LOVLEY PROFESSIONAL UNIVERSITY

Jalandhar Delhi G.T. Road, Phagwara, Punjab



PROJECT REPORT ON

"PETSY: ONE STOP HUB FOR YOUR PETS"

SUBMITTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR THE

AWARD OF THE DEGREE(s)

BACHELOR OF SCIENCE (Hons.) COMPUTER SCIENCE [B.Sc. (Hons.) C.S]

&

BACHELOR OF COMPUTER APPLICATION(Hons.) [B.C.A(Hons.)]

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Punjab

2023-2024

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Declaration by the Supervisor

To whom so ever it may concern

This is to certify that Hemant Kumar [12113824], Ambu Shiva Kumar Reddy [12101508], Rahul Sharma [1215461], Sahal Imran [12115885], Vivek Kumar Singh[12107251] from Lovely Professional University, Phagwara, Punjab, has worked on "Petsy: ONE STOP HUB FOR YOUR PETS" under my supervision. It is further stated that the work carried out by the student is a record of original work to the best of my knowledge for the partial fulfilment of the requirements for the award of the degree, Bachelor's of Computer Application (Hons.), Bachelor's of Science Computer Science (Hons).

Ramandeep Kaur

Assistant Professor

UID: 30438

Declaration by the Students

To whom so ever it may concern

We, Hemant Kumar [12113824], Ambu Shiva Kumar Reddy [12101508], Vivek Kumar Singh[12107251], Sahal Imran [12115885], Rahul Sharma [1215461], hereby declare that the work done by us on "Petsy: ONE STOP HUB FOR YOUR PETS" under the supervision of Mrs. Ramandeep Kaur, Faculty of SCA, Lovely Professional University, Phagwara, Punjab, is a record of original work for the partial fulfilment of the requirements for the award of the degree, Bachelor in Computer Application (Hons.), Bachelor in Science (IT), Bachelor in Computer Application.

Hemant Kumar (12	2113824)
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Sahal Imran (12115885)

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TOPIC APPROVAL PERFORMA

School of Computer Application (SCA)

Program: P22A-HN3::B.Sc. (Hons.) Computer Science

COURSE CODE: CAP463 REGULAR/BACKLOG: Regular GROUP NUMBER: CARGC0020

Supervisor Name: Ramandeep Kaur UID: 30438 Designation: Assistant Professor

Qualification : Research Experience :

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SPECIALIZATION AREA: Networks Supervisor Signature:

PROPOSED TOPIC: PETSY website

Qualitative Assessment of Proposed Topic by PAC				
Sr.No.	r.No. Parameter			
1	Project Novelty: Potential of the project to create new knowledge	6.03		
2	Project Feasibility: Project can be timely carried out in-house with low-cost and available resources in the University by the students.	6.28		
3	Project Academic Inputs: Project topic is relevant and makes extensive use of academic inputs in UG program and serves as a culminating effort for core study area of the degree program.	6.31		
4	Project Supervision: Project supervisor's is technically competent to guide students, resolve any issues, and impart necessary skills.	6.34		
5	Social Applicability: Project work intends to solve a practical problem.	6.03		
6	Future Scope: Project has potential to become basis of future research work, publication or patent.	6.06		

PAC Committee Members				
PAC Member (HOD/Chairperson) Name: Ajay Kumar Bansal	UID: 18715	Recommended (Y/N): Yes		
PAC Member (Allied) Name: Dr. Pallavi Vyas	UID: 18751	Recommended (Y/N): Yes		
PAC Member 3 Name: Dr. Avinash Bhagat	UID: 11002	Recommended (Y/N): Yes		

Final Topic Approved by PAC: PETSY website

Overall Remarks: Approved

PAC CHAIRPERSON Name: 27549::Dr. Ashok Kumar Approval Date: 26 Apr 2024

Acknowledgement

We would like to express our special thanks of gratitude to our teacher Mrs. Ramandeep Kaur (Asst. Professor), who guided us during the whole course of the project as well as the committee members who gave us the opportunity to do this wonderful project on the topic "Petsy: ONE STOP HUB FOR YOUR PETS", which also helped us in doing a lot of research and we came to know about so many new things which finally helped us in completing the project. We would also like to thank our friends for their continued support during the project in various coding and non-coding tasks, we are thankful to all of them.

ABSTRACT

This document outlines how Petsy, a cutting-edge website developed to replace conventional pet adoption process with modern tools in care and related services, is designed. The purpose of this project is to present an alternative to conventional methods with use of advanced and online-based practices. it will strive to attract active community participation in animal welfare, as well as aim at a better experience for the pet adoption, and obsessive planning, decision-making, execution, testing, and inspection.

The work begins by background information of the traditional aspects of the project and compare them in terms of advantages, shortcomings and the problem. The traditional way might be short of ways and our way could be a possible and better solution between steps and phases in solving the traditional ways disadvantages, structuring the project problem and showing our suggested direction. it takes off some with a detailed project working schedule listing the exact parameters and process involved, drawing up a website map and activity planning for a hassle free project realization. In addition to that it describes our result and provides with an extended outlook on the whole process and all the parties taking part therein.

Unlike the process of theory, which converts ideas into operational actions, implementing any idea shall transform the Petsy website into a workable and user-friendly portal. System testing in-depth examines how the website works across numerous usage circumstance with good performance. The entire process of Software Development Lifecycle and Evaluation enumerates successes, mistakes and the points of improvement. The prototype model indications can settle also the mistakes.

This documentation describes collaborative efforts, technical expertise, and visionary aspirations underlying the Petsy project. Through innovation and dedication, the project aims to redefine pet adoption, ushering in a new era of connectivity and care for pets and their human companions

.

This document explains all kinds of effort that do together and what an equipment and people abilities have been laid underground for this project. Also, it tells about the technical part of the Petsy project. The above goal can be achieved through innovation and persistence in offering a refreshing and enhanced platform for pet adoption that will create a redefined path characterized by connectivity and care taking for pets and humans..

ANALYSIS

Petsy isn't just an online marketplace. It is a meeting place where those in love with animals coordinate their energies, connect with each other, and manifold the lives of the pets they give shelter to. Whether you want a friend that is reliable or just want to pamper the dearest individual that you care about the most by looking for high-quality treats.

PURPOSE

The aim for the project Petsy is to create a new level of artificial intelligence which would make the owners of the pets forget about any regular processes of adoption and caring for the pets using the online platform. This project has set a clear goal: that is, there will be a one-stop website creation, which will serve as an interactive hub for pet lovers, bringing pet owners, potential adopters and animal welfare organization together on a common platform. In the view of Petsy, the abovementioned processes in. pet adoption, care, and commerce shall be transparent and simple for all parties, making their experience better.

BACKGROUND

Petsy came from the more significant pattern of modernizing the reception and encouraging course of pets. The current ways were in many cases tedious and muddled because of numerous coordination lines, wasteful trade of data and prompts dissatisfaction for pets' proprietors and adopters. The concept of a unified platform known as "Petsy" emerged as a result of this realization. It was intended to consolidate all of these interactions into a single system and, possibly, rethink how people interact with pets.

Given the cutting edge development of innovation and a more elevated level of generally speaking dependence on internet-based stages to address a singular's issues, one can expect that it is a possible chance to carry out computerized answers to streamline and improve the pet reception and by and large correspondence process. Petsy is able to close the gap between pet owners, potential adopters, and animal rights organizations in this way. This is a serious and easy to understand computerized stage to empower simple collaboration, sharing of data, and the deal/acquisition of living creatures.

In addition, the Petsy project connects with the general pattern for sympathetic creature treatment and capable pet possession. To put it another way, Petsy strives to foster an empathetic and welcoming pet community by providing users with the ability to make well-thought-out decisions regarding the acquisition and care of animals.

In synopsis, Petsy is considerably more than simply a site project. It communicates out regard for advancement, love for pet creatures, and goal to change the state of pets and their proprietors to improve things. I trust that Petsy will make a reality where pets are cherished in all homes.

PROBLEM STATEMENT

The following are the problems at hand:

Limited Awareness and Communication:

- a. a. It is under-provisioned with proper advertising channels for the pet owners and the people eligible for the adoption to connect with animal welfare organizations.
- b. b. In some cases the traditional methods are unable to cover the remote and nearby regions, so through the platform I hope to break this barrier, allowing me to reach a wider audience about the availability of pets and pet care services.

Access to Pet Care Resources:

- a. There are troubles in finding credible and copious data for people who are interested in adopting pets, outlining this subject and conducting studies on what it is to adopt a pet.
- b. We need to build a single platform with which you can get what you need freely and with no issues pet care lessons, guidelines, and the best practice are in it..

Limited Scope of Adoption and Innovation:

- a. Presently pet adoption and welfare initiatives cannot be boasted of a wide range of new and innovating projects and programs which should promote pet adoption, welfare, and responsible pet ownership.
- **b.** Students and pet lovers, more often than not, bump into barriers of cooperation within the pet Industry by way of creative projects and developments.

Difficulty in Finding Pet Services:

- a. Pets and petowners will sometimes have hard times finding service providers in the pet care industry as is the case with healthcare for animals i.e. veterinarians, grooming, trainers, and babysitters.
- b. Since this does not exist an outlet the gives pet owners a chance to engage, discover and communicate with professionals in the pet care field who are trustworthy and reliable, there is significant industry gap.

DESCRIPTION OF EXISTING SOLUTION

- Adoption agencies, shelters, and individual pet owners mostly use traditional media of advertisement which is mostly found in newspaper classifieds, flyers, and physical signage to promote pets for adoption and pet-related services.
- Sometimes one of the problems is that communication between pet owners, potential adopters, and service providers is performed only by phone calls, emails or in-person visits which leads to the delays during the adoption process and the inefficiency of the care.

The already functioning programs for pet care and adoption doesn't fulfil all aspects of this sphere as they are using numerous, fragmented approaches. The poor accessibility and innovative level of those programs are reasons why they are not as satisfactory for the pet lovers and owners. The lack of a platform that solves those problems obviously came to my notice, therefore what I am trying to

do is to emphasize the provision of a centralized platform that provides a more orderly and productive solutions for pet owners, potential adopters, and services providers alike.

ADVANTAGES OF THE EXISTING SOLUTION

- ➤ Direct communication with pets and adoption counselors provide a pleasurable time and builds a personal linkage at shelters and adoption events that improves the possibility of successful placement.
- ➤ The neighborhood has local stores and service providers that thrive on referrals and communal support, this induces economic activity thus improving the health of the local pet care system.
- ➤ This type of direct the communication with service providers allows pet owners to personally discuss about his needs and preferences and have a custom-fitted solution and personalized care for his pet.
- ➤ One of the most effective ways of marketing pet services is through personal recommendations that are trusted and is relied upon by pet owners, moreover this builds confidence and skills in the pet owner.

DISADIVANTAGES

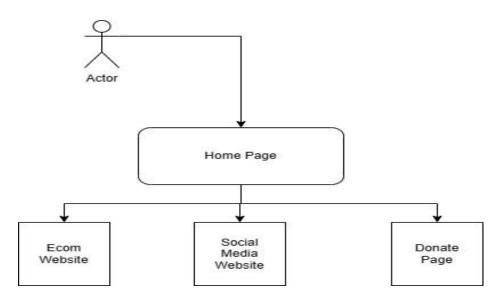
- Although the internet is frequently accessible, certain methods may not make the full advantage of its potential to reach those people with high ratios of pet-related information and services traffic online.
- Learner success depends highly on how well they can leverage and navigate online opportunities without getting lost in them. In the digital world of the 21st century, the availability of services and the rate of their acceptance are progressing faster than ever.
- ➤ The possibility of an even bigger chasm which will takes place due to the dependence on the online methods of channel could be dangerous, as this will exclude people who are unable to get hold of online resources and to participate in digital ways, thus their communication with the pet adoption and care organizations could be extremely limited.
- Word of mouth referral may be unclear about the criteria for selecting the service provider such as; qualifications, expertise or sets of standards which may disparage the quality of service and undermine consumers' confidence or trust in the service provider.
- The referral process to identify and use service providers might be labor-intensive particularly when it involves a lot of effort as well as time.
- ➤ Social interplay and word-of-mouth comments may be result of subjective perceptions, as well as qualified preferences, prejudices, and experiences of the individuals organizing this interplay and subsequently sending biased recommendations.
- A person being passed around from friend to friend may only benefit those he or she already knows; this way, the people who aren't part of these circles may become excluded.
- ➤ The articles regarding animals that are available online sometimes lack enough information. For rescue centers, the useful data may be scattered in various platforms and sources which makes it difficult for users to gather every information that they need.

➤ If continuous funding is unavailable and support is not restored in place pet adoption centers, shelters, and rescue organizations may have to shut down and their mission of protecting and finding homes for homeless animals will be left unfulfilled.

EVALUATION OF SUGGESTED SOLUTION

The web has saturated each edge of life, somehow, and in the long run, we become more reliant upon advanced media. They are the principal assets of both data and correspondence. Not at all like the past situations, this cutting edge society should be comprehensive and totally Google-tended to. Customary means probably won't be sufficiently effective to address those issues. To put it plainly, we really want locales like Petsy made on the web which will actually want to utilize it to deal with the issues of raising a pet and slanting reception for it.

PETSY WEBSITE USE



PETSY WEBSITE PROJECT OBJECTIVES

The main Objective of this project is to provide a platform after completion of development and adoption the project of website should be able to:

- Make web based platform that improves on communication between pet people, specialist co-ops, and pet sweethearts. Such a stage could have informing frameworks, discussions, and local area visit boxes where clients can collaborate with one another, posting or looking for data, exhortation, and encounters.
- It ought to likewise have a simple to-utilize point of interaction to interface clients to nitty gritty data about pet consideration, wellbeing guidance, preparing, and industry data. The stage ought to chip away at work areas, PCs, and different gadgets to satisfy clients' inclinations.
- Encouraging a feeling of local area and joint effort by pet people, creature sweethearts, and pet experts. Make intelligent highlights, for example, client created content, conversation gatherings, and the consistent coordination of virtual entertainment to support the feeling of a local area effectively taking part in pet consideration and security.

- For example, this entry should exhibit the abilities and the organizations presented by specialists and understudies. The strategy will incorporate a professional reference, profiles, and different special ways of showing the exceptional capacities and commitments made by the neighborhood pet specialists and businesspersons. generated content, discussion forums, and social media integration, creating a vibrant and engaged community around pet care and welfare.
- Petsy will be great pet-related organizations, administrations, and items. As an outcome, professional resources, profiles, and special highlights can be used to underscore the experience and commitments of neighborhood pet help experts and entrepreneurs.
- Affirming that the Petsy webpage will be accessible and will have adequate clients no matter what the deterrents of handicapped individuals by embracing web availability rules and integrating highlights like elective text for pictures, console route, as well as screen peruser compatibility. As another improvement plan, accentuation on inclusivity by consolidating content and resources in the other language lingos to address the requirements of the various networks was taken.

DEVELOPMENT PLATFORMS

HARDWARE

Computer running with:

- A minimum capacity disk more than 2.5 GB of free space and above
- > At least 2 GB RAM.
- ➤ WIFI connectivity

TECH STACK USED

- Reactjs.
- * React libraries according:
 - > Zod
 - > Appwrite
 - > Typescript
 - React-Dom
 - Payload CMS
 - ➤ NextAuth
 - ➤ GoogleAuthProvider
 - Cloudinary
 - ➤ JavaScript
 - > Upslash
 - > Stripe Gateway
 - > Tailwindcss
 - > Eslint
 - ➤ NodeJs

- > HTML5
- ❖ Windows 10 operating system 64 bit
- Web browser
- ❖ Text editor Brackets (IDE), Sublime text editor, Note pad ++, or V.S. Code.(for contribution)

HARDWARE, SOFTWARE AND HUMANWIRE REQUIREMENTS FOR THE SYSTEM

- Domain name
- Webhost that provide;
 - > Vercel
 - Prisma
 - ➤ HTML, CSS, SQL, JavaScript, Tailwind, Reactjs, Routing knowledge.

DESIGN

This phase introduce the activities for meeting the objectives to innovate the current system to satisfy specified requirements.

ACTIVITY PLAN

To track the progress of the project the schedule followed:

ACTIVITIES TO BE DONE FROM JANUARY TO MAY 2024

	FEB	MAR	APR	MAY
ANALYSIS				
DESIGN				
BUILD PROTOTYPE				
TESTING				
INCIDENTENTE				
INCREMENT				
DOCUMENTATION				
DOCUMENTATION				
SYSTEM EVALUATION &				
DEVELOPMENT				
PRESENTATION				
DEVELOPMENT				

APPROACH (METHODOLOGY)

Theory of incremental as the main approach and, combine it with iterative model, Kanban agile approach, and Reuse- oriented approaches, which rely on a large base of reusable software components and an integrating framework for the composition of these components however; most of the code will be developed from scratch. These methodologies done as follows:

- ❖ The early increments are identified but the development of later increments depends on progress of the project
- ❖ Different designs suggested meeting the requirements; implemented and tested the one with the most satisfying results is incremented to the project.
- ❖ In addition, each subsequent release of the system adds function to the previous release until all designed project features are fully functionally.

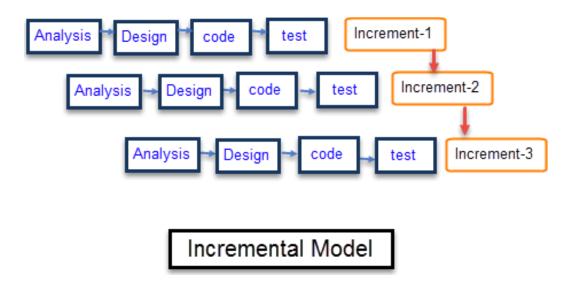
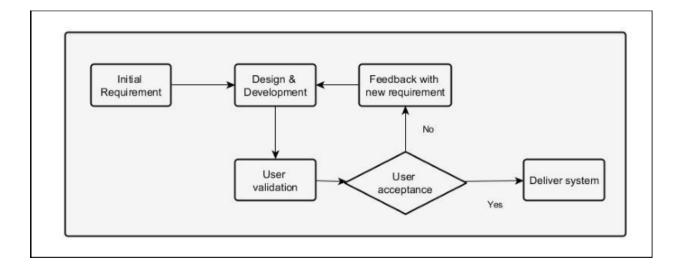


Image retrieved from: Incremental Model in SDLC: Use, Advantage & Disadvantage (guru99.com)

Incremental Model in SDLC:

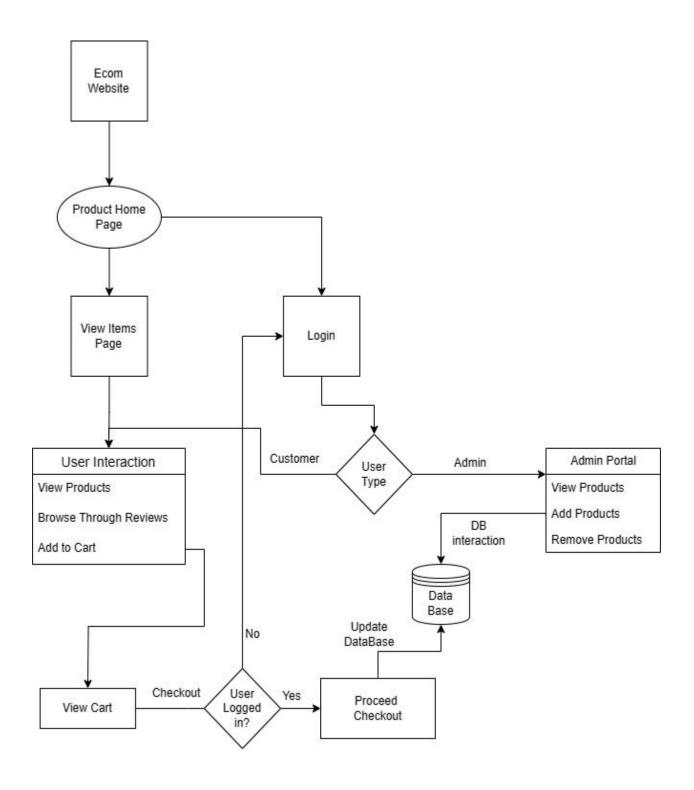
Because of the bustling timetables of the executives, it is a test to assemble information and input, which consequently will utilize a prototyping strategy to test plans.. I try to build a prototype rather than the final solution. A model is an underlying rendition of the framework used to show ideas and evaluate the plan. It is worked from presently referred to client needs as they are perceived.

Image retrieved from: <u>Evolutionary prototyping model (Adapted from [11]) | Download Scientific Diagram (researchgate.net)</u>

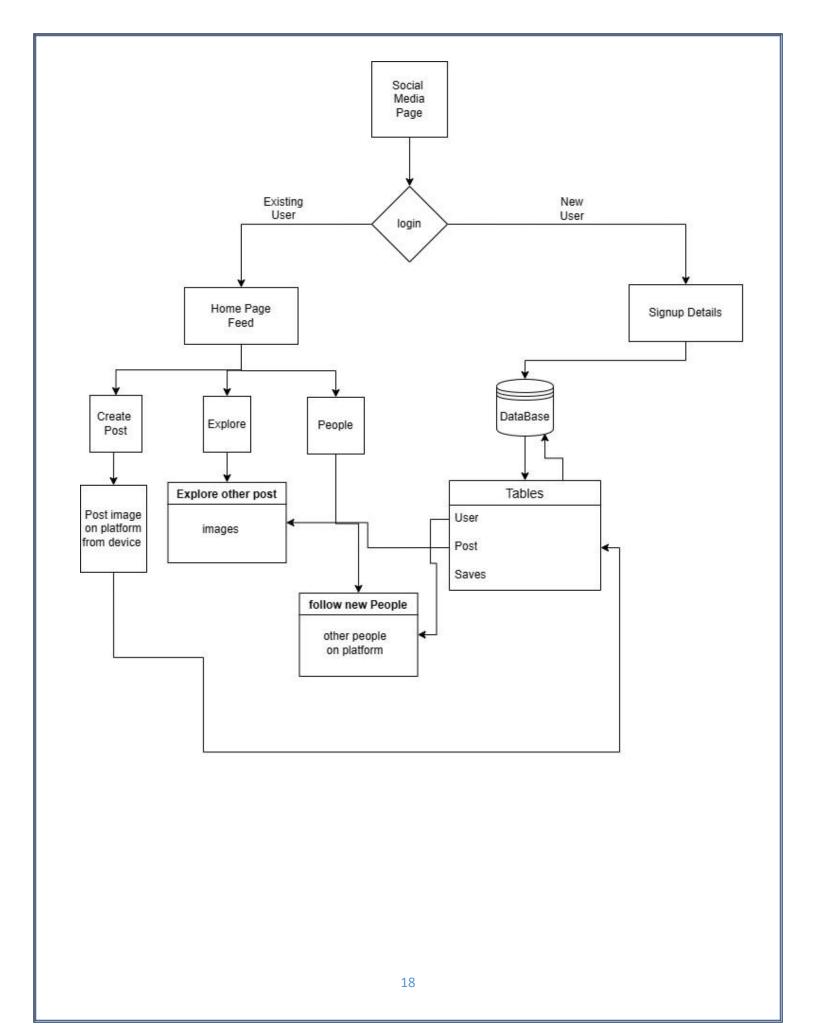


* Ecommerce Website Architecture

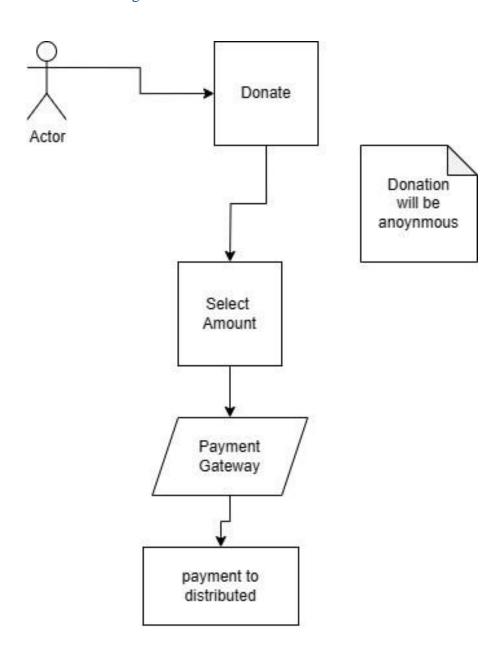
> Static web architecture



Social Media Website Architecture



❖ Donate Page Architecture



TESTING AND RESULT

The testing work was a critical focal point of the improvement cycle to guarantee that any slip-ups recognized were redressed and avoid any future blunders that would disrupt the site's skill. Petsy zeroed in on full testing of the expert in the different space devices, and probabilities, and afterward became both dependable and easy to use collaboration on all client destinations. This model integrates the testing system into individual results.

Unit Testing

The next phase was unit testing, which was done after the coding phase to find and fix any production errors. Unit testing included really looking at the modules for mistakes and usefulness. Testing was done freely on the modules, and redresses were affected prior to retesting them to approve. The results of the unit testing can be considered satisfactory and in line with the project's functionality.

Other test on the project are as follows:

Functionality Testing

Link Checking:

- All links that were used in the website to point to other webpages and functionalities were thoroughly tested.
- Links were also tested to make sure they don't leak confidential information.
- Any redundant link was either removed for rectified.

Database Testing:

- As Data is stored in different databases for different website check for data leaks were thoroughly conducted.
- CRUD operations testing was performed to make sure any unauthorized person is not able to make changes.
- Testing for any open end point was performed to make sure it does not exposes connection string to database.

Usability Testing:

- Petsy website is thoroughly tested on different platforms to make sure it works as intended.
- Link for navigation are tested to make sure that is performs as intended.

Compatibility Testing:

- Compatibility of the Petsy website was tested across different browsers and devices to ensure a consistent user experience.
- Tested on different browser for checking compatibility and performance on popular web browsers like chrome, edge safari etc.
- Mobile responsiveness is also kept in mind to make sure ease of access in small screen.

SYSTEM DEVELOPMENT AND EVALUATION

DEVELOPMENT

Petsy advancement is very team centric approach of connecting individual prowness with collective best effort. Open source technology is another advantage of this project. This ensures that whoever wants to contribute to our project is also able to incorporate their ideas. Petsy's growth path recognizes that is a world that is in a process of changing and becoming like the digital one. These values have continuously shaped our mission to increase the quality and outreach of our services with the pet owners, adopting families, and animal welfare organizations for their needs. Currently, Petsy in its fully featured and robust version exists. It definitely has room for growth in the sense that there are many ways of improving it to make it more useful for its users.

In this way, our students undergo such projects internal, and this eventually help them to maintain the speed with technology innovation and also tend to achieve a culture of innovation and capable themselves. Through this proactivity we practice efficiency and we adapt the trends as they change, we deliver what is meant specifically for our users to reduce dependency on other platforms. As we continue further, maintaining the budget for the research in development and also the collaboration with animal welfare organizations will be paramount to Petsy's success that can make it the leader in the industry of pet care and adoption.

PUBLICATION DETAILS

Voices of the Silent Subjects: Animals in Research and Testing

Team Members:

Rahul Sharma, Vivek Kumar Singh, Sahal Imran, Hemant Kumar, Ambu Shiva Kumar

ABSTRACT: Using animals in testing has been a long-standing practice, covering various industries and product testing scenarios. So much so that the humane boundary for testing has been crossed way too many times. Despite the extensiveness of animal testing in developing drugs, cosmetics, chemicals, and other consumer goods, there remains a significant need for more awareness among the public regarding the extent of animal cruelty involved in these processes. Every product that is used in our day-to-day lives is made using animals as test subjects.

Therefore, this paper aims to raise public awareness of animal cruelty and its use in various product testing. It also explicitly discusses other aspects, such as challenges and goals, and encourages collective action towards more humane and sustainable testing practices.

KEYWORDS: Animal cruelty, Animal testing, Ethical considerations, Recent trends, Knowledge dissemination, awareness.

Paper Accepted- IJRASET61398

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Dear Author/Research Scholar,

I am pleased to inform you that IJRASET would like to publish your manuscript "Voices of the Silent Subjects: Animals in Research and Testing" in Volume 12 Issue IV April 2024.

Plagiarism Report

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