

# SW Engineering CSC648/848 Spring2015

Project Name :	Pet Basket
Group Number :	03
Team Members :	Allan Gamboa (Team Lead) <i>agamboa@mail.sfsu.edu</i>  Christopher Beaton <i>cbeaton@mail.sfsu.edu</i>  Nathan Lee <i>nthanlee@mail.sfsu.edu</i>  Sisi Wei <i>swei@mail.sfsu.edu</i>  Stanley Seeto <i>sseeto@mail.sfsu.edu</i>

Milestone 1

Date: 03/09/2015

# Revision History Table

Date	Version	Description	Author
03/05/2015	1.0	First Edit, Rough Draft, Use Cases	
03/07/2015	1.1	Functional/Non-Functional	
03/08/2015	1.2	Executive Summary	
03/09/2015	2.0	Group Review/Edits	
03/10/2015	2.1	Large Edits	
03/15/2015	3.0	Dr. Petkovick Feedback	
03/19/2015	3.1	Final Feedback	

# 1.Executive Summary

All pets deserve a loving home, they are emotional companions and should be treated like family. With Pet Basket we aim to make the pet adoption process easier in an effort to ensure that the pets of the bay area find a proper home. Pet Basket will be user-friendly and appeal to all technical backgrounds by providing an easy-to-use interface and requiring minimal information during the submission and verification process. The appeal is generated by forming the website centered around the user. Every step of the adoption process for an **adopter** is simple and intuitive with the use of an effective search and an innovative **pet basket** and **collapsible pet detail** feature. **Posters** have defined steps to clarify required information needed to place a pet up for adoption. **Administrators** have a clear interface to manage the uploaded and presented content of the website.

The **poster**, a registered user who is looking for an **adopter** for the pet, will only need to submit information for pet registration such as the pet's breed and age, and agree to any disclaimer agreements and required legal forms. The **poster** will also have the freedom to select who adopts their pet from a list of potential **adopters**, people interested in adopting the pet. The **poster** will have the freedom to remove the pet from the adoption listing. The poster has responsibility of contacting any potential adopters at their own discretion and selecting the adopter of the pet.

The **adopter**, a person who is looking to adopt a pet, can easily search and browse through the pet listing. To narrow the scope of the search, the website provides filters to specify attributes of their desired pet, such as breed, size, and age. The user's browsing experience is enhanced by using a pull-down window functionality, which extracts specific portions of the pet's description for simplification. Complete detailed pet descriptions can be accessed in one-click.

The website's original and unique feature is the **pet basket**. The **pet basket's** functionality allows any user to retain a listing of interested or concerned pets and to perform comparisons between pets, which may aid in the adoption selection. It retains the current browsing position to allow easier continuation of the current search under the same search conditions, creating a more pleasant user experience.



## 2. Use Cases

- **Adopter:** Alex is looking for a new friend and has decided to adopt a pit bull named Max. After choosing Max for adoption, Alex is brought to a verification page where he fills out information about himself to provide to the **poster**. Before submitting the verification page he types a personal comment to the **poster**. When he is done with the verification process, the information is verified through the verification server and the **poster** is notified of a potential **adopter**. Alex now waits until the **poster** contacts him to complete the process.
- **Registered User (Poster):** Lilith wants to offer her pet cat, Noodles, for adoption due to time constraints from her new job. She registers on the site by providing a basic information and contact details, and agreeing to a disclosure agreement. She completes and submits the **Poster** form, with required information about her cat. After the **administrator** accepts her posting, she waits for notifications from potential **adopters**. Lilith receives a notice of a potential **adopter** and reviews his information. She contacts the **adopter** through the provided contact information from the **adopter's** verification form. After appropriate discussion she feels the potential adopter is a good fit. They meet and she heavily heartedly bids farewell to Noodles.
- **Browser:** Drew is deeply interested in adopting a dog; unfortunately he does not know exactly what type of dog he wants. He chooses to browse the selection available on the site. He comes across Max, a dog he finds appealing, he expands all of Max's information while on the current browsing page. After reading more about Max Drew doesn't feel that he is a good fit. He decides to continue browsing.
- **Administrator:** Sally is curator and editor of Pet Basket. Every morning she, coffee in hand, reviews the latest list of Poster pet submissions. Sally goes down the list, and for each posting she decides to either accept or reject the posting. She sees several good postings, which she publishes, then comes across a posting that doesn't meet her standards so Sally declines and types a brief comment to the Poster. Midmorning Sally is browsing Pet Basket and comes across a posting that's getting rather old. She decides to depublish it by clicking on a button that's attached to every posting, but which is visible only to her and other Pet Basket administrators. She also informs the poster of her decision. Later in the day Sally is browsing the web and discovers a great article for prospective pit bull owners.

### 3.Data Definitaion/Glossary

1. **Browser:** Non registered
2. **Registered User:** Person who registered and has an account on the website (Not required to post a pet for listing)
  - a. **Poster:** Person who posts a pet into the animal listing for adoption
3. **Administrator:** Person responsible for image and content inspection.
4. **Pets:** Animals prior to being selected for adoption. Not eligible for adoption.
5. **Adopter:** Person interested in an adoptee(s).
6. **Adoptee:** Pet targeted for adoption.
7. **Featured:** Pet targeted for special presentation in user interface
8. **Poster:** Registered user who is looking for a adopter for his/her pet.
9. **Detailed Pet Page:** Page that will consist of all **provided information** about a pet
10. **Provided Information:** May consist of: Name, Age, Breed/Type of Animal, Weight, Any Special Needs, Comments, Size
11. **Pet Basket:** Cart functionality that allows all users to select pets and save for later side by side inspection.
12. **Collected Pet / Followed Pet:** Pet in the pet basket.
13. **Related Content:** Website content, such as articles, videos, ancillary to the main pet adoption focus.

## 4. Initial list of functional specifications

1. Administrators shall have control about what content is uploaded.
2. Administrators shall have control about what is shown on the website.
3. Administrators shall have control over what images can be attached to an animal posting.
4. Administrators shall have control over what the featured pets are shown on the homepage.
5. Administrators shall have control over the removal of any registered user.
6. Users shall be able to search by animal type.
7. Users shall be able to search by animal age.
8. Users shall be able to search by animal weight.
9. Users shall be able to search by animal breed.
10. Users shall be able to search by animal sex.
11. Users shall be able to search by pet names.
12. Users shall be able to search breeds and sub-breeds through a drop-down menu with a suggestive search.
13. Users shall be able to apply for adoption of any listed pet.
14. Users shall be able to sign up for the newsletter.
15. Users shall be able to contribute to a pet by providing money for purchasing food, toys, and other pet related products.
16. Users shall be able to see basic pet information on the browsing pages.
17. Users shall be able to expand the basic pet information on the browsing pages.
18. Pet information shall be expanded with a drop-down menu.
19. Users shall be able to access the detailed pet page by clicking the image or a hyperlink named "More Details..."
20. Users shall be verified before the Poster is contacted.
21. Browsers shall be able to register for posting privileges.
22. Registered Users shall be able to submit postings of animals to adopt.
23. Registered Users shall be able to include any special needs within the submission form.
24. Registered Users shall be able to view interested potential adopters.
25. Registered Users shall be able to control who receives their personal information.

## 5. Initial list of non-functional specifications

1. The language used shall be English.
2. The uploaded pet images shall be viewed on one page in the detailed pet page.
3. The logo shall be on the upper left of all pages.
4. The search functionality shall be on the left side of the page.
5. We shall incorporate a horizontal navigation bar.
6. The website's about page shall prominently display CSC648 group project.
7. The website shall be able to host at most 50 concurrent users.
8. Users shall have secure account creation.
9. Users shall have secure login.
10. The website shall be safe.
11. The website shall provide friendly user experience.
12. The website shall be easy to use.
13. The website shall include Google Analytic specifications.



## 6.Competitive analysis

	Pet Basket	RocketDog	SF SPCA	FurryFriends
Pet Basket	+	none	none	none
Collapsible Pet Detail	+	none	none	none
Standard Search Filters	+	+	+	+
Charitable Contribution Functionalities	+	+	-	+
Pet Recommendation	+	none	+	none

Our unique Pet Basket feature shall offer users the ability to collect pets on the website for side-by-side pet comparisons and easy access to added pets. Meanwhile, the Collapsible Pet Detail feature shall expand when clicked to show detailed information about a pet, giving the website's users the ability to make informed decisions about that particular pet. Like other websites, we shall provide Standard Search Filters but ours' shall enable users to browse more consisely. We also have the Charitable Contribution Functionalities which shall enable users to make donations to pets featured on the website. Finally, Pet Recommendations shall recommend pets needed for urgent adoptions or pets related to current search under some similar fields. Our company shall surpass the current competition by providing convenient features similar to features provided by Google (Collapsible Detail) and Amazon (Cart functionality and Recommendations).

### Competitor References:

- <http://www.rocketdogrescue.org/>
- <https://www.sfspca.org/>
- <http://www.furryfriends.org/>

## 7.High-level system architecture

- This project shall be hosted on a virtual machine running the Ubuntu 12.xx.x LTS operating system.
- This operating system shall run the Apache HTTP web server, MySQL database server, and PHP version 5.3.
- Database administration shall take place via phpMyAdmin and/or the MySQL command-line tool.
- The HTML and CSS portion of the Bootstrap framework shall be used, as shall the jQuery JavaScript library.
- User interactions with the project shall be measured using the Google Analytics API.
- This project shall support the Safari web browser versions 6 and 7 for OS X, the Chrome web browser version 41 for OS X and Windows 7, and the Firefox web browser version 36 for OS X and Windows 7.
- Remote administration of the virtual machine previously stated shall take place over SSH.

## 8.Team

Allan Gamboa - Group Leader, QA

Christopher Beaton - Tech Lead

Nathan Lee - Database/SVN Administrator

Sisi Wei - Front End Development, User Experience

Stanley Seeto - Back End Development, Documentation Manager