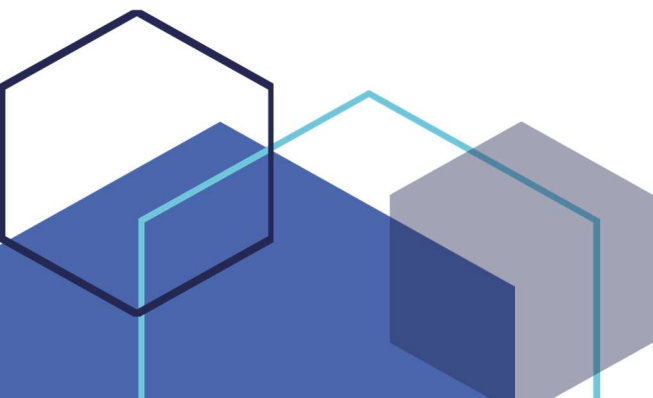


Error Handling

Hexagon Animal Shelter Website

Error Handling

On completion, thoughts will be displayed.



Feedback

Group 14 Thoughts on Final Project

Sarah Harris

On completion, thoughts will be displayed.

Giovonni Taylor

On completion, thoughts will be displayed.

Group 14 Final Thoughts

On completion, thoughts will be displayed.

