**COMMUNITY SITE FOR DOG LOVERS**

Group 3

University of Ottawa

Ottawa, Ontario

**Version 1.0.0** (*smartsheet BRD template*)

**10/23/2022**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
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| Business Owner | Group 9 | Group 9 |  | 10/17/2022 |
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**0. Executive summary**

Dogs in the world today are the most kept pets. They provide companionship and some are even trained to perform different functions such as sniff out suspects/smells (police dogs), help direct individuals with disabilities (e.g., blind people) and perform in shows (circus etc.). Owning a dog comes with health benefits: Exercises as you have to take the dog for walks and depression as you have a companion. Most dog owners socialize in parks or other outdoor places when they take their dogs for walks as there is very few structured platforms for meeting other dog owners/lovers. Dogs get missing and stray dogs may never find homes as there is also no structured platform for relaying these events to individuals who could potentially take these dogs in. This project helps that cause as it provides dog owners with a platform to bond/socialize with each other, missing dogs have high probability of being found given a chance to return to their previous owners or get new owners and stray dogs have the same benefit.

1. **Project Description**

The 2 main goals of the community site for dog lovers includes helping dog lovers to:

* Socialize/bond and get to learn new things about being dog owners
* Find new homes for stray/missing dogs or return them to their existing homes
  1. **Project objectives**

The community site for dog lovers has 5 defined objectives. The site:

1. Contains information about breeds of dogs
2. Has a dog adoption portal: Dog owners who want to put up their dogs up for adoption would fill a form about information of the designated dog. The potential adopter(s) of the dog would scroll through the list of dogs up for adoption and set a time to meet with dog owners.
3. Provides a platform for reporting stray dogs
4. Provides a platform for reporting missing dogs
5. Provides an avenue to schedule meetups for individuals involved in 2-4 above
6. **Project Scope**

The goal of this project as mentioned in 2.1 is to help dog lovers bond, learn new things about being dog owners, and find new/existing homes for stray/missing dogs. The timeline for this project is 2 months and each task has been split among group 3 members. Due to the timeline, an update for each deliverable defined in 12 is required every 2 weeks. The scope of this project covers the 5 defined objectives in 2.1. An optional 6th objective which is the dog classifier (checks for dog breed information based on user uploaded photos) will be included if the timeline for project completion is not elapsed. This has been agreed by the stakeholders.

1. **Business Driver**

According to the Center for Disease Control and Prevention (CDC), USA, owning a pet comes with multiple health and social benefits. This includes exercising, becoming one with nature as you explore the outdoors and socializing with fellow pet owners. Frequent pet walks (especially for dogs or pets that need to be walked) or any fun activity with a pet can reduce cases of increased blood pressure and cholesterol levels. A pet owner also has a companion in a pet, and this can help deal with being lonely and mental health issues such as depression [1]. Hence, the need to provide a platform that can bring dog lovers together and help a dog find a suitable home.

1. **Functional Requirements**

To achieve the goals and objectives of this project the following requirements have been outlined:

* Upload information about dog breeds
* Users can create a profile
* Users can upload and post information about missing dogs or stray dogs using their credentials
* Missing dogs or stray dogs would be displayed vividly on the home page
* Users can schedule meetups using site
* A confirmation e-mail is sent to users after profile and scheduling creation, and new information is posted on page, if user is subscribed to that option (done by admin).
* Create database with following tables: breed, reports, dogs, user, events, event subscriptions, admin
  1. **Priority**

|  |  |  |
| --- | --- | --- |
| Value | Rating | Description |
| 1 | Critical | Upload information about dog breeds |
| 2 | Critical | Users can create profile |
| 3 | Critical | Users can upload/post information about missing/stray dog |
| 4 | High | Confirmation e-mail sent to users after profile/schedule creation, and new information posted on page |
| 5 | Critical | Missing/Stray dog information must be displayed vividly on home page |
| 6 | Critical | Users can schedule meetups using site |
| 7 | Critical | Create database with following tables: breed, reports, dogs, user, events, event subscriptions, admin |
| 8 | Low | Dog classifier |

Ratings: Critical refers to requirements that is paramount to project success. High refers to important project requirement, but the project can still be implemented without it. Low refers to activity project is not dependent on but is nice to have.

* 1. **Requirements categories**

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Requirement | Priority | Raised by |
| 001 | Critical | Upload information about dog breeds | Edikan Ekong |
| 002 | Critical | Users can create profile | Lavinsh Parsai |
| 003 | Critical | Users can upload/post information about missing/stray dog | Edikan Ekong |
| 004 | High | Confirmation e-mail sent to users after profile/schedule creation, and new information posted on page | Admin (all team members) |
| 005 | Critical | Missing/Stray dog information must be displayed vividly on home page | Jai Kaushil |
| 006 | Critical | Users can schedule meetups using site | Mahmoud El-Khalil |
| 007 | Critical | Create database with following tables: breed, reports, dogs, user, events, event subscriptions, admin | Yogesh Singla |
| 008 | Low | Dog classifier | Yogesh Singla |

1. **Non-Functional Requirements**

|  |  |
| --- | --- |
| ID | Requirement |
| 009 | Confirm dog owner guidelines/laws/protocols/policies |
|  | Research on user privacy laws |
| 010 | Research on laws regarding dog adoption |
| 011 | Check for existing protocols/guidelines regarding reporting missing/stray dogs |
| 012 | Confirm security of meetup site for users |

1. **Finances**

The community for dog-lovers is a free site is funded by Group 9 company. It is a non-profit organization that wants to create a communication system for dog-lovers and dogs. Finances needed for design, implementation and maintenance of this site is provided the group 9 company. Users of the site do not pay anything to use the site.

1. **Cost benefit analysis**

This project designs and implements a free website for dog lovers to interact without any costs and find new home for missing/stray dogs. The table below shows the recurring and non-recurring costs associated with this project.

|  |  |  |
| --- | --- | --- |
| Recurring Costs (Annual costs) | | |
| S/N | **Resources needed** | **Cost** |
| 1 | Website management | $200 |
| 2 | Domain name | $100 |
| 3 | Storage | $400 |
| 4 | Computer peripherals | $150 |
| 5 | Labor (5 personnel) | $100000 |
| 6 | Database management | $300 |
| 7 | Marketing | $400 |
| Total | | **$101550** |
| Non-Recurring costs | | |
| 8 | Hp omen – manage user requirement | $1000 |
| 9 | Software (figma, dbdesigner, bootstrap, pycharm, wireframe, Django) | $300 |
| Total | | **$1300** |
|  | | **$102,850** |

This website aims to drive traffic to it consisting majorly of dog-lovers. In the future, if group 9 decides to start making profit, ads can be added on the site to allow for companies to advertise dog related products or services. For example, say the website has about 8000 active users. We charge $40/month per engaged advertisement (that is user clicks on ad and buys product). Say an average of 1000 users engaged an ad in a month, we would have $40,000/month and $480000 annually. Cost per clicks and cost per action are ways profit can be made from the website in future.

1. **Resources**

The following outlined items are needed for successful design and implementation of this project

|  |  |  |
| --- | --- | --- |
| S/N | Resources needed | Quantity |
| 1 | Hp omen – manage user requirement | 5 |
| 2 | Domain name | 1 |
| 3 | Storage | 1 TB (depends on number of users and amount of information) |
| 4 | Software (figma, dbdesigner, bootstrap, pycharm, wireframe, Django) | 6 |
| 5 | Personnel | 5 |

1. **Timelines**

This project is to be completed in a 2-month timeframe (December 22, 2022) with weekly updates on set deliverables. The fonts in red below are hard deadlines. See table below:

|  |  |
| --- | --- |
| Timelines | Deliverable |
| 10/23/2022 | Classes definition, database, and graphical user interface (GUI) prototyping |
| 10/31/2022 | Progress update with team lead |
| 10/8/2022 | Progress update with team lead |
| 11/15/2022 | Progress update with team lead |
| 11/22/2022 | User Interface, backend, and database completion |
| 11/29/2022 | Initial testing and relating framework from front-end to back-end |
| 12/02/2022 | Second phase of testing |
| 12/6/2022 | Initial meeting with Group 9 |
| 12/13/2022 | beta phase deployment/testing |
| 12/22/2022 | Project completion and full market deployment |

1. **Project Assumptions**

Assumptions made in this project are as follows:

* There is a high number of dog lovers
* There is a high number of stray dogs
* There is a high number of missing dogs
* Dog lovers want to socialize/bond with fellow dog lovers
* People want to be informed about breeds of dogs

# **References**

|  |  |
| --- | --- |
| [1] | "Healthy Pets, Healthy People," Center for Disease Control and Prevention (CDC), [Online]. Available:https://www.cdc.gov/healthypets/keeping-pets-and-people-healthy/how.html#:~:text=There%20are%20many%20health%20benefits,depression%20by%20giving%20us%20companionship.. |