



POOCH

Manage Pets
Dog Services

Dog Walking
Dog Meetups

Dog Boarding
Dog Records

Sprint #7

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Updates to BRD?

None



Updates to Management Plan?

Gantt Chart, Sprint Retrospective, and Sprint Board



Gantt Chart





User Stories Released This Sprint

1. Implement Google Places API
2. Adjust content according to screen size
3. Add full screen view for documents on Dog Records page
4. Add links to features over slideshow



How Many Features in a Data Sample?

We are developing a neural network to detect whether images being uploaded to pet profiles are actually dogs.

There will be 2 features in each data sample (dog image and dog label).



What is the source of the training data?

We gathered the data from an **online dataset** which consists of images and labels. The data we acquired was used to **train** the model so that it can **predict** the outcome.

Images for dog

 puppy  white  small  cat  big  animal  >





How does the team plan to deploy the machine learning model?

We are currently planning on deploying the machine learning model as external **server code** in python.



Machine Learning Deployment Alternatives

Google Vision API

-Doesn't allow us to create our own model

Firebase Machine Learning Kit

-Team has no experience with it

Python Transcompiler

-Very slow



Kaggle Dataset

The team is planning to perform a supervised model for Machine Learning.

For the initial purpose, we are using Kaggle for the labelled dataset.

The link for the initial working dataset can be found here:

<https://www.kaggle.com/tongpython/cat-and-dog>



The Training Dataset

The training dataset contains about 25000 images of dogs and cats(which we are gonna use as images for no dogs).

The dataset available on Kaggle is clearly labelled as dogs or cats, so we can receive the result to be a 0 or 1, depending on the uploaded image being a dog.

Since this output is binary, it will be easy to read and to be further developed upon. 25000 images is a good start to differentiate between dogs or not, and if needed we can always add more images and labels to the dataset. This is a great start to train our Machine Learning model.



The Test Dataset

The test dataset contains about 12500 images of dogs and cats.

This dataset, is going to be used later in the process. Since, we do not want our model to already learn the test dataset for validation and then later not have a good accuracy when tested on a real world dataset.



Libraries used in the Model training:

We have used libraries like:

1. CV2 (used for resizing the images)
2. Numpy (Dealing with arrays)
3. Os (To deal with multiple directories for train and test)
4. Random (shuffle so data can be frequently shuffled to better train our model)
5. Tflearn layers and conv for convolution.



Current ML Progress:

The kaggle dataset being used has labelled images like Dog.1.png or Cat.23.png. Firstly, a simple split function is used on the label name and if the returned answer is dog then a numpy array is created [0,1].

We are creating an array [cat, dog]

The second index is 1 if the output is a dog, or else the first index is 1.

Code snippet:

```
def label_img(img):
    word_label = img.split('.')[ -3]
    # conversion to one array [cat,dog]
    if word_label == 'cat': return [1,0]      #[much cat, no dog]
    elif word_label == 'dog': return [0,1]
```



Current ML Progress

After learning from labels, it is time to create training data of uniform size.

Since our original dataset contains images, the images could vary in size, thus uniformity is needed.

Hence, all the images are reshaped to be 50x50 pixels. So, convolution per layer can be done in a similar fashion for all images.

Finally, after reshaping the new images with the updated labels, the labelled images are stored in a numpy array.

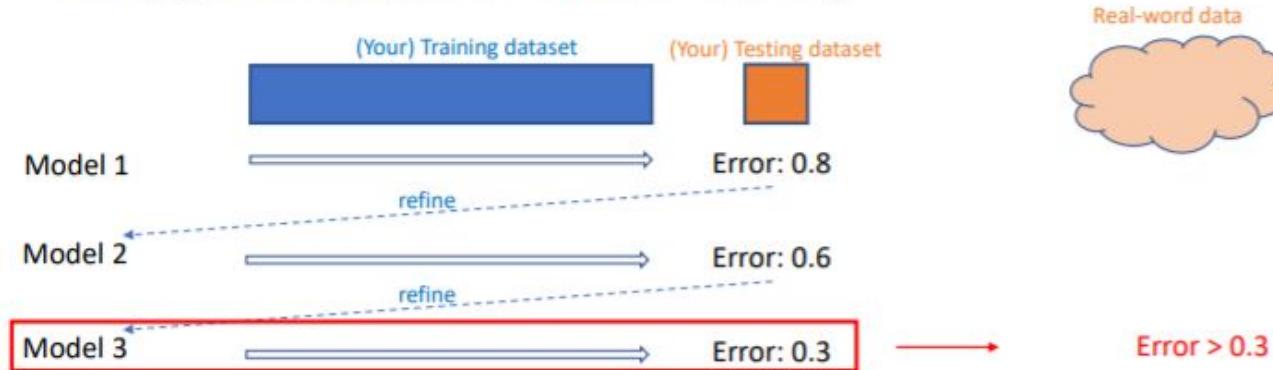
```
img = cv2.imread(path, cv2.IMREAD_GRAYSCALE)
img = cv2.resize(img, (IMG_SIZE, IMG_SIZE))
training_data.append([np.array(img), np.array(label)])
```



Validation

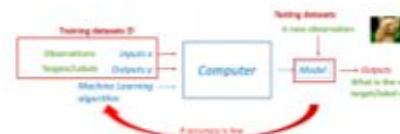
Current ML Progress

- What you should **NOT** do in Machine learning



Testing data is usually used to judge the goodness of a fully-trained model. But here, it is used to refine (tune) the model.

- The testing data here is not independent of training process and may not reflect the prediction on real world data.





Current ML Progress

Finally, after the creation of fresh training data set, we set aside some images for test from the same dataset.

This new set is called validation set.

Validation set is essential to achieve same accuracy on test data as from any data from the real world.

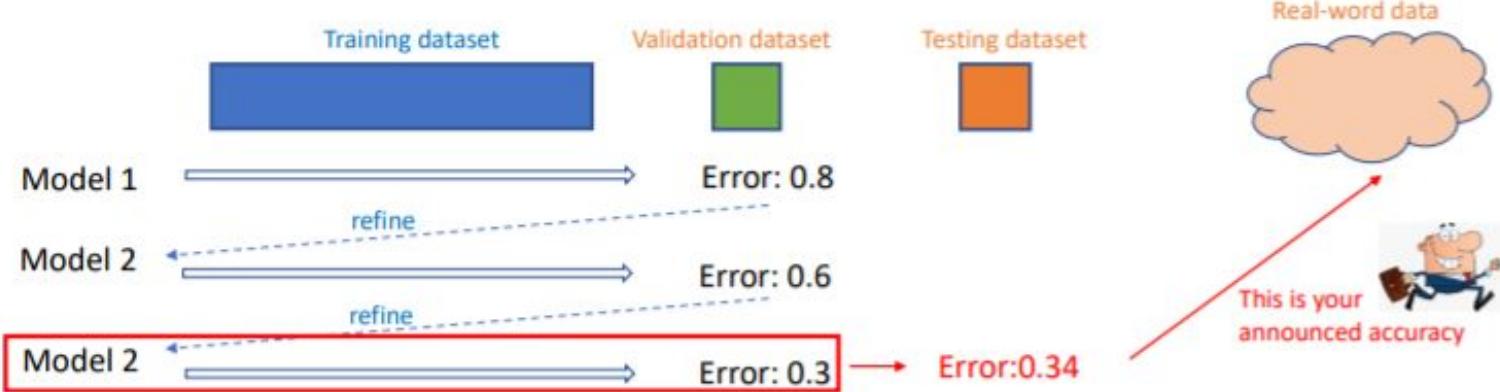
About 1000 images from the original (25000 images) are set aside for testing whilst training our model.



Current ML Progress

Validation

- What you **can do** in Machine learning





Current ML Progress

Our model initially had 4 layers (1 input layer, 2 convolution layers and one output layer), but this arrangement just returned about 10% accuracy and a very high data loss.

Our model was an underfit, and thus, we added three more layers of convolution, which resulted in around 86% accuracy with a loss of about 3%.



Current ML Progress

SAMPLE INPUT LAYER:

```
convnet = input_data(shape=[ None, IMG_SIZE, IMG_SIZE,  
1 ], name='input') #50x50 is the image size
```

SAMPLE CONVOLUTION LAYERS:

```
convnet = conv_2d(convnet, 32, 5, activation='relu')  
convnet = max_pool_2d(convnet, 5)  
convnet = conv_2d(convnet, 64, 5, activation='relu')  
convnet = max_pool_2d(convnet, 5)
```



Current ML Accuracy

Our current model has 5 epoches, and an average accuracy of 86%, with a 0.3% loss.



```
model.fit({'input': X}, {'targets': Y}, n_epoch=5, validation_set=({'input': test_X}, {'targets': test_Y}),  
snapshot_step=500, show_metric=True, run_id=MODEL_NAME)
```



```
Training Step: 1914 | total loss: 0.30774 | time: 656.534s  
| Adam | epoch: 005 | loss: 0.30774 - acc: 0.8676 -- iter: 24448/24500  
Training Step: 1915 | total loss: 0.30322 | time: 661.742s  
| Adam | epoch: 005 | loss: 0.30322 - acc: 0.8652 | val_loss: 0.45745 - val_acc: 0.8080 -- iter: 24500/24500  
--
```



Current ML Progress





Challenges faced during the Model training

- To wait for the model to run is very frustrating because it takes a little more than 1 hour, at the end you might not be happy with the results.
- The newer version of tensorflow had problems with tflearn regression, so we had to downgrade the version to 1.13.2
- It took us a long time to set the best fit for the convolutional layers



How many total user features are there?

There are currently a total of **29 features** offered to the user through our web application and **all are essential.** (100%)

- | | | |
|----------------------|-----------------------------|---------------------------|
| 1. View Home | 11. Delete Pet Profile | 21. Search Meetups |
| 2. Create Account | 12. Search Dog Walker | 22. Sort Meetups |
| 3. Login | 13. Sort Dog Walkers | 23. View Meetups |
| 4. Setup Profile | 14. View Dog Walkers | 24. Mark Going to Meetups |
| 5. View Profile | 15. Review Dog Walkers | 25. Create Meetups |
| 6. Edit Profile | 16. Search Dog Boarders | 26. Upload Documents |
| 7. Reset Profile | 17. Sort Dog Boarders | 27. View Document |
| 8. Setup Pet Profile | 18. View Dog Boarders | 28. Delete Documents |
| 9. View Pet | 19. Review Dog Boarders | 29. Logout |
| 10. Edit Pet Profile | 20. Search for Dog Services | |

Sprint #7

Before vs

After



Home Page

Before

POOCH

Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records

Login Create Account

New to Pooch? Start here ↑

Going out of town?
Find accommodations
with Pooch! View Dog
Boarders

POOCH

Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records

Login Create Account

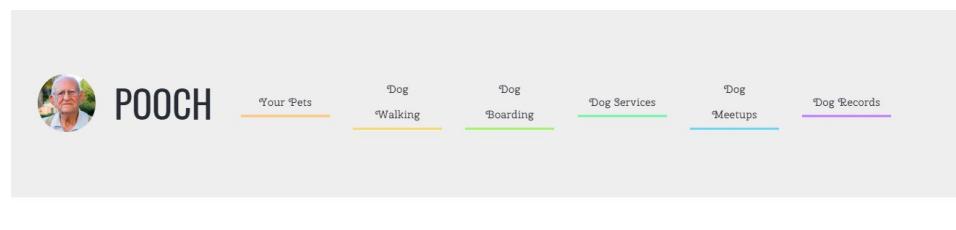
New to Pooch? Start here ↑

Find qualified vets,
groomers, and more!
View Dog Services

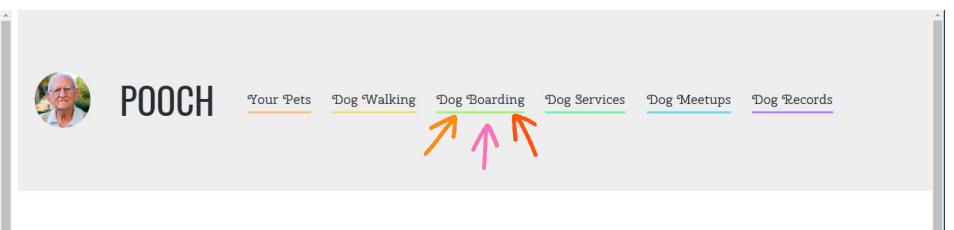


Navbar

Before



After





Your Pets Page

Before

The screenshot shows a user profile for "POOCH" at the top. Below it, there are three dog profile cards. A blue arrow points from the text "← View dog profile" to the third card. A modal window is open over the third card, containing a file input field ("Choose File No file chosen"), a name input field ("Buddy"), a gender dropdown ("Male"), a breed dropdown ("Boxer"), and a color dropdown ("Brown").

After

The screenshot shows the same user profile and dog profile cards as the "Before" state. However, the modal window now contains different data: a placeholder image, a name input field ("Buddy"), a gender dropdown ("Male"), a breed dropdown ("Boxer"), and a color dropdown ("Brown").



Dog Walking Page

Before

The screenshot shows a list of dog walkers with their profiles and ratings. The first profile, which is circled in red, has no ratings and no contact information listed.

Name	Ratings	Reviews	Location	Rate
No Ratings ★			\$undefined/hour	
Doug Walker	4.0 ★ (2)		Long Beach	\$25/hour
George Walker	3.5 ★ (2)		Fargo	\$12/hour
Jeremy Gains	1.0 ★ (1)		Long Beach	\$16/hour
Jordan West	3.6 ★ (5)		Los Angeles	\$32/hour
Luther Hutchinson	2.7 ★ (3)		Helena	\$15/hour
No Ratings ★				
No Ratings ★				

After

The screenshot shows the same list of dog walkers. The first profile, which was previously circled in red, now has a red circle around it indicating it has been highlighted or selected.

Name	Ratings	Reviews	Location	Rate
No Ratings ★				
Doug Walker	4.0 ★ (2)		Long Beach	\$25/hour
George Walker	3.5 ★ (2)		Fargo	\$12/hour
Jeremy Gains	1.0 ★ (1)		Long Beach	\$16/hour
Jordan West	3.6 ★ (5)		Los Angeles	\$32/hour
Luther Hutchinson	2.7 ★ (3)		Helena	\$15/hour
No Ratings ★				
No Ratings ★				



Dog Boarding Page

Before

The 'Dog Boarders' section displays five cards, each representing a different boarding facility. Each card includes a small profile picture of a dog, the facility's name, its rating (e.g., 3.4 stars), address, phone number, and price per day.

Facility	Rating	Address	Phone Number	Price
Chateau Chien	3.4 ⭐	555-470-5211 7000 Grand Ave Huntington Beach	555-470-5211	\$230
Dog Beds R Us	3.6 ⭐	555-606-7007 610 Penbrooke St Lakewood	555-606-7007	\$105
Doggy Vacation!	4.5 ⭐	555-666-7788 1500 Pacific Coast Highway Long Beach	555-666-7788	\$120
Hawaii 4 Dogs	4.9 ⭐	666-777-8989 6000 North St Los Angeles	666-777-8989	\$200
The Ritz Pup Hotel	3.1 ⭐	555-765-4321 1200 Orange Avenue Newport Beach	555-765-4321	\$220

After

The 'Dog Boarders' section now features a modal overlay for the 'Hawaii 4 Dogs' facility. The modal includes a large profile picture of a dog, the facility's name, address, phone number, and price. It also displays a review section with a 3.0 star rating and a button to 'Write a review...'. A red circle highlights the review section, and a blue arrow points to the 'Write a review...' button.

Review Section:

3.0 ⭐ (1)

Write a review...

Review Content:

Hawaii 4 Dogs ⭐⭐⭐⭐
Clean, organized, but a bit expensive

Facility	Rating	Address	Phone Number	Price
Chateau Chien	3.0 ⭐	555-470-5211 7000 Grand Ave Huntington Beach	555-470-5211	\$230/day
Huntington Beach				\$120/day



Dog Services Page

Before

 **POOCH**

Your Pets Dog Walking Dog Boarding Dog Services Dog Meetup Dog Records

Dog Services

Enter your city: Track your location

Local Dog Supply Stores:

33.78500210000001
-118.13757260000001

Local Dog Grooming Services:

After

 **POOCH**

Your Pets Dog Walking Dog Boarding **Dog Services** Dog Meetups Dog Records

Primary Care Animal Hospital  (401)
2200 N Lakewood Blvd, Long Beach, CA 90815

Ambassador Long Beach Veterinary Hospital  (330)
2251 E Carson St, Long Beach, CA 90807

Bixby Animal Clinic  (35)
3938 Atlantic Ave, Long Beach, CA 90807

Pine Animal Hospital & Integrative Wellness Center  (276)
900 Pine Ave, Long Beach, CA 90813

Cats & Dogs Animal Hospital

Affordable Care Animal Hospital Long Beach

Red arrows highlight the search bar and the results for "vets". A red curved arrow points from the "Dog Services" menu item on the left to the "Dog Services" section on the right.



Dog Meetups Page

Before

Date&Time	Address	City	State	Zipcode	Description
	132 douglas st	charleston		24585	
	123 Perfect Street	Gainsville		37010	
	1450 Stetson Ave	Bismarck		58502	
	410 Bezel Way	Dallas		75001	
	1300 Broadway Ave	Denver		80014	
	760 Concordia Way	garden grove		92703	

After

From 03/24/2020 To mm/dd/yyyy

This week This weekend Next two weeks This month

Search... Title

Dog Meetups +

Dog Party by Hawaii 4 Dogs
760 Concordia Way
Garden Grove , CA, 92703
01 Apr 2020 @ 1:00AM

Maybe I'm Going

Meetup by Hawaii 4 Dogs
123 Perfect Street
Gainsville , TN, 37010
29 Mar 2020 @ 12:00PM

Maybe I'm Going

Playdate by Mark Upton Boarding

Snow Play Day by Hawaii 4 Dogs



Dog Records Page

Before



POOCH

Your
Pets

Dog
Walking

Dog
Boarding

Dog
Services

Dog
Meetup

Dog
Records

✓ First, select the document you want

PARENT/GUARDIAN CONSENT AND PLAYER MEDICAL RELEASE FORM

Player's Name: _____ Date of Birth: _____ Gender: _____
Address: _____ City: _____ State: _____ Zip: _____

EMERGENCY INFORMATION

Father's Name: _____ Home Phone: _____ Work Phone: _____
Mother's Name: _____ Home Phone: _____ Work Phone: _____

In an emergency, when parents cannot be reached, please contact:
Name: _____ Home Phone: _____ Work Phone: _____
Name: _____ Home Phone: _____ Work Phone: _____

Allergies: _____
Other Medical Conditions: _____
Player's Physician: _____ Home Phone: _____ Work Phone: _____
Medical and/or Hospital Insurance Company: _____ Phone: _____
Policy Holder: _____ Policy #: _____ Group #: _____

PLEASE COPY BOTH SIDES OF YOUR HEALTH INSURANCE CARD AND ATTACH TO THIS FORM

PARENT/GUARDIAN CONSENT AND MEDICAL RELEASE

Recognizing the possibility of injury or illness, and in consideration for US Youth Soccer and members of US Youth Soccer, Inc., accepting me as a player in the soccer programs operated by the US Youth Soccer, Inc., and its members (the "Program"), I consent to my child playing in the Programs. Further, I hereby release, discharge, and otherwise indemnify US Youth Soccer, Inc., member organizations and sponsors, and their respective officers, agents, employees, and volunteers from all claims, demands, and causes of action, which may arise out of my participation in the Programs, against any club by or on behalf of my player son/daughter or a friend of my son/daughter's participants in the Programs and/or being transported thereto from the Programs. I hereby authorize the



POOCH

Your Pets

Dog Walking

Dog Boarding

Dog Services

Dog Meetups

Dog Records

What would you like to do with the current document?

Delete

Minimize



CALIFORNIA STATE UNIVERSITY, LONG BEACH

17-18 FSEDVW

Student Name: _____

Campus ID Number: _____

HOUSEHOLD VERIFICATION (2017 - 2018)

Check the box that matches your dependency status and Complete the Household Chart

DEPENDENT

INDEPENDENT



Sprint #7

Summary



Sprint #7 Goals

- Work on all the features pages.
- Run tests on all the features pages to find and fix bugs.
- Complete the ML training for dogs vs cats model
- Achieve at least 85% accuracy in the model





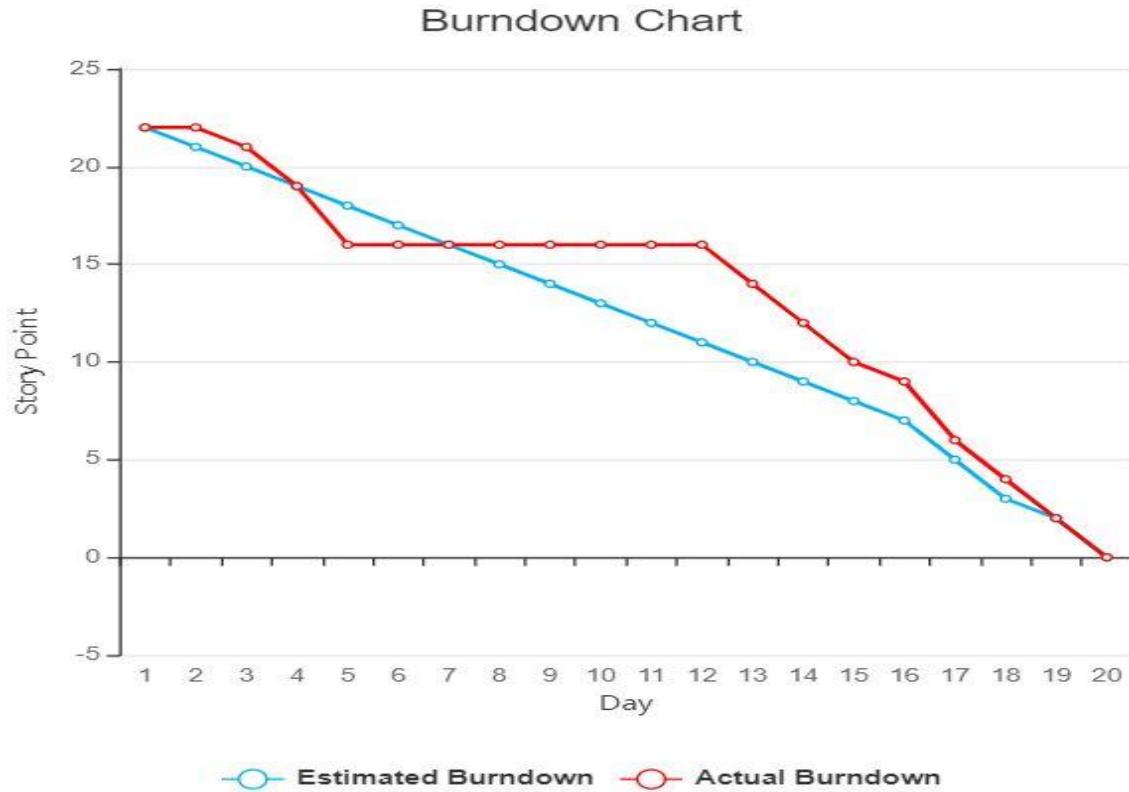
Azure Devops Sprint Board

Before

After

78	Find dataset for cats vs dogs	...	Unassigned	●	78	Find dataset for cats vs dogs	...	Unassigned	● Done
79	Split into train and test dataset		Unassigned	●	79	Split into train and test dataset		Unassigned	● Done
80	Research on CNN		Unassigned	●	80	Research on CNN		Unassigned	● Done
81	Work on ML model		Unassigned	●	81	Work on ML model		Unassigned	● Done
82	Improve the accuracy of the ML model		Unassigned	●	82	Improve the accuracy of the ML model		Unassigned	● Done
83	Google colab		Unassigned	●	83	Google colab		Unassigned	● Done
66	Implement Google Places API		Unassigned	●	66	Implement Google Places API		Unassigned	● Done
65	Format all data in camel case		Unassigned	●	65	Format all data in camel case		Unassigned	● Done
64	Adjust content according to screen size		Unassigned	●	64	Adjust content according to screen size		Unassigned	● Done
63	Add full screen view for documents on Dog Records page		Unassigned	●	63	Add full screen view for documents on Dog Records page		Unassigned	● Done
62	Add links to features over slideshow		Unassigned	●	62	Add links to features over slideshow		Unassigned	● Done

BURNDOWN CHART





Sprint #6 Retrospective

Did we meet our sprint goal?

Yes, we finished the tasks we planned for this sprint.

Sprint Velocity (current)

- ★ 22 points were planned
- ★ 22 points were completed
- ★ Team members = 6
- ★ Commitment/person/week = 4 hours
- ★ Sprint duration = 2 weeks
- ★ Team commitment this sprint = 48 hours

What worked well in the sprint?

We assigned right amount of tasks for this sprint considering the time for transitioning to working from home and one week of spring break during this sprint.

What could be improved?

In the next sprint, our team should schedule regular online meetings.
Spend more time on improving the accuracy of the machine learning model.



Sprint #6 Retrospective (continued..)

How did we decide user stories with the highest priorities?

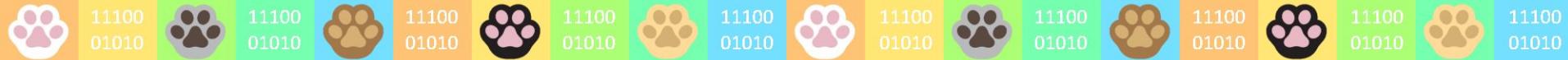
We decided based on which pages lacked quality.

What is the approx. number of in-progress user stories?

There are 0 user stories in progress.

How did the burndown chart look?

Not exactly linear because we had the spring break in middle of the sprint.



Sprint Retrospective Conclusions

1. Researching and working with the machine learning model consumed a lot of time.
2. Even after the machine learning model is trained, we need to find a way to use the model in our web page.

Code Section

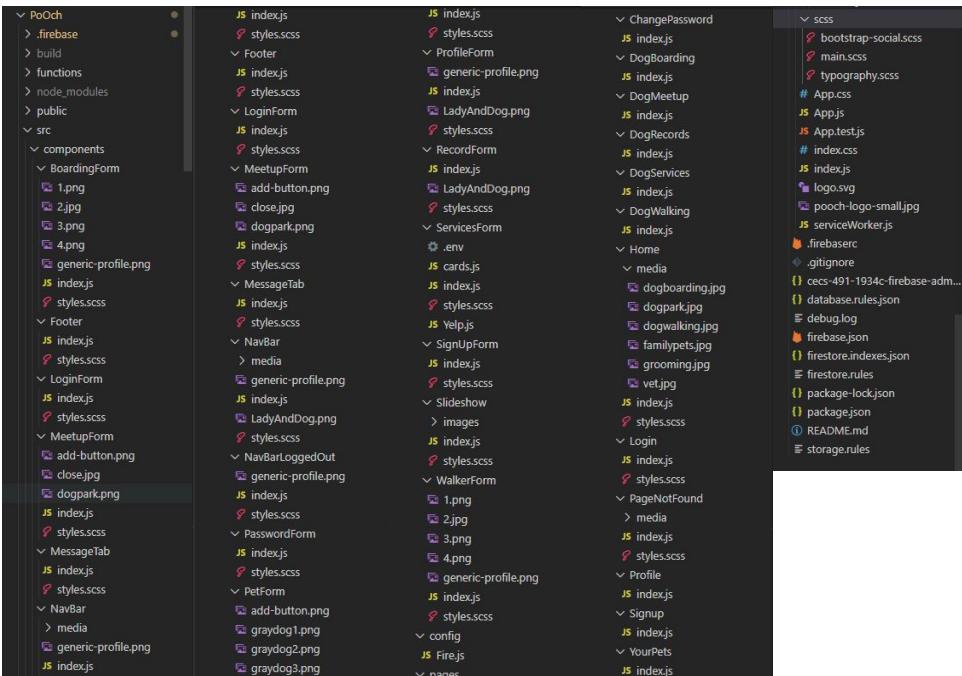


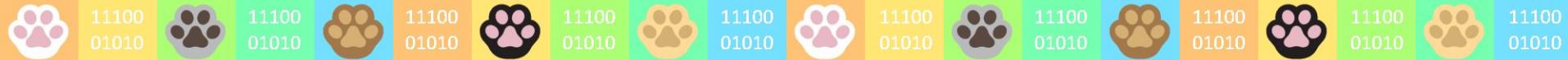
How many lines of code?

~5800 lines of code in the current publicly-available build.

Ln 5851, Col 1

```
1 // BoardingForm.js
2 import React from "react";
3 import { connect } from "react-redux";
4 import { firebase } from "../../config/firebase"; // Firebase
5 import "./BoardingForm.css"; // Styles
6 import Loader from "react-loader-spinner";
7 import { Link } from "react-router-dom";
8 import Close from "../../resources/close.jpg";
9
10 class BoardingForm extends React.Component {
11   constructor(props) {
12     super(props);
13     this.state = {
14       name: "",
15       phone: "",
16       email: "",
17       address: "",
18       city: "",
19       state: "",
20       zip: "",
21       notes: false
22     };
23   }
24
25   handleChange = this.handleChange.bind(this);
26   this.updateSearch = this.updateSearch.bind(this);
27   this.handleSubmit = this.handleSubmit.bind(this);
28
29   handleSearch() {
30     this.setState({ [e.target.name]: e.target.value });
31   }
32
33   updateSearch() {
34     this.setState({ search: e.target.value.substring(0, 10) });
35   }
36
37   componentDidMount() {
38     document.getElementById("loader").style.display = "block";
39     document.getElementById("loading").style.display = "block"; // Clear old data before updating
40     // Order results based on search criteria
41     firebase
42       .database()
43       .ref("dogs")
44       .orderBy("name")
45       .on("value", snapshot => {
46         snapshot.forEach(doc => {
47           const dog = doc.data();
48           if (dog.name === this.state.search) {
49             this.setState({ dogs: [dog] });
50           }
51         });
52       });
53
54     function renderSearch(doc) {
55       const render = () => {
56         const studios = document.createElement("div");
57         studios.innerHTML = doc.data().name;
58         return studios;
59       };
60       return render();
61     }
62     this.setState({ dogs: renderSearch(doc) });
63   }
64
65   handleSubmit(e) {
66     e.preventDefault();
67     var studios = document.querySelectorAll("div");
68     var studios = studios[0].innerHTML;
69   }
70 }
```





Has the code been reviewed?

Yes, a code review was held on April 12 to determine the quality of the current code release.

Has the code been tested?

Yes, the code was tested on April 12 to verify that features were working as intended.



How many clicks to each feature?

All features require four clicks or less

1. View Home **(1)**
2. Create Account **(2)**
3. Login **(2)**
4. Setup Profile **(2-3)**
5. View Profile **(1)**
6. Edit Profile **(2)**
7. Reset Profile **(3)**
8. Setup Pet Profile **(3)**
9. View Pet Profile **(2)**
10. Edit Pet Profile **(3)**
11. Delete Pet Profile **(4)**
12. Search Dog Walker **(2)**
13. Sort Dog Walkers **(2)**
14. View Dog Walkers **(2)**
15. Review Dog Walkers **(4)**
16. Search Dog Boarders **(2)**
17. Sort Dog Boarders **(2)**
18. View Dog Boarders **(2)**
19. Review Dog Boarders **(4)**
20. Search for Dog Services **(3)**
21. Search Meetups **(2)**
22. Sort Meetups **(2-3)**
23. View Meetups **(1)**
24. Mark Going to Meetups **(2)**
25. Create Meetups **(3)**
26. Upload Documents **(3)**
27. View Document **(2)**
28. Delete Documents **(3)**
29. Logout **(1)**



Platform required to experience the released code

Our application can be accessed through any major web browser

- Chrome
- Firefox
- Safari



User Manual for the Code Release



Introduction

Welcome to Pooch!

The dog focused petcare web application which plans to become an all-in-one dog service application, for everything related to pets.

Get started at the link below and then follow along with the manual.

<https://cecs-491-1934c.firebaseio.com/>



1. View Home

- ★ Scroll down to learn about all the great features Pooch has to offer

OR

- ★ Click “POOCH” on the left of the navbar

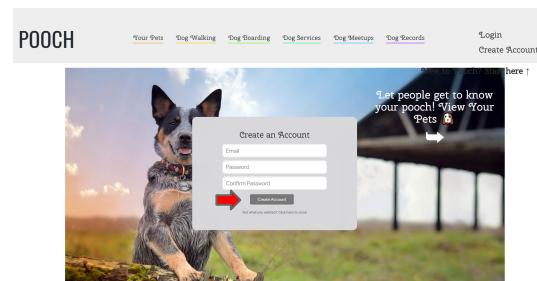
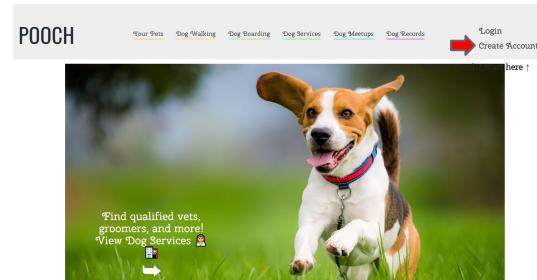
No worries! Pooch dog walkers are here! View Dog Walkers

here ↑



2. Create Account

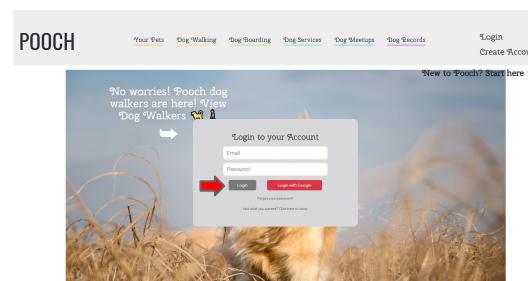
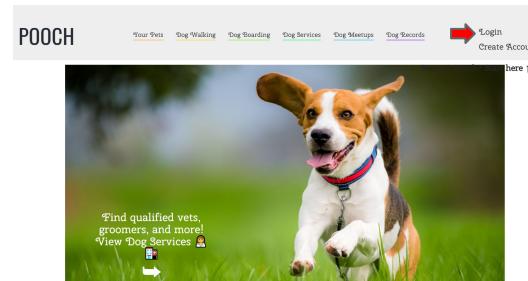
- ★ Click “Create Account” on the right of the navbar
- ★ Enter your email, password, and enter the password again to confirm
- ★ Click “Create Account” on the popup in the center of the screen





3. Login

- ★ Click “Login” on the right of the navbar
- ★ Enter your email and password
- ★ Click “Login” on the popup in the center of the screen





4. Setup Profile

- ★ On first login, you will be prompted to setup your profile
- ★ Click either “Dog Parent” or “Dog Service Provider”
- ★ Select a profile picture, enter your info, then press “Create Parent Profile”

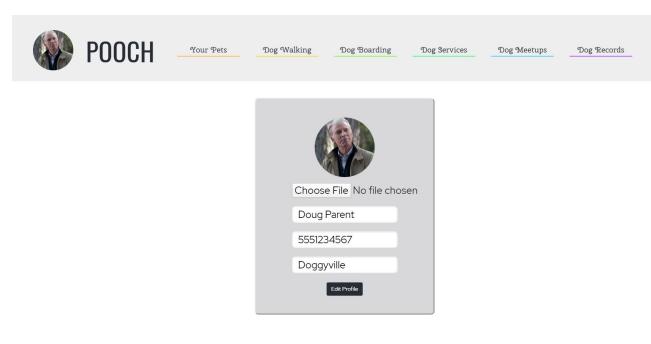
OR
- ★ Click either “Dog Walking” or “Dog Boarding”
- ★ Select a profile picture, enter your info, then press “Create Dog Walking Profile”

OR
- ★ Select a profile picture, enter your info, then press “Create Dog Boarding Profile”



5. View Profile

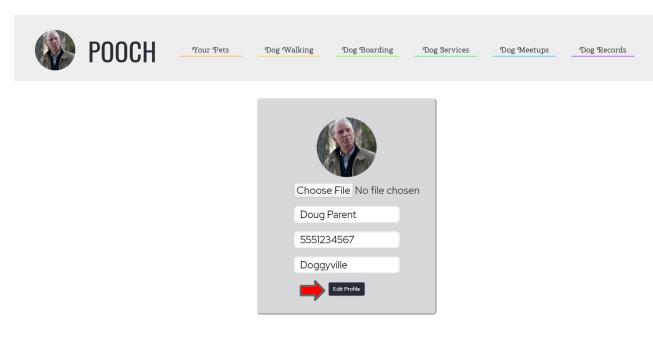
- ★ Hover over the profile picture in the top left
- ★ Click on the picture
- OR
- ★ Click on “Profile” in the dropdown menu that appears





6. Edit Profile

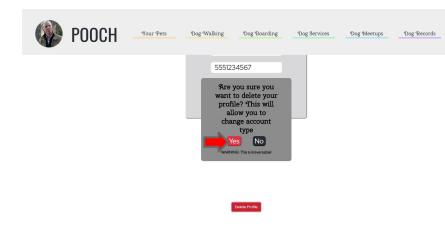
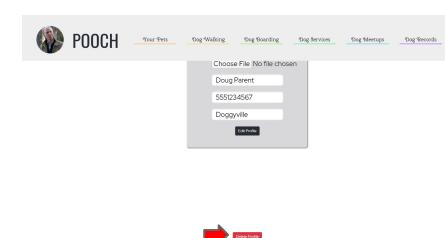
- ★ Hover over the profile picture in the top left
- ★ Click on the picture
- OR
- ★ Click on “Profile” in the dropdown menu that appears





7. Reset Profile

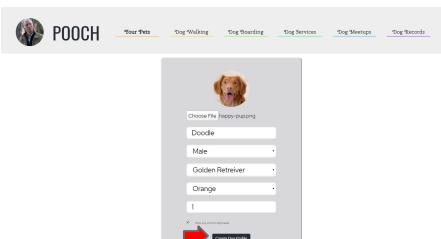
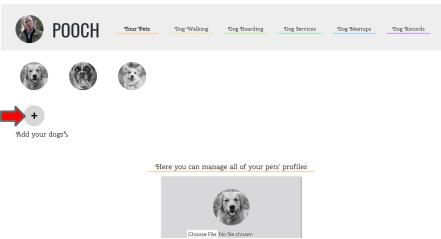
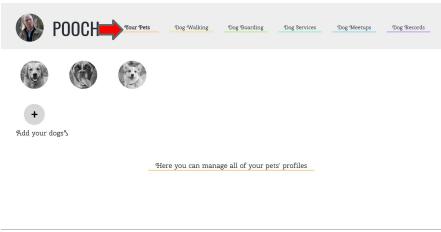
- ★ Click on “Delete Profile” at the bottom of the screen
- ★ Click on “Yes” in the center of the screen





8. Setup Pet Profiles

- ★ Click on “Your Pets” at the top
- ★ Click on the circle with a +
- ★ Select a pet picture, fill out their info, and click “Create Dog Profile” at the bottom





9. View Pet Profiles

- ★ Click on “Your Pets” on the navbar
- ★ Click on circle with your dog’s picture
- ★ Scroll down to view the pet profile

POOCH Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records

Add your dogs!

Here you can manage all of your pets' profiles

POOCH Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records

View dog profile

+ Add dog

POOCH Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records

Choose file No file chosen

Doodle

Male

Golden Retriever

Orange

1



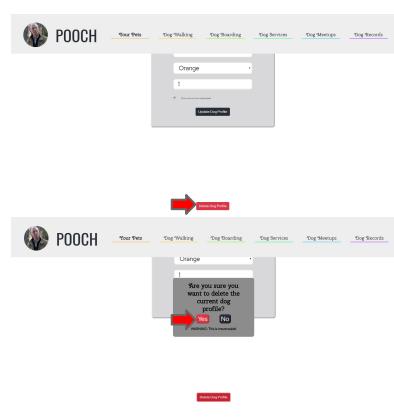
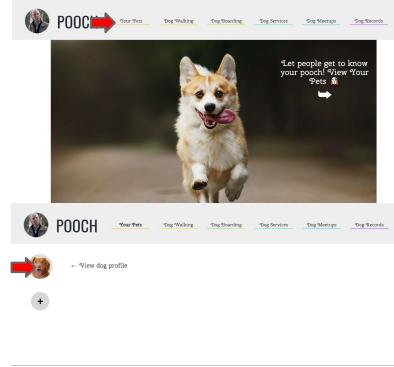
10. Edit Pet Profiles

- ★ Click on “Your Pets” on the navbar
- ★ Click on circle with your dog’s picture
- ★ Change the picture or other info
- ★ Click on “Update Dog Profile” at the bottom



11. Delete Pet Profiles

- ★ Click on circle with your dog's picture
- ★ Click on “Delete Dog Profile” at the bottom
- ★ Click on “Yes” at the center of the screen





12. Search Dog Walkers

- ★ Click on “Dog Walking” on the navbar
- ★ Click on “Search...” in the middle of the screen
- ★ Begin typing for the dog walkers to be filtered, letter by letter (Note: the category to the right of the search bar determines what is being search for)

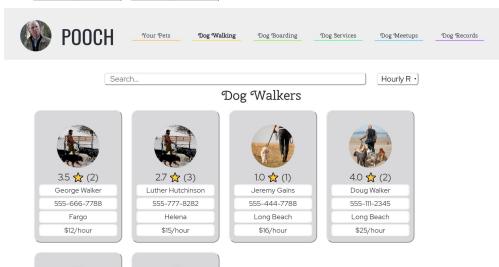
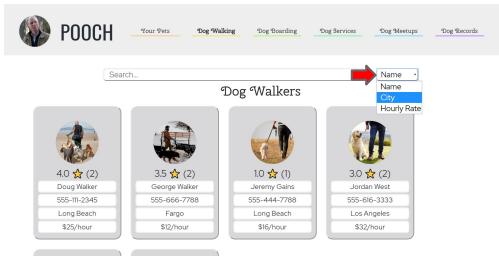
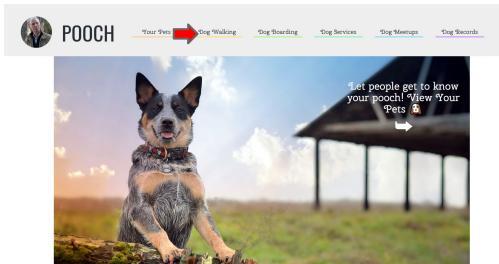
The screenshots illustrate the search process for dog walkers:

- Screenshot 1:** Shows the main dashboard for "Pooch". The "Dog Walking" tab is highlighted in red. A large image of a dog is centered, with text overlay: "Let people get to know your pooch! View Your Pets".
- Screenshot 2:** Shows the search results for "Dog Walkers". A search bar contains "Dog Walkers". Below it, four cards show profiles for Doug Walker, George Walker, Jeremy Gans, and Jordan West, each with a star rating and contact information.
- Screenshot 3:** Shows the search results after filtering by the letter "J". Only two profiles remain: Jeremy Gans and Victoria Frickett, both with a star rating of 2.0.



13. Sort Dog Walkers

- ★ Click on “Dog Walking” on the navbar
- ★ Click on the dropdown menu that says “Name” by default
- ★ Click on “Name”, “City”, or “Hourly Rate” to order dog walkers by that attribute





14. View Dog Walkers

- ★ Click on “Dog Walking” on the navbar
- ★ Click on a tile
- ★ See the walker’s information, average rating, and reviews

The screenshots illustrate the user flow for viewing dog walkers:

- Screenshot 1: Dog Walking Page**
The top navigation bar shows "Your Pets" (highlighted with a red arrow), "Dog Walking", "Dog Boarding", "Dog Services", "Dog Meetups", and "Dog Records". Below the navigation is a large image of a dog sitting outdoors. A call-to-action button "Get people to get to know your pooch! View Your Pets" is visible.
- Screenshot 2: Dog Walkers Grid**
The "Dog Walking" page displays a grid of four walker profiles:
 - Doug Walker: 4.0 stars (2 reviews), 555-111-2345, Long Beach, \$25/hour
 - George Walker: 3.5 stars (2 reviews), 555-666-7788, Fargo, \$12/hour
 - Jeremy Garts: 1.0 star (1 review), 555-444-7788, Long Beach, \$10/hour
 - Jordan West: 3.0 stars (2 reviews), 555-616-3333, Los Angeles, \$32/hour
- Screenshot 3: Dog Walker Detail Page**
A modal window provides detailed information about Doug Walker:
 - Profile picture and name: Doug Walker
 - Contact info: 555-111-2345, Long Beach, \$25/hour
 - Rating: 4.0 stars (2 reviews)
 - Review placeholder: Write a review...
 - Review summary: Dog likes him
 - Availability note: He is always available to walk my dogs when I'm at work



15. Review Dog Walkers

- ★ Click on “Dog Walking” on the navbar
- ★ Click on a tile
- ★ Click on the empty stars on the right to set your rating
- ★ Type in your review
- ★ Click on “Submit Review”

The screenshots show the Pooch app's user interface for reviewing dog walkers:

- Screenshot 1:** The homepage features a banner with a dog and the text "Let people get to know your pooch! View Your Pets". Below the banner is a search bar and a "Dog Walkers" section.
- Screenshot 2:** The "Dog Walkers" section displays four profiles:
 - Doug Walker: 4.0 stars (2 reviews), 555-111-2345, Long Beach, \$25/hour
 - George Walker: 3.5 stars (2 reviews), 555-666-7788, Fargo, \$12/hour
 - Jeremy Garts: 1.0 star (1 review), 555-444-7788, Long Beach, \$10/hour
 - Jordan West: 3.0 stars (2 reviews), 555-616-3333, Los Angeles, \$32/hourA red arrow points to the empty star rating field for Doug Walker.
- Screenshot 3:** A review modal for Doug Walker is open:
 - Rating: 4.0 stars (2 reviews)
 - Review text: "A genuinely kind-hearted person who has helped my dog maintain a healthy weight."
 - Star rating input field: Five empty stars (red arrow).
 - Buttons: "Submit" (disabled) and "Cancel".
 - Comments from other users:
 - Dog likes him
 - He is always available to walk my dogs when I'm at work



16. Search Dog Boarders

- ★ Click on “Dog Boarding” on the navbar
- ★ Click on “Search...” in the middle of the screen
- ★ Begin typing for the dog boarders to be filtered, letter by letter (Note: the category to the right of the search bar determines what is being search for)

The screenshots show the progression of a search for dog boarders:

- Screenshot 1:** The homepage features a banner with a dog and the text "Let people get to know your pooch! View Your Pets". The "Dog Boarding" link in the top navigation bar is highlighted with a red arrow.
- Screenshot 2:** The search results page for "Dog Boarders" is shown. A search bar contains "Search..." and a dropdown menu shows "Name". Four search results are displayed, each with a thumbnail, rating (e.g., 3.0 ★ (1)), name, phone number, address, and price per day.
- Screenshot 3:** The search results page after entering the letter "D". Only one result, "Happy Doggy Stay", is shown, indicating the search has been filtered by the initial letter.



17. Sort Dog Boarders

- ★ Click on “Dog Boarding” on the navbar
- ★ Click on the dropdown menu that says “Name” by default
- ★ Click on “Name”, “Address”, “City”, or “Daily Rate” to order dog boarders by that attribute

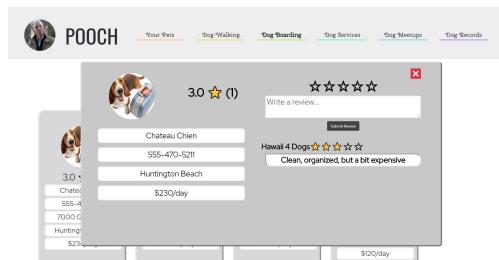
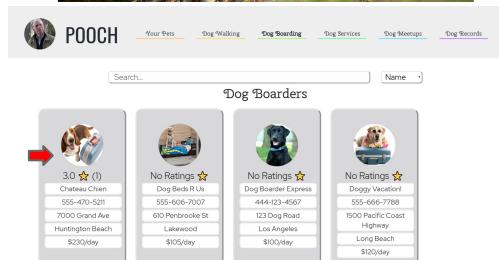
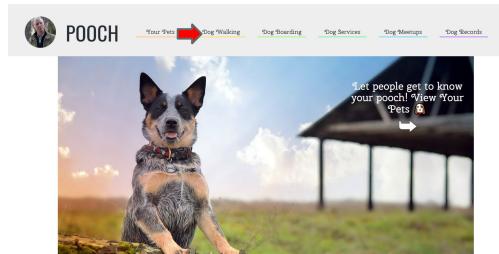
The screenshots show the Pooch website interface for sorting dog boarders:

- Screenshot 1:** Shows the homepage with a banner for "Pet people get to know your pooch! View Your Pets". The "Dog Boarding" link in the top navigation bar is highlighted with a red arrow.
- Screenshot 2:** Shows the "Dog Boarders" page with four cards. A dropdown menu above the cards shows "Name" selected, indicated by a red arrow. The cards list:
 - Chateau Chen (3.0 stars, 1 rating) - Address: 555-470-5211, City: Huntington Beach, Daily Rate: \$20/day
 - Dog Beds R Us (No Ratings) - Address: 605 Penrose St, City: Lakewood, Daily Rate: \$105/day
 - Dog Boarder Express (No Ratings) - Address: 444-123-4567, City: Los Angeles, Daily Rate: \$100/day
 - Doggy Vacation! (No Ratings) - Address: 555-666-7788, City: Long Beach, Daily Rate: \$120/day
- Screenshot 3:** Shows the same "Dog Boarders" page after changing the sorting dropdown to "Daily Rate". The cards now list:
 - Dog Boarder Express (No Ratings) - Address: 444-123-4567, City: Los Angeles, Daily Rate: \$100/day
 - Dog Beds R Us (No Ratings) - Address: 605 Penrose St, City: Lakewood, Daily Rate: \$105/day
 - Doggy Vacation! (No Ratings) - Address: 555-666-7788, City: Long Beach, Daily Rate: \$120/day
 - Happy Doggy Stayz (5.0 stars, 1 rating) - Address: 555-765-1234, City: Corona Del Mar, Daily Rate: \$170/day



18. View Dog Boarders

- ★ Click on “Dog Boarding” on the navbar
- ★ Click on a tile
- ★ See the boarder’s information, average rating, and reviews





19. Review Dog Boarders

- ★ Click on “Dog Boarding” on the navbar
- ★ Click on a tile
- ★ Click on the empty stars on the right to set your rating
- ★ Type in your review
- ★ Click on “Submit Review”

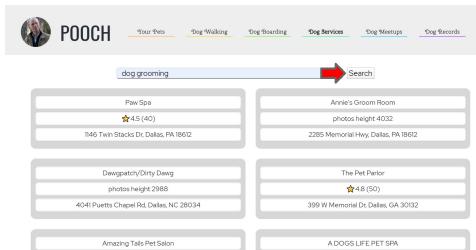
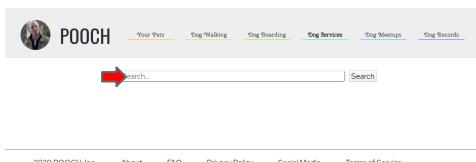
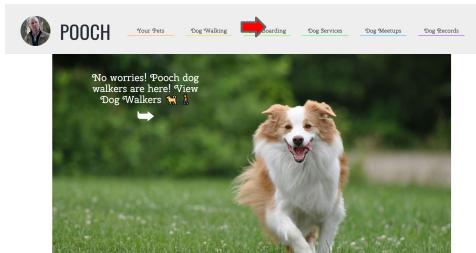
The screenshots show the Pooch app's user interface:

- Screenshot 1:** The app's main page (Dashboard) with a banner featuring a dog and the text "Let people get to know your pooch! View Your Pets". The "Dog Boarding" tab in the top navigation bar is highlighted with a red arrow.
- Screenshot 2:** The "Dog Boarders" search results page. A red arrow points to the first boarder's profile card, which shows "No Ratings" and a star icon.
- Screenshot 3:** The same "Dog Boarders" page after a review has been submitted. The first boarder's profile card now shows a 5-star rating and the review text: "Excellent customer service. They were available on short notice and have a". A red arrow points to the review text.



20. Search for Dog Services

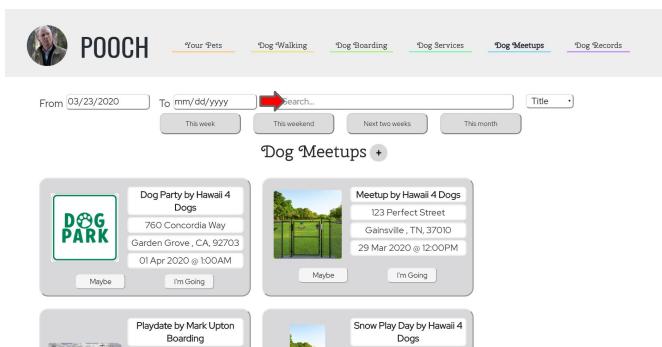
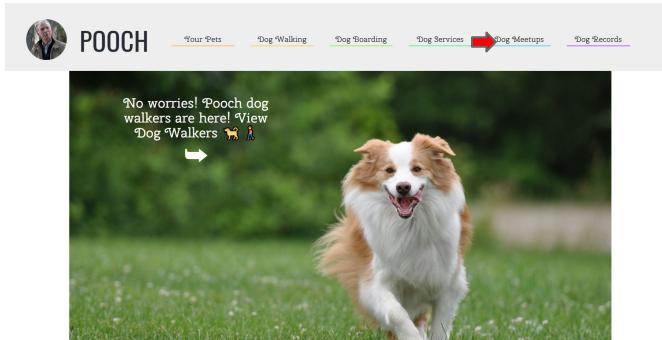
- ★ Click on “Dog Services” on the navbar
- ★ Click on “Search...” in the middle of the screen
- ★ Type in a dog service e.g. dog grooming, vet, etc.
- ★ Click on the “Search” button
- ★ Results will be shown based on the city listed in your profile





21. Search Meetups

- ★ Click on “Dog Meetups” on the navbar
- ★ Click on “Search...”
- ★ Begin typing for the meetups to be filtered, letter by letter (Note: the category to the right of the search bar determines what is being search for)





22. Sort Meetups

- ★ Click on “Dog Meetups” on the navbar
- ★ Click on the dropdown menu that says “Title” by default
- ★ Click on “Title”, “Address”, “City”, or “Zipcode” to order meetups by that attribute
- ★ Click on “This Week”, “This Weekend”, “Next Two Weeks”, or “This Month” to see meetups

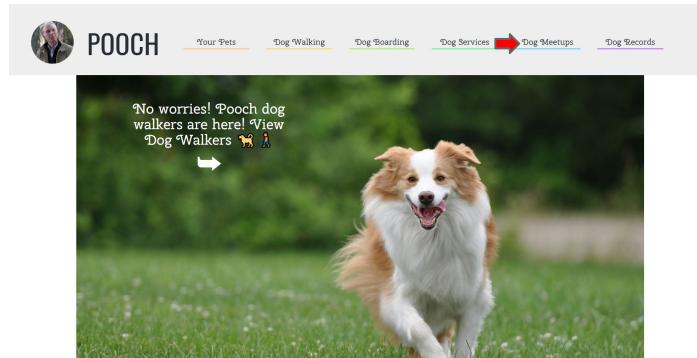
The screenshots show the 'Dog Meetups' section of the Pooch website. The first screenshot shows a banner with a smiling dog and the text 'No worries! Pooch dog walkers are here! View Dog Walkers'. The second screenshot shows the search interface with a dropdown menu set to 'Title'. The third screenshot shows the results page with several meetup listings, each with a thumbnail, title, address, date, and a 'Maple' or 'Hickory' button.

Meetup Title	Address	Date	Action Buttons
Dog Party by Hawi 4 Dogs	760 Concordia Way, Garden Grove, CA 92703	29 Mar 2020 @ 10:00AM	Maple Hickory
Meetup-by-Hawi 4 Dogs	123 Perfect Street, Germantown, TN 38138	01 Apr 2020 @ 10:00PM	Maple Hickory
Snow Play Day by Hawi 4 Dogs	234 Perfect Street, Germantown, TN 38138	29 Mar 2020 @ 12:00PM	Maple Hickory



24. View Meetups

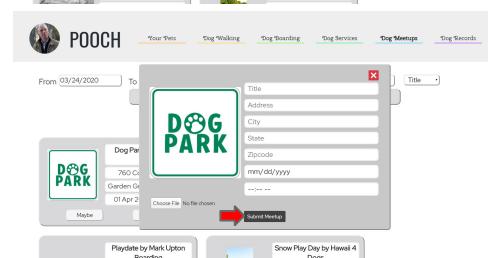
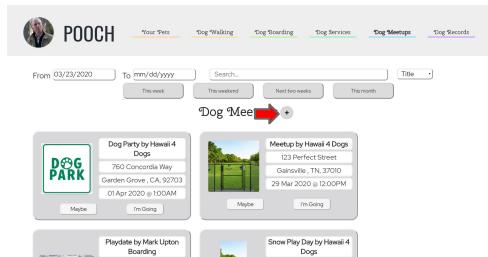
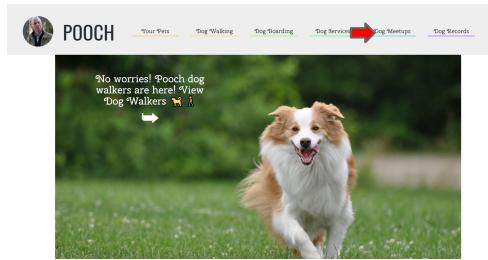
- ★ Click on “Dog Meetups” on the navbar
- ★ Scroll down to see the meetup





25. Create New Meetup

- ★ Click on “Dog Meetups” on the navbar
- ★ Click on the plus button
- ★ Fill out the form with your planned time and location
- ★ Click “Submit Meetup” at the bottom of the form





26. Upload Document

- ★ Click on “Dog Records” on the navbar
- ★ Click on “Choose File” in the middle and select the document in your computer you want to upload
- ★ A preview of your document will be generated
- ★ Click “Upload Dog Record” below the preview

POOCH

Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records

going out of town? Find accommodations with Pooch! View Dog Boarders ↗

POOCH

Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records

✓ First, select the document you want

Choose File No file chosen

Upload Dog Record

Then, click upload

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POOCH

Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records

✓ First, select the document you want

Choose File check-in-form.jpg

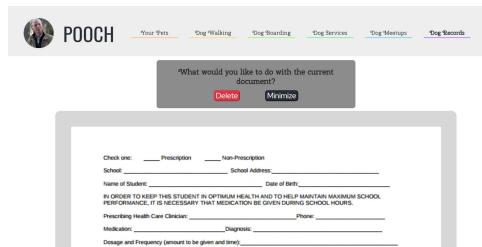
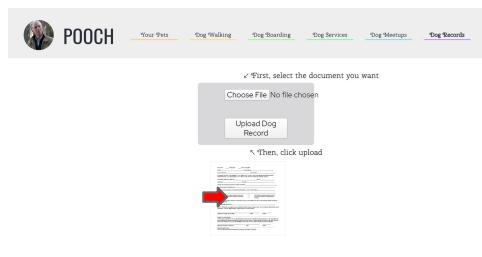
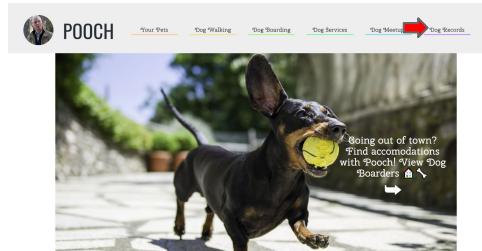
Upload Dog Record

Then, click upload



27. View Documents

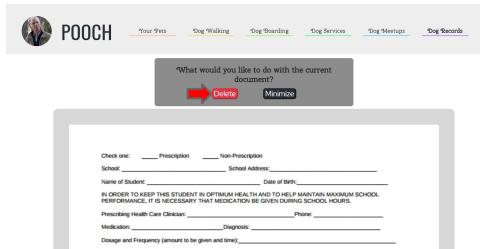
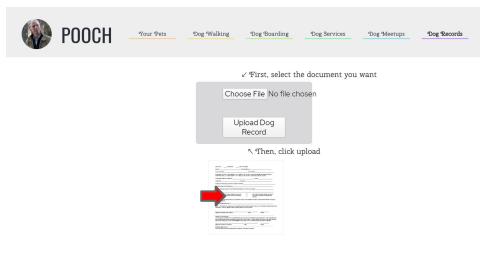
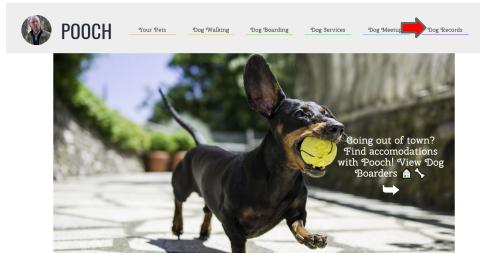
- ★ Click on “Dog Records” on the navbar
- ★ Scroll down the page until you see small previews of your records
- ★ Click on a document to view fullscreen





28. Delete Documents

- ★ Click on “Dog Records” on the navbar
- ★ Scroll down the page until you see small previews of your records
- ★ Click on a document to view fullscreen
- ★ Click on “Delete”





29. Logout

- ★ Hover over the profile picture on the navbar
- ★ Click on “Logout”

The screenshot shows the Pooch app's user profile page. At the top left is a circular profile picture of an elderly man. To his right is the word "POOCH". Below the profile picture are two buttons: "Profile" (with a person icon) and "Logout" (with a door icon). A red arrow points from the text "Click on ‘Logout’" to the "Logout" button. At the top of the main content area are several navigation links: "Your Pets", "Dog Walking", "Dog Boarding", "Dog Services", "Dog Meetups", and "Dog Records". In the center, there is a large input field with the placeholder "Choose File | No file chosen". Above this field is a note: "✓ First, select the document you want". Below the input field is a button labeled "Upload Dog Record". To the right of this section is a note: "✗ Then, click upload". At the bottom of the page, there are three examples of the "Pet Vaccination Record" form, each with a different background color (light blue, white, and light green).



While the demo is playing, feel free to ask questions

[Sprint 6 Demo.mkv](#)

<https://cecs-491-1934c.firebaseioapp.com/>



End of Sprint 7 Presentation

POOCH