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Project : Pet Adoption Platform

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Thank you, Sir, for your guidance and mentorship.

Abstract:

The growing number of deserted and stray animals all over the world has turned into one of the top problems, underlining the importance of the establishment of platforms for the provision of pets to those in need. This project showcases the creation of a web-based Pet Adoption website that makes it easier to match potential pet owners with animals that are in need of homes. The site is built on a MySQL database for backend data management and therefore allows the user to explore the list of pets available, and on the basis of several criteria, filter the search result and submit adoption applications.

The platform has been built in such a way that it is quite user-friendly to ensure the user experience is amiable while navigating and accessing the site is easy. There are also administrative functionalities that are developed for the scheduling of pet advertisements, user registration, and request for adoption, among other things, which contribute to efficient operations. This project not only makes the whole adoption procedure much easier but also educates people about proper pet ownership and animal care. The power of the website is proved by its handiness and user reviews, thus making a really significant contribution to shelters and pet owners as well.

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1. INTRODUCTION

1.1 Overview

The pet adoption process is an important way to solve the problem of pets without homes. There are numerous animals who are eagerly waiting for their new owners and therefore, it is compulsory to design a site which is user-friendly and useful for the potential pet owners. The suggested project is a Pet Adoption Website that will use a MySQL database to control and present pet listings thus creating a link between animal shelters and potential adoptive parents. The website offers an all-inclusive platform, thereby it aims to make the adoption procedure more efficient, to excite users, and to make people more concerned with pet ownership.

1.2 Problem Statement

Many animal shelters and rescue organisations have problems with finding good homes for pets and they can not deal with pet information properly. The old ways of adopting pets usually come with manual activities that are inefficient and give no chance for potential pet lovers to adopt. The proposed enabling system enables the users to search for pets in the shelters, fill in the adoption form online, and contact the shelters to help in circumstances of a shortage of shelter places.

1.3 Objectives

The main tasks of this project are:

- To create a website that would make a user-friendly search for adoptable pets possible Pet Adoption Website.
- To set up a MySQL database that will gather and manage information from pets, shelters, as well as users.
- To offer the features of the site like the ability to filter and search pets by specific criteria like breed, age, and size of the animals.
- Form the function for users to make applications and queries about adoption directly through the website.
- Equip animal shelters with an administrative dashboard that allows them to manage pet listings, user registrations, and adoption requests.

2. Literature Review

2.1 Introduction

This review of related literature determines the function of the technology in increasing the pet adoption processes through internet-based websites. The research already available according to the previous studies has drawn a conclusion that the use of such systems is useful in gaining adoptions and thus, the animal welfare factor can be improved.

2.2 Existing Systems

Numerous studies have focused on online pet adoption platforms, noting their impact on shelter operations:

- Online Adoption Platforms: O'Neill et al. (2015) established that adoptions become increasingly efficient with the involvement of online platforms, which in turn, provide information about the pet like its profile and filtering options, finally capturing the attention of users.
- User-Centred Design: According to Miller and Lien (2018), the core architecture of online adoption systems lies in making the systems user-centric which improves navigation as well as satisfaction, and consequently increases the adoption rates.
- Database Management: Koller et al. (2019) stressed the fact of MySQL's database efficiency in managing large datasets accurately so that the information of pets and adopters could be precisely recorded.

2.2.1 Benefits of Online AdoptionPaws et al. (2016) indicated that the transparency of online systems and their accessibility directly contribute to a greater degree of awareness, thus, adopters are better informed, and animal welfare outcomes have improved.

2.2.2 Community EngagementJones and Smith (2020) said that online platforms help neighbours build a community where they can discuss on forums and social networks which in turn have created a strong network for adopters and shelters.

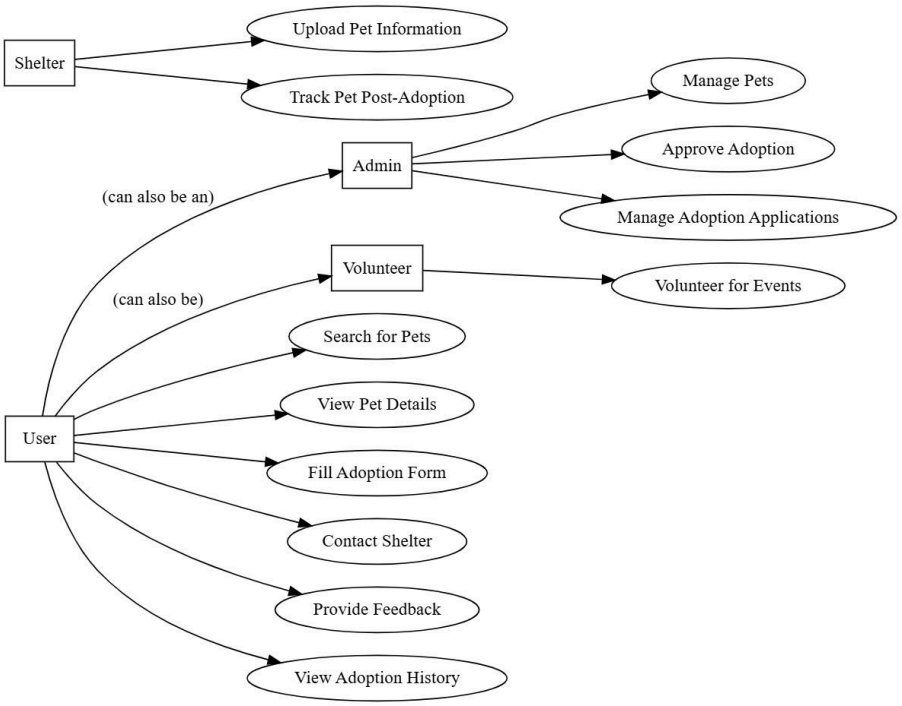
2.2.3 ChallengesGarcia and Thompson (2017) pointed out issues such as the wrong presentation of pets and insufficient follow-up which must be overcome so that the process of adoption will become more effective.

2.3 Summary

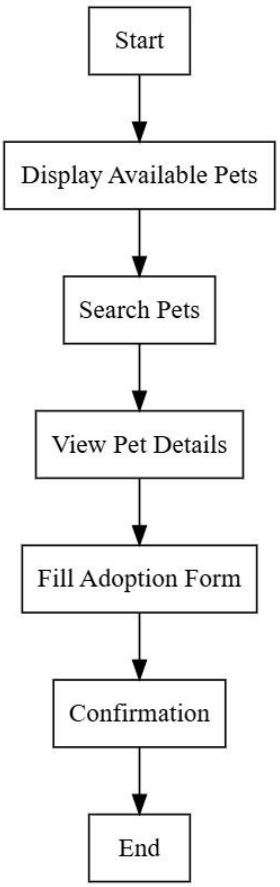
Literature mentions that online pet adoption systems may successfully be the cause of the improvement of the adoption process due to technology and effective database management. This project intends to utilise these concepts to create a thorough pet adoption website.

3. System Design

3.1 Architectural Diagram



3.2 Flow Diagram



4.Technologies Used

4.1 HTML

- Purpose: Give the content and layout of web pages a structure in a machine-readable format.
- Features: Includes a set of elements like headings, paragraphs, lists, and forms that can be used to create a cohesive and easy-to-navigate web structure. Besides, multimedia elements (images, videos) can be added directly to the content to boost user interest.

4.2 CSS

- Purpose: Style and make the visual presentation of the web pages more attractive.
- Features: CSS provides responsive layout through media queries enabling websites to be viewed on different screens. Furthermore, it offers customization of fonts, colors, and layouts which results in better aesthetic appeal and user experience.
-

4.3 PHP

- Purpose: Server-side programming in order to create dynamic content.
- Features: Takes in user data from forms, handles session for verifying users, and dynamically produces HTML. Moreover, it allows easy management of data stored in the MySQL database, as well as, the manipulation of user and pet information.

4.4 MySQL

- Purpose: Database management for maintaining info of pet, user, and adoption.
- Features: Includes query language (SQL) for data manipulation and retrieval in a very efficient manner. The database also supports the relations between tables thus ensuring the correctness of the data and enables complex queries for reports and analytics.

4.5 Apache Server

- Purpose: The web server for the allocation of the application.
- Features: Responds to HTTP requests and serves both static and dynamic content. Provides URL rewriting, authentication, and security modules that demand good performance and scalability of the website.

4.6 Purpose:

Improve client-side interaction and user experience.

Features: Real-time form validation, dynamic display of data without refreshing the webpage, and integration with APIs for example pet search and filtering. Enhances the overall usability of the application.

5.Project Code

1.Home.php

```
<?php
// http://localhost/live/Home/Show/1/2
class Home extends Controller{
	function Home(){
		$GetModel= $this->model("tbl_post");
		$GetPost = $GetModel ->GetPost();

$this->view("master",["Page"=>"home","PageName"=>"Home","Post"=>$GetPost]);
	}
}
?>
```

2.payment.php

```
<?php

class Payment extends Controller{

function Checkout(){

$GetModel= $this->model("tbl_fee");

$GetFee = $GetModel ->GetFee();

$this->view("master",["Page"=>"payment","PageName"=>"Payment","GetFee"=>$GetF
ee]);

}

function Info(){

$name = $_POST["name"];

$phone = $_POST["phone"];

$address = $_POST["address"];

$note = $_POST["note"];

$method = $_POST["method"];

$infocart = $_POST["infocart"];
```

```
$total = $_POST["total"];

$GetModel= $this->model("tbl_payment");

$InsertToDb = $GetModel->WriteInfo($name, $phone,
$address,$note,$method,$infocart,$total);

header( "Location: ../home" );

}

}
```

3.Login.php

```
<?php
class Login extends Controller{
	function Admin(){
		if(isset($_SESSION["email"])){
			header("Location: ../product/productManage");
		}else{
			$this->view("master",["Page"=>"login","PageName"=>"Login"]);
		}
	}
	function CheckLogin(){
		$email = $_POST["email"];
		$password = $_POST["password"];
		$passwordHash = md5($password);
		$GetModel= $this->model("tbl_admin");
		$CheckLogin = $GetModel ->CheckLogin($email,$passwordHash);
		if($CheckLogin == 2){
			$_SESSION["email"]=$email;
			echo 2;
		}else{
			echo 1;
		}
	}
	function Logout(){
		if(isset($_SESSION["email"])){
			unset ($_SESSION["email"]);
			header("Location: ../");
		}
	}
}
?>
```

4.order.php

```
<?php
```

```
class Order extends Controller{
	function OrderManage(){
		if(isset($_SESSION["email"])){
			$GetModel= $this->model("tbl_payment");
			$GetPayment = $GetModel ->GetPayment();

$this->view("master",["Page"=>"order-manage","PageName"=>"Order
Manage","GetPayment"=>$GetPayment]);
		}else{
			header("Location: ../login/admin");
		}
	}
}
?>
```

5.product.php

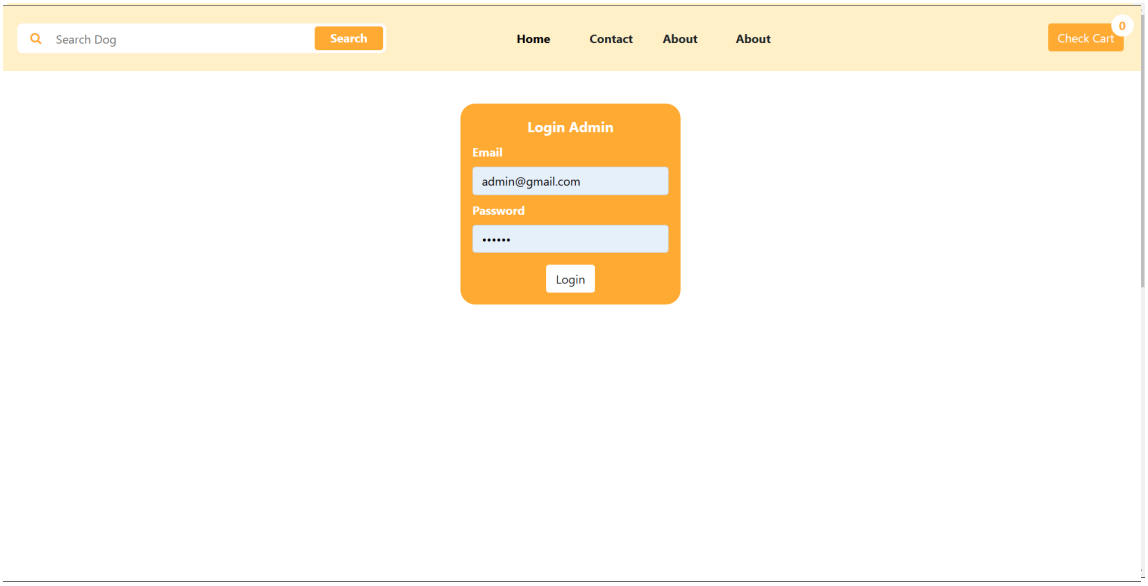
```
<?php
class Product extends Controller{
	function productManage(){
		if(isset($_SESSION["email"])){
			$GetModel= $this->model("tbl_post");
			$GetPost = $GetModel ->GetPost();

$this->view("master",["Page"=>"product","PageName"=>"product","Post"=>$Get
Post]);
		}else{
			header("Location: ../login/admin");
		}
```

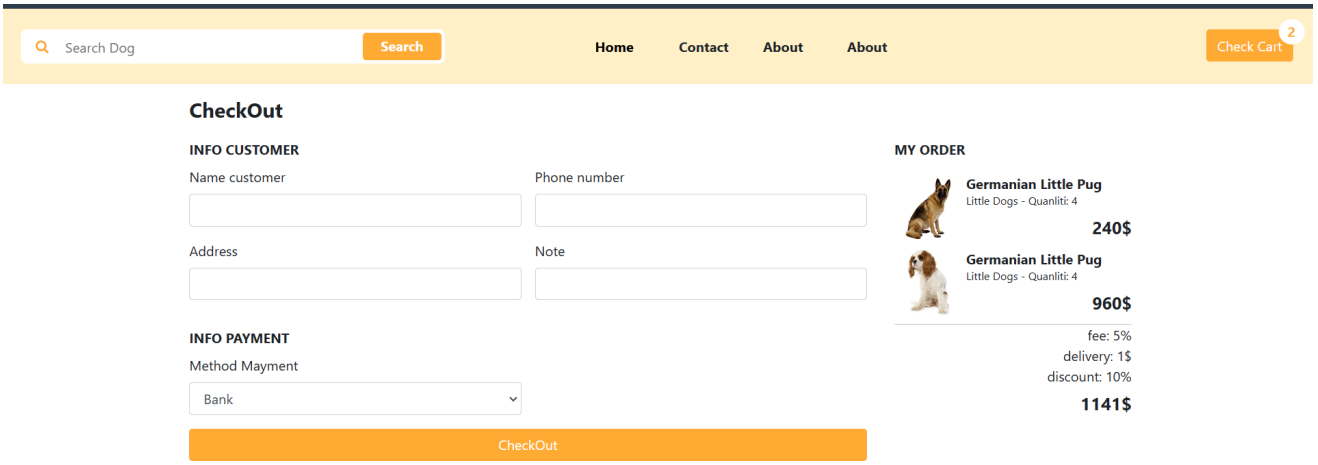
```
        }
        function deleteProduct(){
                $idDelete = $_POST["id"];
                $GetModel= $this->model("tbl_post");
                $GetPost = $GetModel ->DeleteProduct($idDelete);
                header("Location: ../product/productManage");
        }
}
?>
```

7. Result

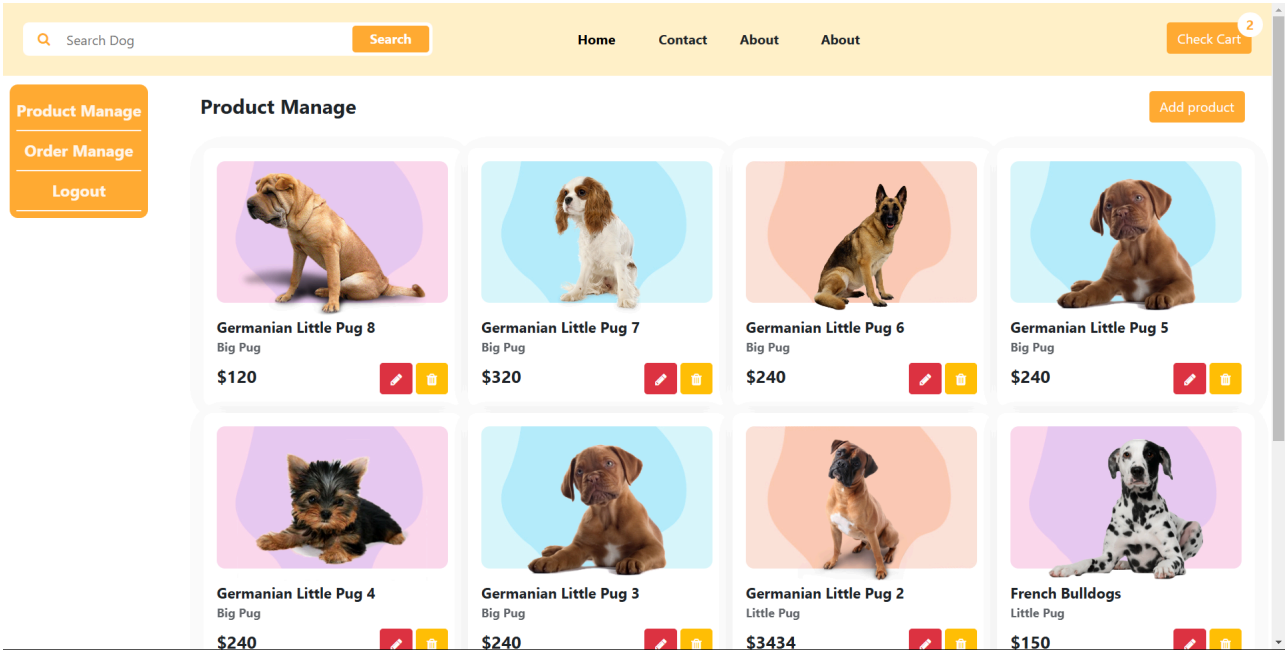
1. Admin Login



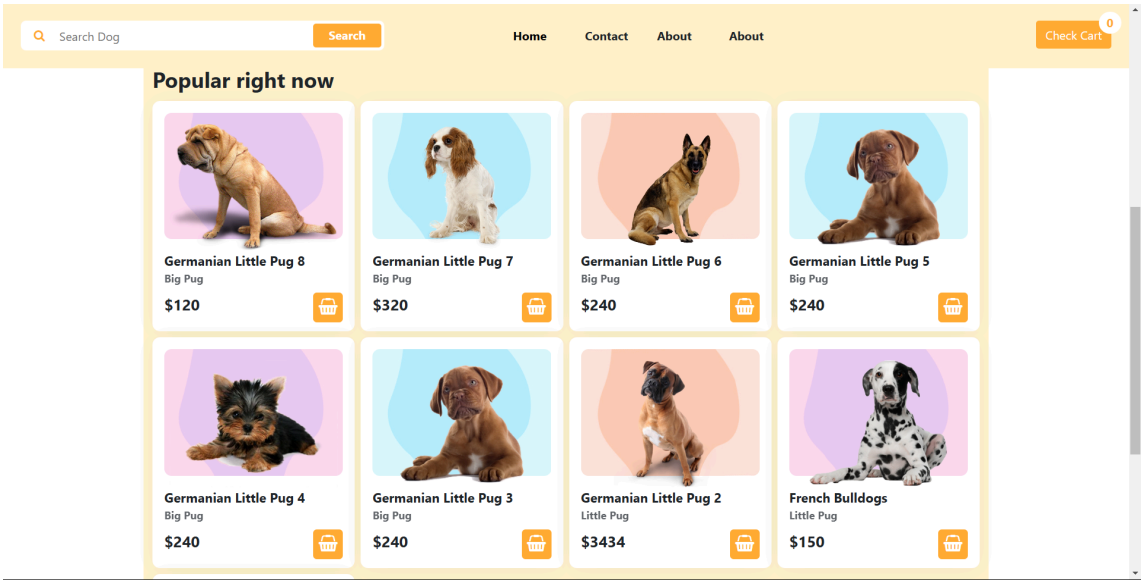
2. Payment Page



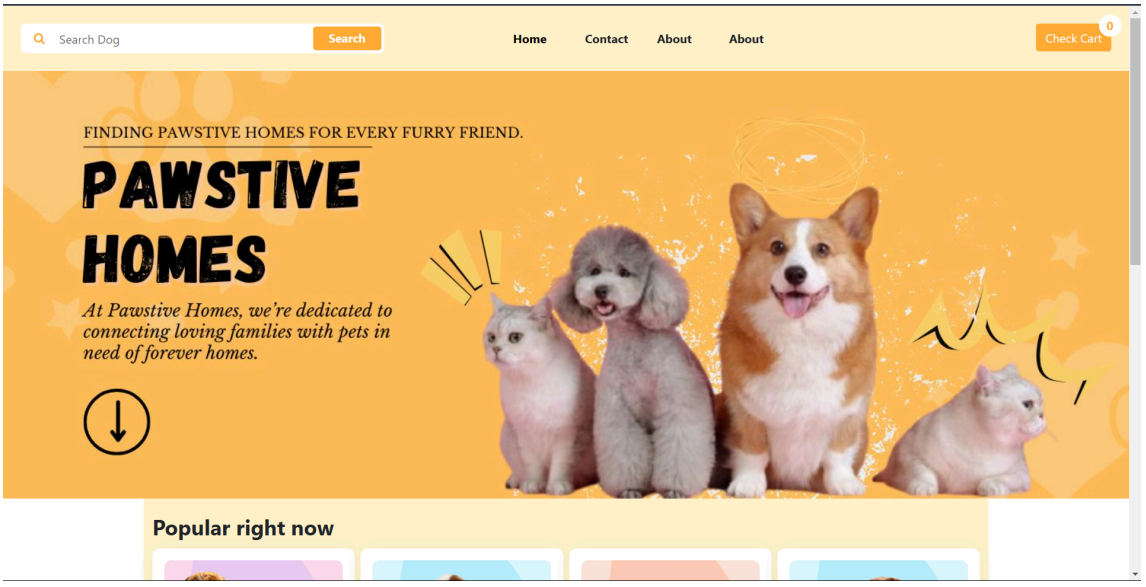
3. Product Manage Page



4.product Page



5. Home Page



8.Conclusion

The **Pawsitive Homes** project demonstrates a practical and effective solution to the growing issue of stray and abandoned animals by streamlining the adoption process. This web-based platform connects shelters and potential pet owners, enhancing the visibility and accessibility of pets in need of homes. By leveraging a MySQL database, dynamic PHP scripting, and an intuitive interface, the website offers a user-friendly experience that simplifies pet search, filtering, and application processes.

With dedicated functionalities for both users and administrators, **Pawsitive Homes** supports a structured, organized adoption pipeline. It empowers shelters with an efficient tool to manage pet listings, user registrations, and adoption applications, reducing manual work and improving response time. Additionally, the platform fosters awareness around pet care and responsible ownership, contributing to positive outcomes for animal welfare.

In summary, **Pawsitive Homes** not only makes pet adoption more accessible and efficient but also strengthens the bond between communities and shelters. This project stands as a valuable contribution to society by helping provide loving homes to animals in need and promoting responsible pet ownership.

9.References

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