



POOCH

Manage Pets
Dog Services

Dog Walking
Dog Meetups

Dog Boarding
Dog Records

Sprint #8 Brought To You By:

Shashi Kumar Kadari Mallikarjuna
Sukriti Agarwal
Hamza Mekouar

Brandon Winn
Dhiren Lalwani
Daniel Li



Updates to BRD?

None

Updates to Architecture and Design Document?

Machine Learning Write Up



Updates to Management Plan?

Gantt Chart, Sprint Retrospective, and Sprint Board



How many total user features/stories are there?

There are currently a total of **31 features** offered to the user through our web application and **all are essential.** (100%)

- | | | |
|----------------------|-------------------------|-----------------------------|
| 1. View Home | 11. Edit Pet Profile | 21. Search for Dog Services |
| 2. Create Account | 12. Delete Pet Profile | 22. Search Meetups |
| 3. Login | 13. Search Dog Walker | 23. Sort Meetups |
| 4. Recover Password | 14. Sort Dog Walkers | 24. View Meetups |
| 5. Setup Profile | 15. View Dog Walkers | 25. Mark Going to Meetups |
| 6. View Profile | 16. Review Dog Walkers | 26. Create Meetups |
| 7. Edit Profile | 17. Search Dog Boarders | 27. Delete Meetups |
| 8. Reset Profile | 18. Sort Dog Boarders | 28. Upload Documents |
| 9. Setup Pet Profile | 19. View Dog Boarders | 29. View Document |
| 10. View Pet | 20. Review Dog Boarders | 30. Delete Documents |
| | | 31. Logout |



Epics

- 1. User Login
- 2. User Signup
- 3. Pet profile
- 4. User profile
- 5. Home page
- 6. Dog walking
- 7. Dog Boarding
- 8. Dog Services
- 9. Dog Meetup
- 10. Dog records
- 11. Logout



User Stories Released This Sprint

1. Work on displaying all the features of our application even when the user is logged out
2. Add city selection to Services page
3. Updated Services Page with tags and more accurate results
4. Gray out meetups that happened in the past
5. Users can click the “My Meetups” button to see their hosted meetups
6. Show users count of how many other people have marked maybe/definitely going to a meetup
7. Users can view meetup attendees
8. User can delete their meetups
9. Test all the user features that we deployed to check for any bugs and fix them
10. Improving machine learning model
11. Update all documents
12. Researching on the ways to integrate the ML model into our web application



Testing

We have performed both white box and black box testing. Testing is done manually through VS Code on our Local Host or the Web App itself.

Did we test everything we wanted to test?

Yes, we tested through all 31 user features with all user profile types from sign up to sign out.



How did we generate Test cases?

- **We use Basic Path Testing.**
 - This is a white box testing method that defines test cases based on the logical workflow of tasks, which a user takes to reach a certain feature, then use the feature and finally exit from a feature.
- **User Surveys**
 - The criteria we used for the features to be selected are based on the user's usage and expectations of the features. User surveys were held, asking users their expectations, and accordingly tests were made.
 - This sprint, user stories were based on what features were requested by users and needed bug fixing.



Business Case of ML Model

The Machine Learning model, plans to validate the uploaded pictures of pets, so random users/**spammers can be kept away** from the website. The benefit of using the ML model is validation of genuine users and **restriction of fake profiles**, so the dog services can only be provided to the official site users.

Thus the users will have access to **more reliable dog walkers**, dog service providers and dog boarders. The dog meetups will only be schedules by legit dog owners, and hence users can use the website carefree and in a non-hesitant manner.



How Many Features in a Data Sample?

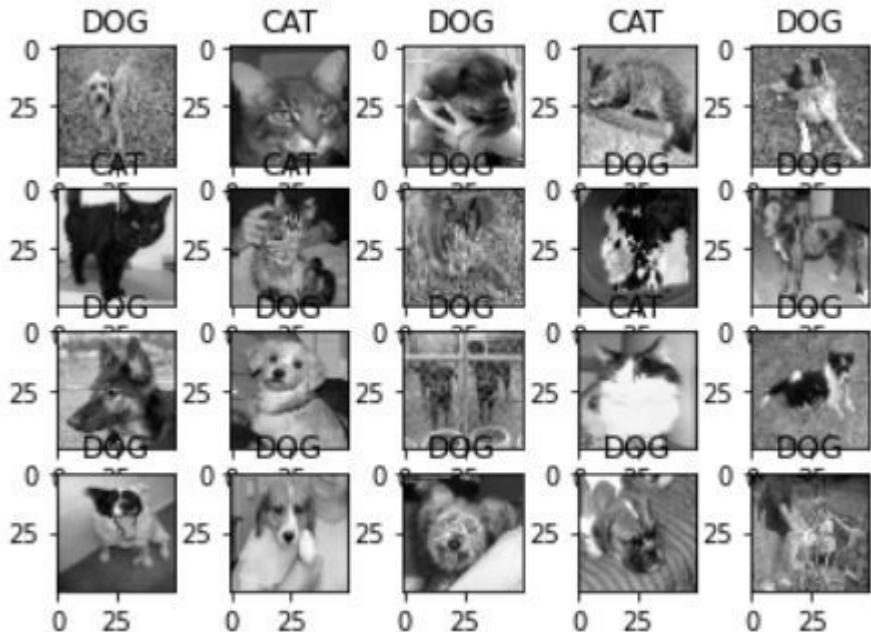
A CNN model is used to detect whether images being uploaded to pet profiles are actually dogs or not.

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

The X label is the uploaded image and Y label is the label of “Dog” or “Cat”.



Plot the Data Correlation between Features and Labels.



Once the preprocessing of the training data was done, this was the initial data that was plotted. For a sample, random 20 images were plotted with the images and a random label with almost no training done. RELU was used as the activation function for preprocessed training data.



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  >





Kaggle Dataset

The team performed a supervised model for Machine Learning.

We are used Kaggle for the labelled dataset.

The link for the working dataset can be found here:

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



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

We are planning on deploying the machine learning model as an **API**.



Machine Learning Building 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



Machine Learning Deployment Alternatives

Convert the Python Model into a Javascript Version

- Javascript can make us lose some great python libraries

Utilize npm Module PyNode

- Does not sound like a great alternative to the proceeding

Deploy the Python ML Model as an API:

- This would be a great way to deploy our machine learning model



The Training Dataset

The training dataset contains about 25,000 images of dogs and cats (which we used as images for no dogs).

The Test Dataset

The test dataset contains about 12,500 images of dogs and cats.



Libraries used in the Model training:

We used the following libraries:

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 better train for our model)
5. Tflearn layers and conv for convolution.



Computation Requirements

The processing power required will be quite large, since the training dataset is a **very large dataset**, and shuffled training will definitely require even more time and resources on a computer. Hence, the team developed the model on Google Collab. The images were all **50 x 50 images**, about **25,000 images** in the training dataset, hence a lot of pixels per image. There were several save points in the code like updated training model save, and if else codes for the saved models, which saves time for the final computation.

The **current model takes about ~1 hr** to compute as a whole.



Technological Depth

- ★ We are trying to integrate the ML model into our web application as an API.
- ★ We are using google places API to look for nearby dog services and show the data in our application.
- ★ We are using firebase to host our application.
- ★ We performed white box testing which resulted in a lot of test cases.



How many APIs and servers are there?

Firebase API

Connects the JSX code to the Firebase server
Critical component of architecture

Google Places API

Connects Dog Services page to search results
Important to create a key feature

2 APIs are currently being used

Firebase Server

Hosts web application at publically available URL
Critical component of the architecture

1 server is currently being used



What type of Object Relational Model (ORM), Object Data Modeling (ODM) library or driver is used in the connection of the database to the server?

The **Firebase SDK** hosted by NPM is used to connect the database to the server.



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

Our model initially had 4 layers (1 input layer, 2d convnet 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 93% accuracy with a loss of about 14%.



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 Progress





Current ML Accuracy

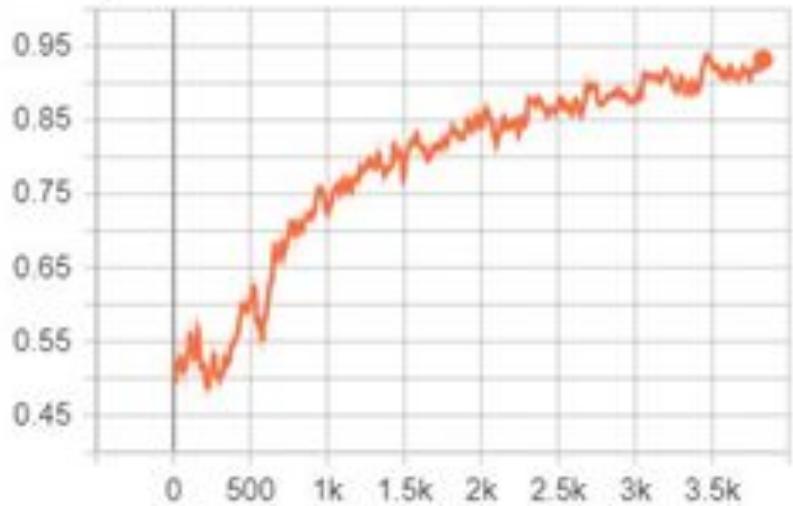
Our current model has 10 epochs, and an average accuracy of 93%, with a 14% average loss.

```
C:\ Training Step: 3829 | total loss: 0.15440 | time: 447.541s  
| Adam | epoch: 010 | loss: 0.15440 - acc: 0.9349 -- iter: 24448/24500  
Training Step: 3830 | total loss: 0.14685 | time: 450.883s  
| Adam | epoch: 010 | loss: 0.14685 - acc: 0.9383 | val_loss: 0.55104 - val_acc: 0.8420 -- iter: 24500/24500  
--
```



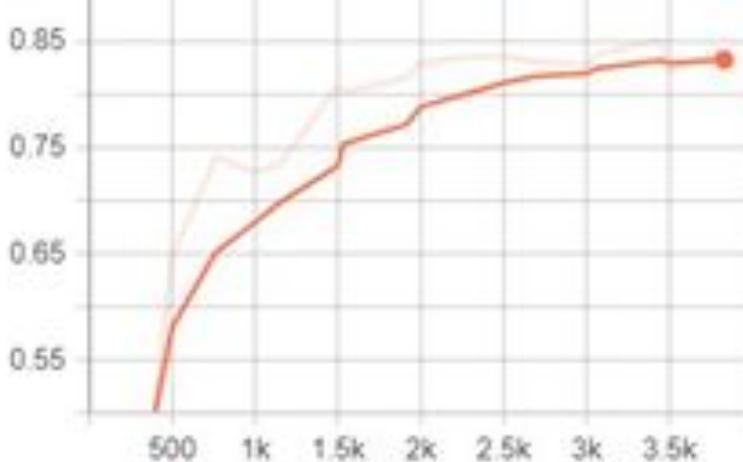
Underfit or Overfit Model?? (Accuracy Graph)

Accuracy



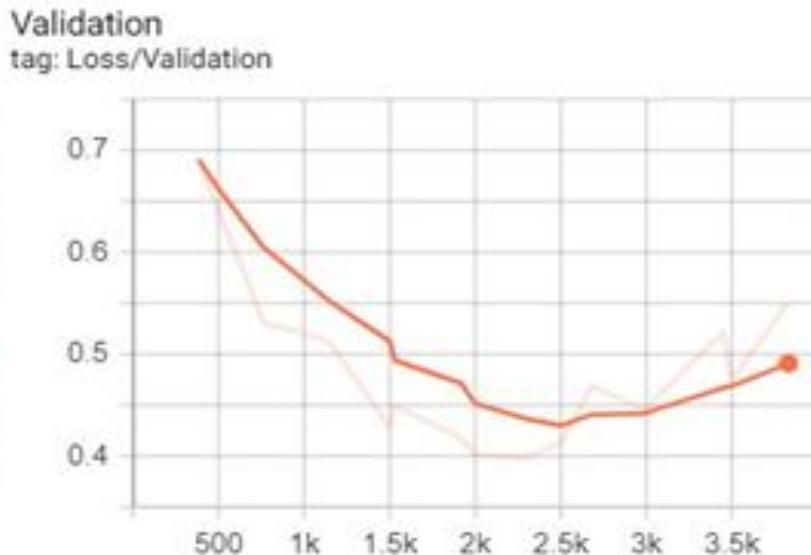
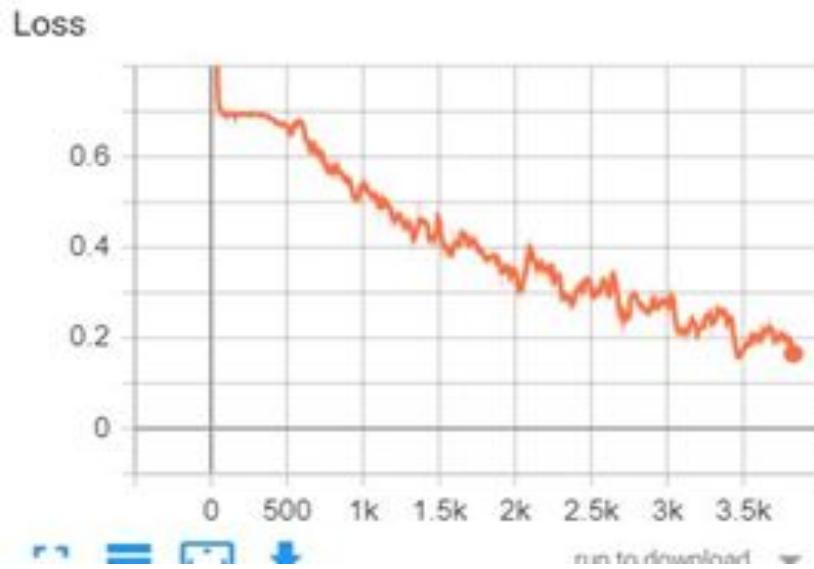
Validation

tag: Accuracy/Validation





Underfit or Overfit Model?? (Loss Graph)





Challenges faced during the Model Training

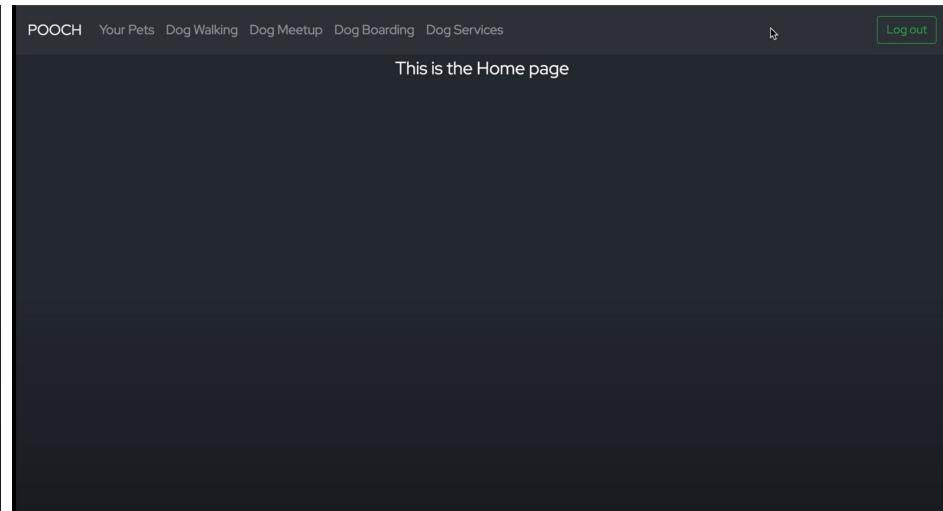
- To wait for the model to run is very frustrating because it takes a little more than 1 hour, also at the end you might not be happy with the results
- The newer version of tensorflow had problems with tflearn regression, so we had to downgrade the version to 1.13.2
- It took us a long time to set the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

PPOCH

Through the Ages



Sprint #0





Sprint #1

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

Log Out

Your One Stop for Puppers, Doggos, and Good Bois

First Last

Services Happening Near You

Dog Boarder Needed

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui. Quisque nec mauris sit amet elit iaculis pretium sit amet quis magna. Aenean velit odio, elementum in

Dog Meetup in Long Beach

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui. Quisque nec mauris sit amet elit iaculis pretium sit amet quis magna. Aenean velit odio, elementum in

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

POOSE

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

Log Out

Add Pet

Description

Add Pet Photos

Care Instructions

Extended Profile

Microchip

Spayed / Neutered

Gets along w/ children

Gets along w/ dogs

Gets along w/ cats

House Trained

Name

Weight (lb)

Age

Sex

Breed

Veterinary Information [Add Records](#)

Cancel Save

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

POOSE



Sprint #2

POOCH - Your Pets. Dog Walking. Dog Boarding. Dog Services. Dog Health. Dog Records.

POOCH

Email | Chat

Password | Forgot

Login | Sign Up |

Your one stop shop for puppies, doggos, and good boys

Display Name

This is what the community will see you as!

Age

Bio

Profile Picture

Update Profile

POOCH - Your Pets. Dog Walking. Dog Boarding. Dog Services. Dog Health. Dog Records.

Local Dog Walkers

Walker Name	Phone Number	Hourly Rate	City
George Walker	5556667788	12	Fargo
Luther Hutchinson	555778282	15	Helena
Doug Walker	55512345	25	Long Beach
Jeremy Gains	5554447788	16	Long Beach
Bark Twain	5628472986	23	Long Beach
Franklin Clifford	5626785467	20	Long Beach
Fran Ferdinand	5621827563	27	Long Beach
Jimmy Chew	5629384916	21	Long Beach
Mary Puppins	5620379327	20	Long Beach
Wimble Poodle	5620373739	26	Long Beach
Doc McDoggins	5622378473	22	Long Beach
Sarah Jessica Barker	5628482910	45	Long Beach
Droolius Caesar	5629304850	25	Long Beach
Sherron Bonie	5628471973	19	Long Beach
Victoria Prichett	5554443939	32	Los Angeles
Jordan West	5556163333	32	Los Angeles
Hank Feeney	6195793022	28	San Diego
Juana Langosh	6192048495	24	San Diego

POOCH - Your Pets. Dog Walking. Dog Boarding. Dog Services. Dog Health. Dog Records.

Your Pets' Medical Records: All in One Place

Add Document



Sprint #3

Your one stop shop for puppies, doggos, and good boys

Profile
Display Name
Bio
of Pets

This is what the community will see you as!
Metropolitan Area
New York, NY

New Dog Walkers New Dog Boarders

Name	City
Tom Lowell	Long Beach
Daniel Li	Long Beach
Doug Walker	Long Beach

Name	City
Grace Phillips	Long Beach
Daniel Li	Long Beach
Bruce	Long Beach

News Box News Box

Your Pets

Pet Name	Gender	Breed	Color	Date of Birth
Bruce		Appenzeller-Sennenhund	Black	2019-12-02
Zeus	M	Beagle	White	2019-11-20

Description:
White with black spots

Got more pups? Add them below!

Pet Name
Gender
M

Local Dog Walkers

Walker Name	Phone Number	Hourly Rate
Brandon	5550121234	25
Daniel Li	6192121393	15
Doug Walker	5625551234	15
Tim Lowell	3109891091	15

Search By...
Name
Phone
Rate
City

Get Started as a Verified Dog Walker

Profile
Display Name
Bio
of Pets

This is what the community will see you as!
Metropolitan Area
New York, NY

A paragraph about POOCH goes here

New Dog Walkers New Dog Boarders

Relevant Picture

< Slideshow >

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About

FAQ

Privacy Policy

Social Media

Terms of Service



Sprint #4

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

Paragraph I will go here. This paragraph will talk about the features of the Your Pets page. Paragraph I will go here. This paragraph will talk about the features of the Your Pets page. Paragraph I will go here. This paragraph will talk about the features of the Your Pets page.

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

POOCH

Email: Email

Password: Password

Confirm Password: Password

[Not what you wanted? Go back to login](#)

[Create Account](#)

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

Edit Your Profile

Display Name:

This is what this community will see you as! Metropolitan Area:
New York, NY

Photo Description: Bio:

of Pets: [Edit](#)

Dog Services

Local Dog Supply Stores:

Local Dog Grooming Services:



Sprint #5

POOCH

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

Login Create Account

New to Pooch? Start here ↗

Login to your Pooch account
myEmail@gmail.com
.....
Login Log in with Google
Forgot your password?
Not what you wanted? Click here to close

POOCH

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

+ View dog profile

Choose File (No file chosen)
Goldilocks
Female ·
Golden Retriever ·

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:

33.785002|100.000001
-18.137572|60.000001

Total Dog Grooming Services:

POOCH

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

Choose File (No file chosen)
Steve Rogers
55511233
New York City
Edit Profile

POOCH

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

Search... City ·

Dog Walkers

 3.6 ★ Lela 555-333-4444 Austin 20	 3.2 ★ Luther Hutchinson 555-777-8282 Helena 15	 4.2 ★ Doug Walker 555-111-2345 Long Beach 25	 4.2 ★ Jeremy Gains 555-444-7788 Long Beach 75	 3.5 ★ Victoria Pritchett 555-444-3939 Los Angeles 32
---	--	--	---	--

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:

PARENT/GUARDIAN INFORMATION

Father's Name: Home Phone: Work Phone:
Mother's Name: Home Phone: Work Phone:
Sibling's Name: Home Phone: Work Phone:
In an emergency, where can we be reached?: Home Phone: Work Phone:

Medical and/or Hospital Insurance Company: Policy Number: Policy Type: Policy Holder:

EMERGENCY CONTACT INFORMATION

Player's Name: Home Phone: Work Phone:
Medical and/or Hospital Insurance Company: Policy Number: Policy Type: Policy Holder:

PARAGRAPH WITH STATEMENT OF PARENT/GUARDIAN CONSENT AND MEDICAL RELEASE

By signing this Parent/Guardian Consent and Player Medical Release Form, I acknowledge that I have read and understood the Pooch Terms of Service and Privacy Policy, and I agree to be bound by them. I also acknowledge that my child is participating in the Pooch Program, and I understand that my child may be photographed or videoed while participating in the Pooch Program, and I agree to allow Pooch to use such photographs or video recordings for promotional purposes.



Sprint #6

POOCH

Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records Login Create Account

New to Pooch? Start here !

Never miss your friends with Pooch! View Dog Meetups ➔

POOCH

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

Dog Walker

4.0 ⭐ (2)
Dog likes him

Doug Walker
555-111-2345
Long Beach
\$25/hour

4.0 ⭐ (2)
Dog likes him
He is always available to walk my dogs when I'm at work.

POOCH

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

From: 03/24/2020 To: mm/dd/yyyy Search... Title...

This week This weekend Next two weeks This month

Dog Meetups +

Dog Party by Hawaii 4 Dogs
760 Concordia Way
Garden Grove, CA 92703
01 Apr 2020 @ 10:00AM

123 Perfect Street
Gainesville, TN 37010
29 Mar 2020 @ 12:00PM

Playdate by Mark Upton Boarding

Snow Play Day by Hawaii 4 Dogs

POOCH

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

Choose File No file chosen

Mark Upton Boarding
5556431123
5200 Third Street
Chicago
50

Show More ▾ Edit Profile

POOCH

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

vets

Search

Primary Care Animal Hospital
4.6 (401)
2200 N Lakewood Blvd, Long Beach, CA 90815

Ambassador Long Beach Veterinary Hospital
4.6 (330)
2251 E Carson St, Long Beach, CA 90807

Bixby Animal Clinic
4.5 (35)
3938 Atlantic Ave, Long Beach, CA 90807

Pine Animal Hospital & Integrative Wellness Center
4.6 (276)
900 Pine Ave, Long Beach, CA 90813

Cats & Dogs Animal Hospital

Affordable Care Animal Hospital Long Beach

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
Student Name: _____
Campus ID Number: _____
HOUSEHOLD VERIFICATION (2017 - 2018)
Check the box that matches your dependency status and Complete the Household Chart
 DEPENDENT INDEPENDENT

01409024 2018 FSDW
17-18 FSDWV



Sprint #7

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

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

dog grooming Search

Soggy Dog Pet Grooming ★ 4.7 (105) 2001 E 7th St, Long Beach, CA 90804	Pupazzo Dog Grooming Xprss & Pet Supplies ★ 4.7 (44) 2080 Pacific Coast Hwy, Long Beach, CA 90804
Pawtively Long Beach ★ 4.7 (43) 254 Elm Ave, Long Beach, CA 90802	Belmont Pets & LaunderPet ★ 4.6 (52) 3429 E Broadway, Long Beach, CA 90803
The Pet Set ★ 4.3 (77) 3960 Cherry Ave, Long Beach, CA 90807	Spoiled Paws Grooming Co ★ 4.4 (27) 676 Redondo Ave, Long Beach, CA 90814

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

Dog Walkers

Allia Thiel 5.0 ★ (1) 619-037-4838 San Diego \$19/hour
Angus Sauer No Ratings ★ 619-830-4850 San Diego \$23/hour
Bark Twain 4.0 ★ (1) 562-847-2918 Long Beach \$23/hour

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

Dog Boarders

All Fur Fun Dog Day Care No Ratings ★ 562-928-3847 928 Furway Pl Long Beach \$140/day
Alphonso Schiller No Ratings ★ 619-208-4083 209 Cotton Circle San Diego \$85/day
Annalise Ryan No Ratings ★ 562-847-2918 Long Beach \$23/hour

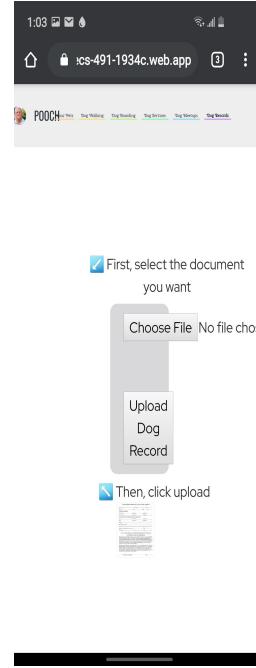
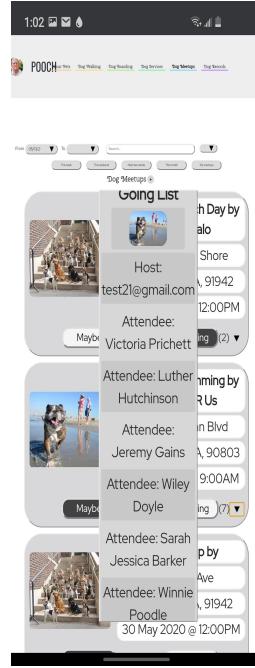
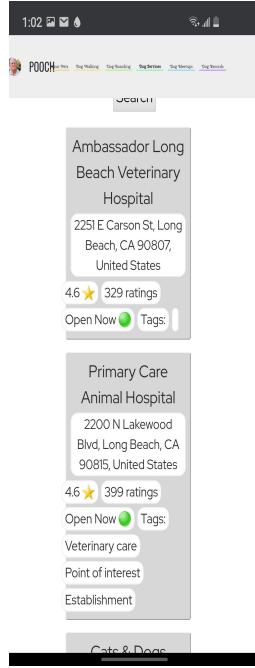
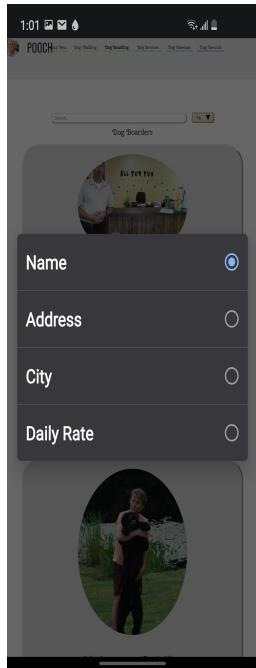
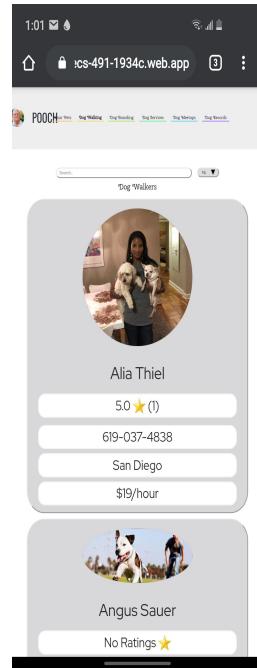
POOCH Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records

Dog Meetups

Corgi Dog Beach Day by 875 Belmont Shore San Diego, CA, 91942 29 May 2020 @ 12:00PM
Dog Beach Bumming by 5000 E Ocean Blvd Long Beach, CA, 90803 20 May 2020 @ 9:00AM
Dog Meetup by 182 Loma Ave San Diego, CA, 91942 30 May 2020 @ 12:00PM
Dog Training Together by 1800 Los Coyotes Long Beach, CA, 90802 29 May 2020 @ 10:00AM
Mcarthur Woods Hike by 56 Hudson Dr Chesterville, VA, 20124 20 May 2020 @ 8:00AM



Sprint #8 (Mobile)



Sprint #8

Before vs

After



Your Pets Page (Logged Out)

Before

POOCH

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

New to Pooch? Start here! ↗

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



Login Create Account

After

POOCH

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

New to Pooch? Start here! ↗



+ Login to add your dogs ↗

Login to manage all of your pets' profiles

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Dog Walking Page (Logged Out)

Before

POOCH

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

New to Pooch? Start here!

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

A right-pointing arrow is overlaid on the image.

Login Create Account

After

POOCH

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

New to Pooch? Start here!

Doug Walker 4.0 ★ (2)

Alia Thi No Ratings 555-111-2345 Long Beach \$25/hour

Fran Ferdinand

Hank Feeney

Log in to write a review for this user

Dog likes him

He is always available to walk my dogs when I'm at work

Julius Caesar 30-4856 Long Beach \$10/hour

Login Create Account



Dog Boarding Page (Logged Out)

Before

POOCH

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

New to Pooch? Start here ↗

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



Login Create Account

After

POOCH

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

New to Pooch? Start here ↗

Search... Name

Dog Boarders

Profile Picture	Name	Rating	Phone	Address	Price
	All Fur Fun Dog Day Care	No Ratings ★	562-926-3847	928 Furway Pl Long Beach	\$140/day
	Alphonso Schiller	No Ratings ★	619-208-4083	209 Cotton Circle San Diego	\$85/day
	Annalise Ryan	No Ratings ★	562-837-4720	748 Palo Verde Dr Long Beach	\$105/day
	Applewood Boarding Kennel	No Ratings ★	619-283-2937	392 Dover Dr San Diego	\$105/day
	Buckhorn Dogranch	No Ratings ★	619-174-8392	8493 Bone St Long Beach	\$150/day
	Canine Country Club Of The Lake	No Ratings ★	619-083-7048	9302 Lucky Ln San Diego	\$100/day



Dog Services Page (Logged Out)

Before

The screenshot shows the Pooch homepage. At the top, there's a navigation bar with links: Your Pets, Dog Walking, Dog Boarding, Dog Services (which is highlighted in green), Dog Meetups, and Dog Records. Below the navigation is a large banner featuring a happy dog running in a field. Text on the banner reads: "No worries! Pooch dog walkers are here! View Dog Walkers" followed by a small emoji of a person walking a dog. To the right of the banner are "Login" and "Create Account" buttons. A "New to Pooch? Start here!" button is also visible.

After

The screenshot shows the same Pooch homepage after a service has been added. The "Dog Services" link in the navigation bar is now blue, indicating it has been selected. The main content area has changed to display search results for dog-related businesses. The first result is "Ambassador Long Beach Veterinary Hospital" located at 2251 E Carson St, Long Beach, CA 90807, United States. It has a rating of 4.6 stars from 329 reviews, is marked as "Open Now", and has tags for "Veterinary". The second result is "Primary Care Animal Hospital" located at 2200 N Lakewood Blvd, Long Beach, CA 90815, United States. It has a rating of 4.6 stars from 399 reviews, is marked as "Open Now", and has tags for "Veterinary".



Dog Meetups Page (Logged Out)

Before

POOCH

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

New to Pooch? Start here!

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

From 05/12/2020 To mm/dd/yyyy Search... Title...

Dog Meetups

Dog Beach Bumming by Dog Beds R Us 5000 E Ocean Blvd Long Beach, CA, 90803 20 May 2020 @ 9:00AM

Dog Training Together by Happy Doggy Stays 1800 Los Coyotes Long Beach, CA, 90802 29 May 2020 @ 10:00AM

Mearthur Woods Hike by Happy Doggy Stays 56 Hudson Dr Chesterville, VA, 20124 20 May 2020 @ 8:00AM

Puppy Playdate by The Ritz Pup Hotel 7280 Carson St Lakewood, CA, 90720

Small Paws For A Big Cause by Sarah Jessica Barker 900 Loma Avw Long Beach, CA

After

POOCH

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

New to Pooch? Start here!

From 05/12/2020 To mm/dd/yyyy Search... Title...

This week This weekend Next two weeks This month

Dog Meetups

Dog Beach Bumming by Dog Beds R Us 5000 E Ocean Blvd Long Beach, CA, 90803 20 May 2020 @ 9:00AM

Dog Training Together by Happy Doggy Stays 1800 Los Coyotes Long Beach, CA, 90802 29 May 2020 @ 10:00AM

Mearthur Woods Hike by Happy Doggy Stays 56 Hudson Dr Chesterville, VA, 20124 20 May 2020 @ 8:00AM

Puppy Playdate by The Ritz Pup Hotel 7280 Carson St Lakewood, CA, 90720

Small Paws For A Big Cause by Sarah Jessica Barker 900 Loma Avw Long Beach, CA

Maybe (1) I'm Going (2)



Dog Records Page (Logged Out)

Before

POOCH

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

New to Pooch? Start here ↗

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



Login Create Account

After

POOCH

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

New to Pooch? Start here ↗

✓ Login to upload documents

Choose File No file chosen

Upload Dog Record

2020 POOCH, Inc. About FAQ Privacy Policy Social Media Terms of Service



Dog Services Page (Logged In)

Before

 **POOCH**

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

All Creatures Veterinary Services ★ 4.8 (247) 733 W Park Ave, Long Beach, NY 11561	Long Beach Animal Hospital ★ 4.7 (30) 806 W Beech St, Long Beach, NY 11561
Gelfand Lewis J DVM ★ 4.8 (8) 733 W Park Ave, Long Beach, NY 11561	Waldman Hal M DVM photos height 480 401 W Beech St, Long Beach, NY 11561
Cherry Hill Animal Hospital ★ 4.6 (10) 1425 Marlton Pike East, Cherry Hill, NJ 08034	Keystone Veterinary Emergency and Referral ★ 3.6 (42) 1200 West Chester Pike, Havertown, PA 19083

After

 **POOCH**

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

Here you can search for dog-related businesses ✓



Ambassador Long Beach Veterinary Hospital 2251 E Carson St, Long Beach, CA 90807, United States 4.6 ★ 329 ratings Open Now Tags: 	 
Primary Care Animal Hospital 2200 N Lakewood Blvd, Long Beach, CA 90815, United States 4.6 ★ 399 Open Now Tags: 	



Dog Meetups Page (Logged In)

Before

The screenshot shows the 'Dog Meetups' section of the Pooch app. At the top, there's a search bar with date filters ('From 03/24/2020', 'To mm/dd/yyyy') and time filters ('This week', 'This weekend', 'Next two weeks', 'This month'). Below the search bar is a title 'Dog Meetups +' with a plus sign. There are four cards displayed:

- Dog Party by Hawaii 4 Dogs**
760 Concordia Way
Garden Grove, CA, 92703
01 Apr 2020 @ 1:00AM
Buttons: 'Maybe' and 'I'm Going'
- Meetup by Hawaii 4 Dogs**
123 Perfect Street
Gainesville, TN, 37010
29 Mar 2020 @ 12:00PM
Buttons: 'Maybe' and 'I'm Going'
- Playdate by Mark Upton Boarding**
[Thumbnail]
- Snow Play Day by Hawaii 4 Dogs**
[Thumbnail]

After

The screenshot shows the same 'Dog Meetups' section after logging in. The interface is identical to the 'Before' version, but the user's status for each event has been updated. Red arrows point from the 'Before' screenshot to the 'After' screenshot, highlighting the changes:

- Dog Party by Hawaii 4 Dogs**: Status changed from 'Maybe' to 'I'm Going'.
- Meetup by Hawaii 4 Dogs**: Status changed from 'Maybe' to 'I'm Going'.
- Playdate by Mark Upton Boarding**: Status changed from 'Maybe' to 'I'm Going'.
- Snow Play Day by Hawaii 4 Dogs**: Status changed from 'Maybe' to 'I'm Going'.

A blue arrow points to the 'My meetups' button in the top navigation bar, which is now visible due to the login status. The card for the 'Meetup by Hawaii 4 Dogs' is circled in red, showing the updated status.

Sprint #8

Summary



Sprint #8 Goals

1. Finish user features
2. Fix all bugs for final release
3. Update all documents
4. Improve CNN model
5. Integrate the machine learning model into
the web application





Azure Devops Sprint Board

Before

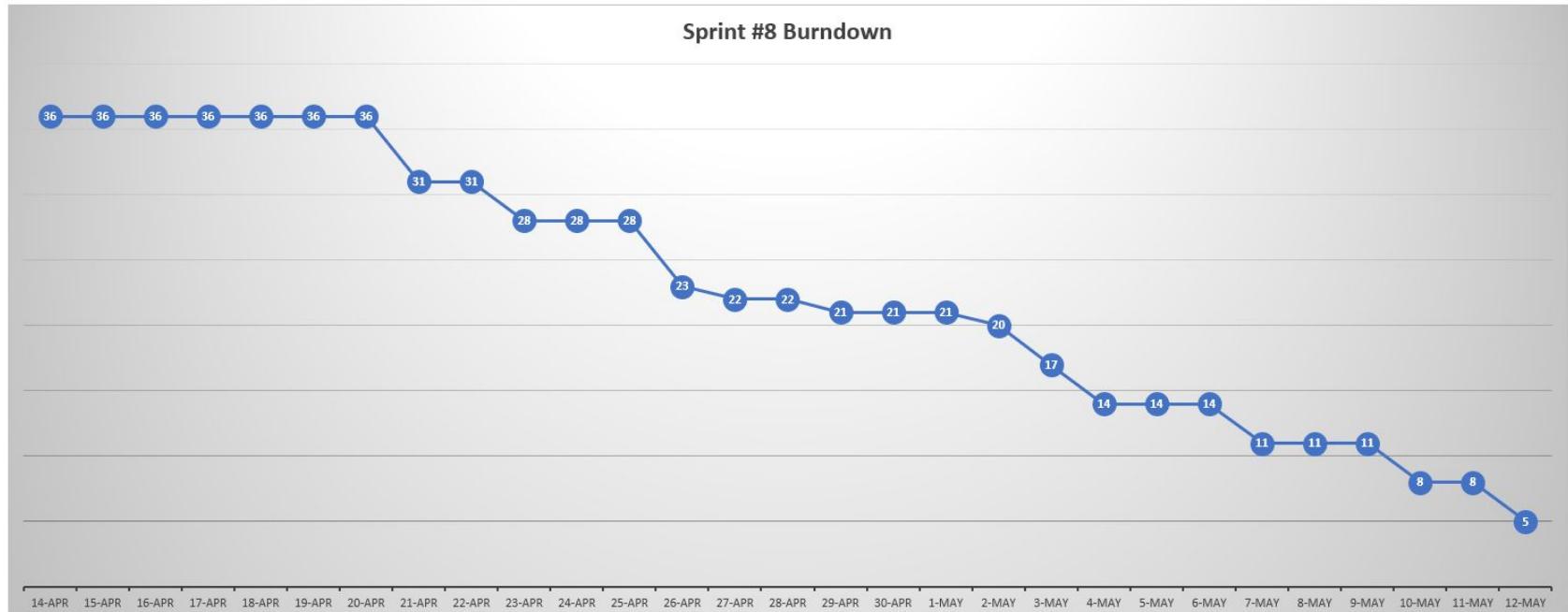
1	💡 Allow logged out users to view all pages	● Doing	5	1	💡 Allow logged out users to view all pages	● Done	5
2	💡 Add city selection to Services page	● Doing	3	2	💡 Add city selection to Services page	● Done	3
3	💡 Update Service page results to tag system	● Doing	5	3	💡 Update Service page results to tag system	● Done	5
4	💡 Change look of meetups in past	● Doing	1	4	💡 Change look of meetups in past	● Done	1
5	💡 Users can sort for their own meetups	● Doing	1	5	💡 Users can sort for their own meetups	● Done	1
6	💡 Show users count of maybe/going to meetup	● Doing	1	6	💡 Show users count of maybe/going to meetup	● Done	1
7	💡 Users can view who is attending meetups	● Doing	3	7	💡 Users can view who is attending meetups	● Done	3
8	💡 User can delete their meetups	● Doing	3	8	💡 User can delete their meetups	● Done	3
9	💡 Test all the user features	● Doing	3	9	💡 Test all the user features	● Done	3
10	💡 Improve the machine learning model	● Doing	3	10	💡 Improve the machine learning model	● Done	3
11	💡 Update all documents	● Doing	3	11	💡 Update all documents	● Done	3
12	💡 Research ways to integrate the ML model into our application	... ● Doing	5	12	💡 Research ways to integrate the ML model into our application	... ● Doing	5

After

1	💡 Allow logged out users to view all pages	● Done	5
2	💡 Add city selection to Services page	● Done	3
3	💡 Update Service page results to tag system	● Done	5
4	💡 Change look of meetups in past	● Done	1
5	💡 Users can sort for their own meetups	● Done	1
6	💡 Show users count of maybe/going to meetup	● Done	1
7	💡 Users can view who is attending meetups	● Done	3
8	💡 User can delete their meetups	● Done	3
9	💡 Test all the user features	● Done	3
10	💡 Improve the machine learning model	● Done	3
11	💡 Update all documents	● Done	3
12	💡 Research ways to integrate the ML model into our application	... ● Doing	5

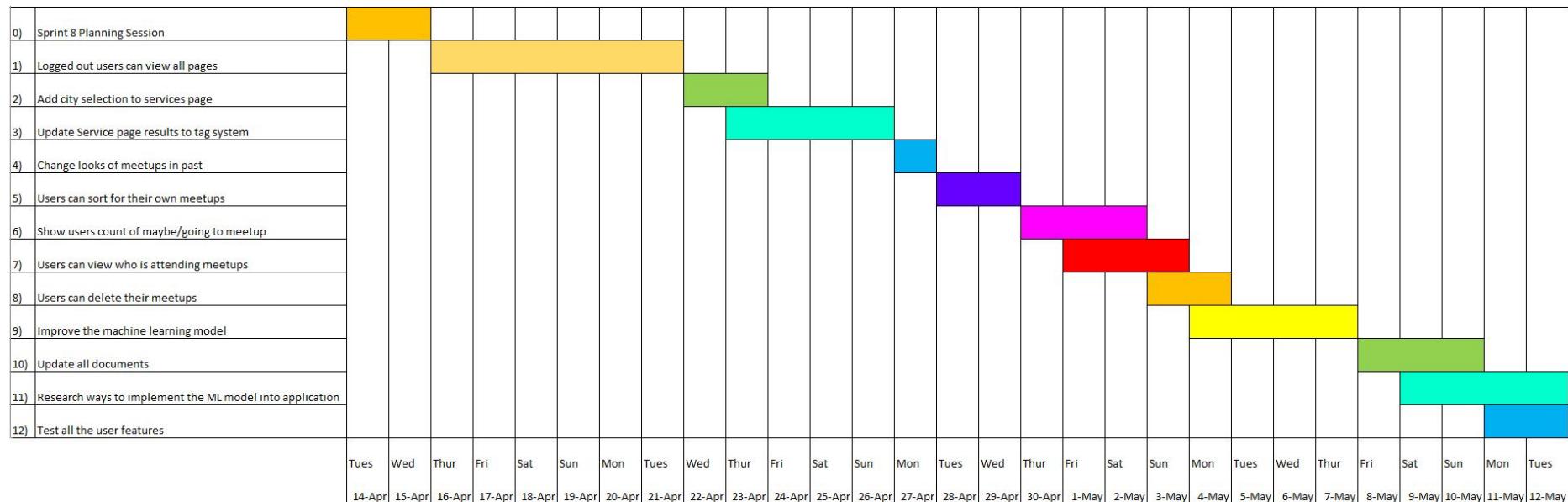


B U R N D O W N C H A R T





Gantt Chart





Sprint #8 Retrospective

Did we meet our sprint goal?

We did not meet our sprint goal.

Sprint Velocity (current)

- ★ 36 points were planned
- ★ 31 points were completed
- ★ Team members = 6
- ★ Commitment/person/week = 5 hours
- ★ Sprint duration = 3 weeks
- ★ Team commitment this sprint = 90 hours

What worked well in the sprint?

We were able to complete all but one of the tasks that we planned for this sprint. We maintained a good pace and a good level of communication within group.

What could be improved?

We spent our time working on features that were most requested by the users. Ultimately, we didn't spend enough time deploying the machine learning model.



Sprint #8 Retrospective (continued..)

How did we decide user stories with the highest priorities?

The decided based on what features were requested by users and needed bug fixing.

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

We have 1 in-progress user story.

How did the burndown chart look?

The burndown chart looked mostly linear as we regularly completed user stories. Towards the end, we focused on updating documents and testing.



Sprint Retrospective Conclusions

- Researching and working with the machine learning model consumed a lot of time.
- Deploying a server for our ML model was hard and we did not have enough time to integrate the model into the web application.

Code Section



Has the code been reviewed?

Yes, a code review was held on May 11 to determine the quality of the current code release.

Has the code been tested?

Yes, the code was tested on May 1 to verify that features were working as intended.



How many clicks to each feature?

All features require four clicks or less.

The average number to any feature is 2.4 clicks.

1. View Home **(1)**
2. Create Account **(2)**
3. Login **(2)**
4. Recover Password **(3)**
5. Setup Profile **(2-3)**
6. View Profile **(1)**
7. Edit Profile **(2)**
8. Reset Profile **(3)**
9. Setup Pet Profile **(3)**
10. View Pet **(2)**
11. Edit Pet Profile **(3)**
12. Delete Pet Profile **(3)**
13. Search Dog Walker **(2)**
14. Sort Dog Walkers **(2)**
15. View Dog Walkers **(2)**
16. Review Dog Walkers **(4)**
17. Search Dog Boarders **(2)**
18. Sort Dog Boarders **(2)**
19. View Dog Boarders **(2)**
20. Review Dog Boarders **(4)**
21. Search for Dog Services **(2)**
22. Search Meetups **(2)**
23. Sort Meetups **(2-3)**
24. View Meetups **(1)**
25. Mark Going to Meetups **(2)**
26. Create Meetups **(3)**
27. Delete Meetups **(3)**
28. Upload Documents **(3)**
29. View Document **(2)**
30. Delete Documents **(3)**
31. 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

<https://drive.google.com/file/d/1kPu6o85wVkJhjqbSKET1SGuapEg8j8M/view?usp=sharing>



Welcome to Pooch!

User Manual

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

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



1. View Home

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

OR

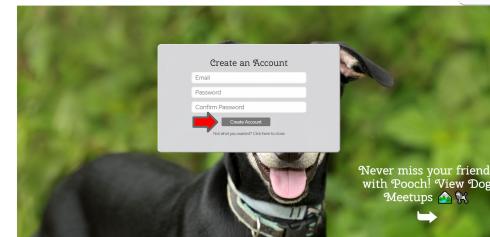
- ★ Click “POOCH” on the left of the navbar

The screenshot shows the Pooch website's homepage. At the top, there is a navigation bar with the following items: "Your Pets", "Dog Walking", "Dog Boarding", "Dog Services", "Dog Meetups", and "Dog Records". On the far right of the nav bar are "Login" and "Create Account" buttons. Below the nav bar, there is a large, blurry background image of a dog running in a grassy field. Overlaid on this image is a text box containing the message: "No worries! Pooch dog walkers are here! View Dog Walkers" followed by two small dog and person icons. A white arrow points from the text box towards the right side of the image. In the top right corner of the main content area, there is a small button labeled "New to Pooch? Start here ↑".



2. Create Account

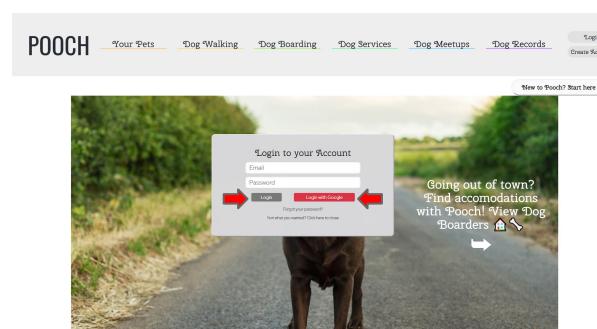
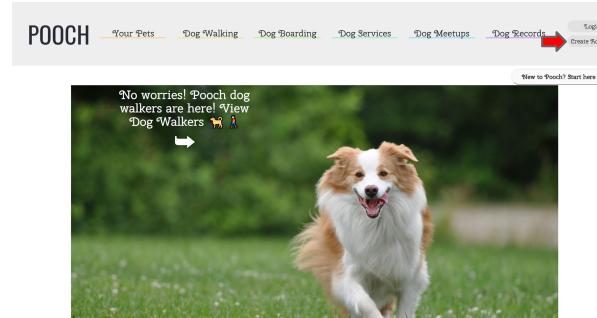
- ★ Click “Create Account” on the right of the navbar
- ★ Enter your email, password, and enter the password again to confirm
- ★ Click “Create Account” on the popup in the center of the screen





3. Login

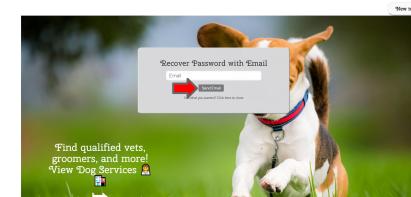
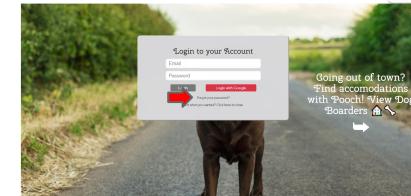
- ★ Click “Login” on the right of the navbar
- ★ Enter your email and password
- ★ Click “Login” on the popup in the center of the screen
OR
- ★ Click “Login with Google” and follow the on screen prompt





4. Recover Password

- ★ Click “Login” on the right of the navbar
- ★ Click “Forgot your password” in the small text at the bottom of the popup
- ★ Enter the email of your account
- ★ Click “Send Email”





5. 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”

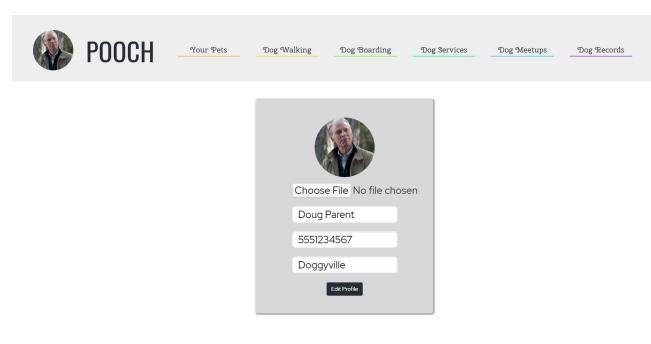
The screenshots illustrate the user flow for creating a profile:

- Step 1:** The user is prompted to choose their role: "Dog Parent" or "Dog Service Provider". A red arrow points to the "Dog Parent" button.
- Step 2:** The user selects a profile picture and enters basic information: "I am a..." dropdown set to "Dog Parent", "I would like to offer...", and "Choose File No file chosen". A red arrow points to the "Choose File" button.
- Step 3:** The user continues to enter details: "I would like to offer..." dropdown set to "Dog Walking" and "Choose File No file chosen". A red arrow points to the "Choose File" button.
- Step 4:** The user enters more specific information: "I would like to offer..." dropdown set to "Dog Walking", "Choose File No file chosen", and "Choose File No file chosen". A red arrow points to the "Choose File" button.
- Step 5:** The user enters detailed information: "Choose File No file chosen", "Dog Walker", "555224567", "123 Pooch Ave", "Doggystyle", and "601". A red arrow points to the "Choose File" button.
- Step 6:** The user has completed the profile setup, indicated by a green checkmark icon.
- Step 7:** The user's profile is now listed under "Dog Walkers".



6. View Profile

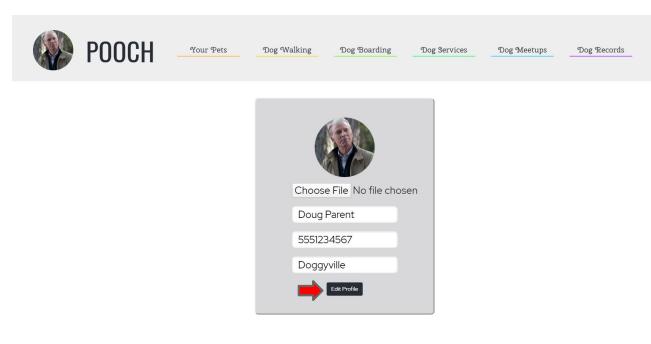
- ★ Hover over the profile picture in the top left
- ★ Click on the picture
- OR
- ★ Click on “Profile” in the dropdown menu that appears





7. Edit Profile

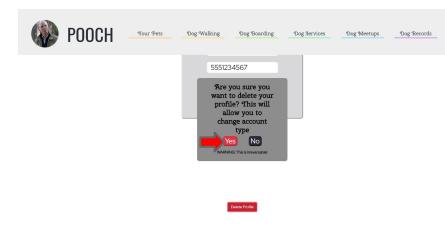
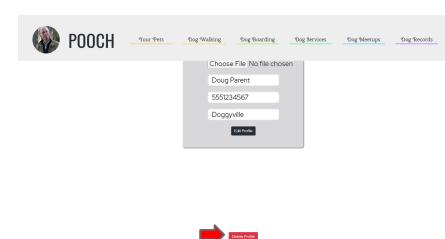
- ★ Hover over the profile picture in the top left
- ★ Click on the picture
- OR
- ★ Click on “Profile” in the dropdown menu that appears





8. Reset Profile

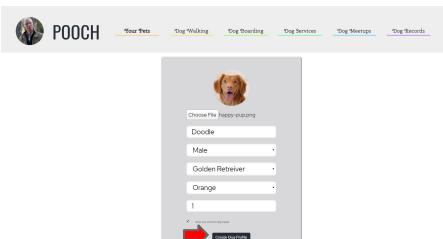
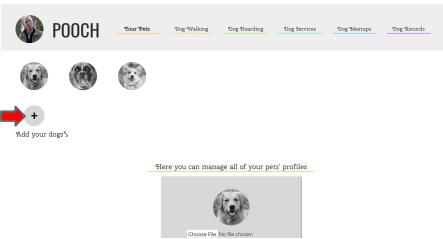
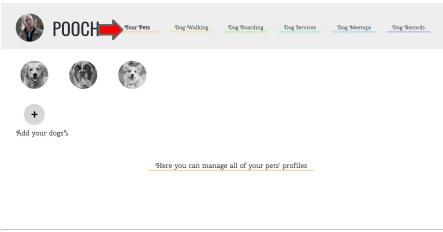
- ★ Click on “Delete Profile” at the bottom of the screen
- ★ Click on “Yes” in the center of the screen





9. 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





10. 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



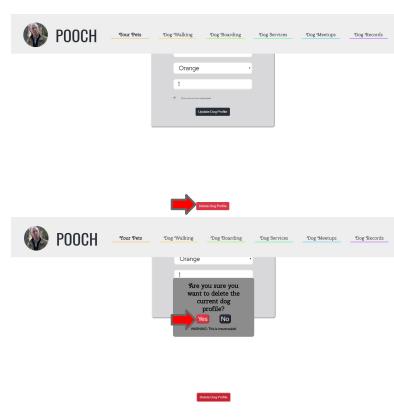
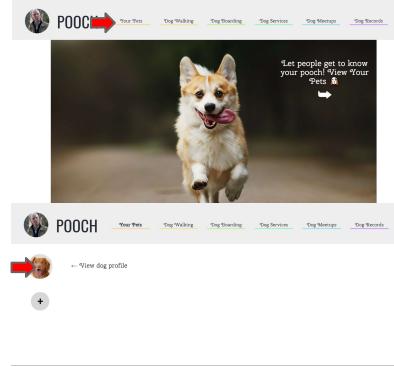
11. Edit Pet Profiles

- ★ 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



12. Delete Pet Profiles

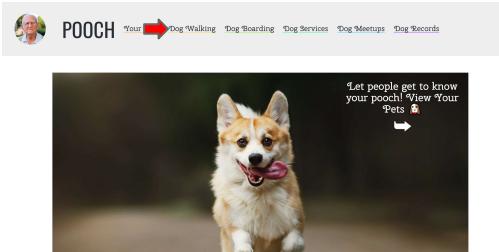
- ★ Click on circle with your dog's picture
- ★ Click on “Delete Dog Profile” at the bottom
- ★ Click on “Yes” at the center of the screen





13. 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)



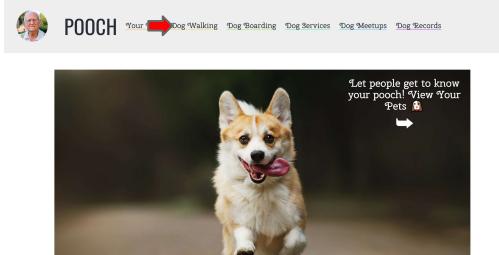
Name	Rating	Phone Number	Price
Alla Thiel	No Ratings	650-237-4838	\$19/hour
Angie Sauer	No Ratings	609-830-4850	\$23/hour
Bark Twain	No Ratings	562-847-2918	\$23/hour
Doc Moggings	No Ratings	562-237-8473	\$23/hour
Doug Walker	4.0 (2)	555-123-2456	\$25/hour
Doodie Caesar	No Ratings	562-930-4856	\$23/hour
Fran Furdland			
Hank Feeney			
Sammy			
Tommy			
Willy			

Name	Rating	Phone Number	Price
Doc Moggings	No Ratings	562-237-8473	\$23/hour
Doug Walker	4.0 (2)	555-123-2456	\$25/hour
Doodie Caesar	No Ratings	562-930-4856	\$23/hour



14. 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



Name	Rating	Phone	City	Hourly Rate
Allie Thiel	No Ratings	659-037-4838	San Diego	\$19/hour
Angie Sauer	No Ratings	619-330-4650	San Diego	\$23/hour
Bark Twain	No Ratings	562-647-2918	Long Beach	\$23/hour
Dog Meets	No Ratings	562-237-8473	Long Beach	\$23/hour
Dog Walker	4.5 (2)	555-037-0348	Long Beach	\$25/hour
Dogulus Caesar	No Ratings	562-037-5998	Long Beach	\$25/hour
Fran Ferdinand				
Luther Hutchinson	27 (3)	520-77-77202	Huntington Beach	\$25/hour
Jeremy Gong	10 (1)	555-444-7788	Long Beach	\$19/hour
Shawn Goss	No Ratings	562-437-8973	Long Beach	\$19/hour
Alie Thiel	No Ratings	659-037-4838	San Diego	\$19/hour
Elijah Clifford	No Ratings	562-476-5467	Long Beach	\$20/hour

Hourly Rate	
George Walker	\$19/hour
Luther Hutchinson	\$25/hour
Jeremy Gong	\$19/hour
Shawn Goss	\$19/hour
Alie Thiel	\$19/hour
Elijah Clifford	\$20/hour
Fran Ferdinand	
Allie Thiel	
Luther Hutchinson	
George Walker	
Elijah Clifford	
Shawn Goss	
Jeremy Gong	



15. 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:

- Step 1: Home Screen**
The top navigation bar includes links for "Your Pets", "Dog Walking" (highlighted with a red arrow), "Dog Boarding", "Dog Services", "Dog Meetups", and "Dog Records". Below the bar is a large image of a dog sitting outdoors with the text "Let people get to know your pooch! View Your Pets".
- Step 2: Dog Walkers List**
The "Dog Walking" page shows a search bar and 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/hourA red arrow points to Doug Walker's profile.
- Step 3: Dog Walker Detail Page**
A modal window for Doug Walker is open, displaying his profile picture, name, phone number, location, and rate. It also shows his average rating (4.0 stars from 2 reviews) and a review input field. Below the modal, a summary of his services is shown: 4.0 stars, Doug, 555-111-2345, Long Beach, \$25/hour. To the right of the modal, a tooltip says "Dog likes him" and "He is always available to walk my dogs when I'm at work".



16. 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:

- Screenshot 1:** Shows the main dashboard for a user named "POOCH". The "Dog Walking" tab is highlighted in orange. A banner at the top right says "Let people get to know your pooch! View Your Pets".
- Screenshot 2:** Shows the "Dog Walkers" section. It lists four profiles with star ratings:
 - Doug Walker: 4.0 ★ (2) - Long Beach, \$25/hour
 - George Walker: 3.5 ★ (2) - Fargo, \$12/hour
 - Jeremy Garts: 1.0 ★ (1) - Long Beach, \$10/hour
 - Jordan West: 3.0 ★ (2) - Los Angeles, \$32/hourA red arrow points to the empty star field for Doug Walker.
- Screenshot 3:** Shows the review submission screen for Doug Walker. The star rating is 4.0 ★ (2). A modal window contains three review snippets:
 - "A genuinely kind-hearted person who has helped my dog maintain a healthy weight!"
 - "Dog likes him"
 - "He is always available to walk my dogs when I'm at work"Red arrows point to the star rating and the "Submit Review" button.



17. 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 results are listed, each with a small profile picture, rating (e.g., 3.0 ★ (1)), name, address, phone number, and price per day.
- Screenshot 3:** The search results page after entering the letter "D". Only one result, "Happy Doggy Stay", is displayed, showing a 5.0 ★ (1) rating, address, phone number, and price per day.



18. 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

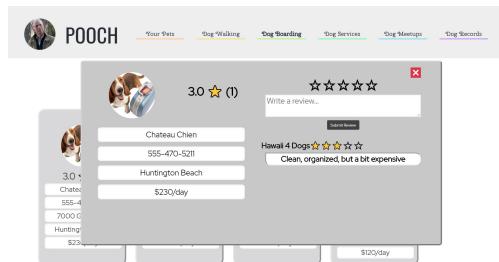
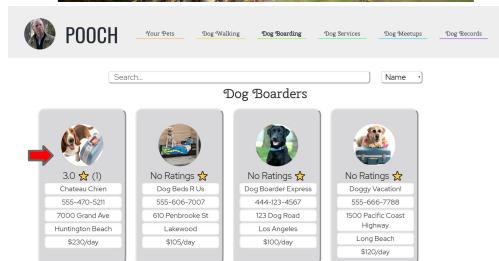
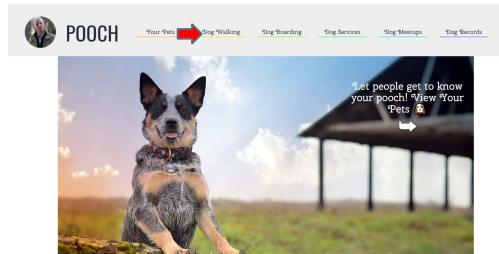
The screenshots show the Pooch website interface for sorting dog boarders:

- 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. Red arrows point to the dropdown menu and the "Name" option. 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 criteria. A dropdown menu above the cards shows "Daily Rat." selected. Red arrows point to the dropdown menu and the "Daily Rat." option. The cards 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



19. View Dog Boarders

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





20. 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 homepage features a banner with a dog and the text "Let people get to know your pooch! View Your Pets". The "Dog Boarding" menu item 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 boarder's profile card now displays a 5-star rating and a positive review: "Excellent customer service. They were available on short notice and have a". A red arrow points to the review text.



21. Search for Dog Services

- ★ Click on “Dog Services” on the navbar
- ★ Enter the type of dog service in the “Service Name” box in the middle of the screen
- ★ Enter the city, street, or zip code of the area you want to search
- ★ Click on the “Search” button
- ★ Results will be shown below

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

Let people get to know your pooch! View Your Pets

Here you can search for dog related businesses ↴

Service Name: e.g. Vet, Animal Shelter, Dog Grooming, etc...
City: e.g. 200 Sprint St, Los Angeles, 90012, etc...
Search

2020 Pooch, Inc. About FAQ Privacy Policy Social Media Terms of Service

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

Here you can search for dog related businesses ↴

Service Name: dog grooming
City: long beach
Search

Soggy Dog Pet Grooming
2001 7th St, Long Beach, CA 90804, United States
47 105 ratings Currently Closed Tags
Point of Interest Store Establishment

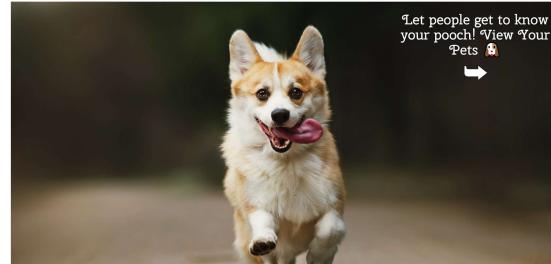
Pupazzo Dog Grooming Xpress & Pet Supplies
2000 Pacific Coast Hwy, Long Beach, CA 90804, United States
47 44 Currently Closed Tags



22. 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)

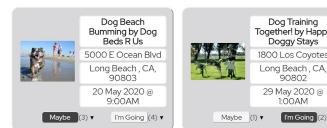
Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records



From 05/12/2020 To mm/dd/yyyy Title

This week This weekend Next two weeks This month My meetups

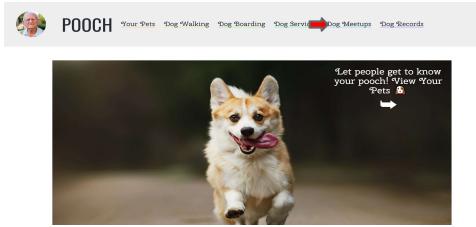
Dog Meetups





23. 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
OR
- ★ Click on “This Week”, “This Weekend”, “Next Two Weeks”, “This Month”, or “My Meetups” to see meetups

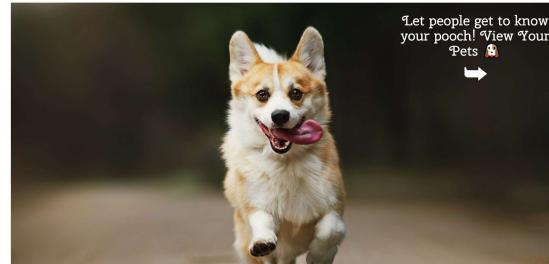




24. View Meetups

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

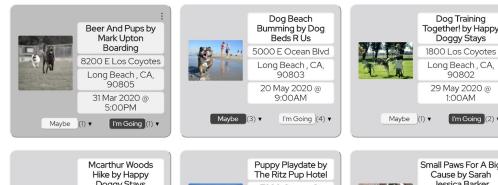
Your Pets Dog Walking Dog Boarding Dog Services Dog Meetups Dog Records



From 02/01/2020 To mm/dd/yyyy Search... Title -

This week This weekend Next two weeks This month My meetups

Dog Meetups +

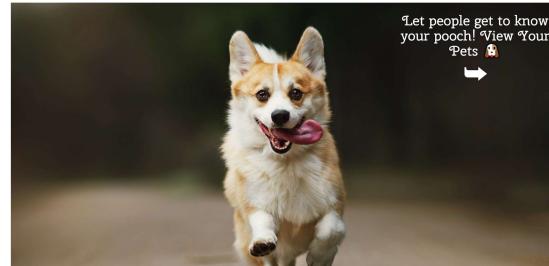




25. Mark Going to Meetups

- ★ Click on “Dog Meetups” on the navbar
- ★ Click on “I’m Going” to a meetup
OR
- ★ Click on “Maybe” to a meetup

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



From 02/01/2020 To mm/dd/yyyy Search... Title -

This week This weekend Next two weeks This month My meetups

Dog Meetups +

Beer And Pups by Mark Upton Boarding
8200 E Los Coyotes
Long Beach, CA, 90805
31 Mar 2020 @ 5:00PM

Dog Beach Bummin by Dog Beds R Us
5000 E Ocean Blvd
Long Beach, CA, 90803
20 May 2020 @ 9:00AM

Dog Training Together by Happy Doggy Days
1800 Los Coyotes
Long Beach, CA, 90802
29 May 2020 @ 10:00AM

McArthur Woods Hike by Happy Doggy Days

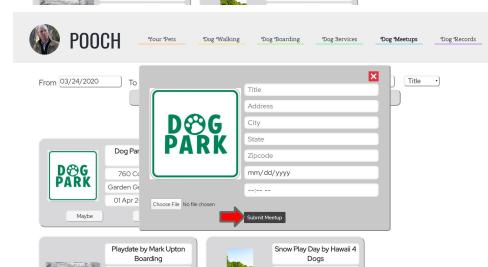
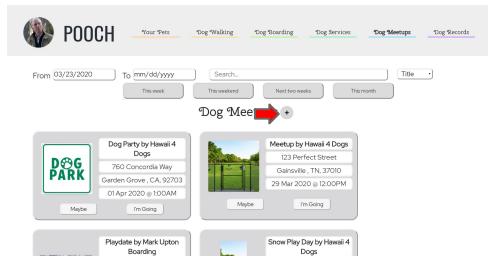
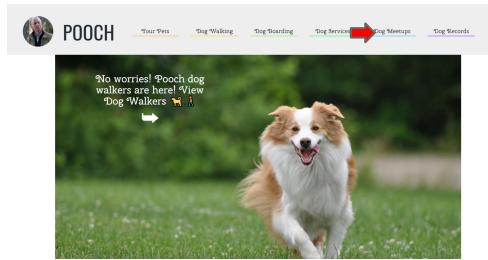
Puppy Playdate by The Ritz Pup Hotel

Small Paws For A Big Cause by Sarah Jessica Barker



26. Create New Meetup

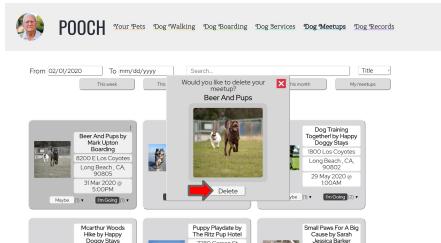
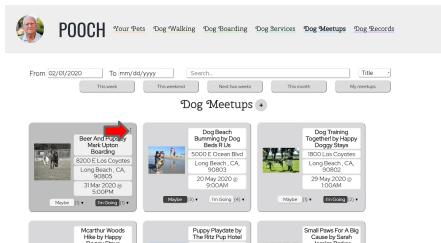
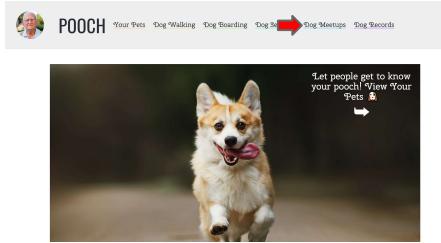
- ★ Click on “Dog Meetups” on the navbar
- ★ Click on the plus button
- ★ Fill out the form with your planned time and location
- ★ Click “Submit Meetup” at the bottom of the form





27. Delete Meetup

- ★ Click on “Dog Meetups” on the navbar
- ★ Click on the three dots above a meetup you hosted
- ★ Click on “Delete” in the center of the screen





28. 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

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

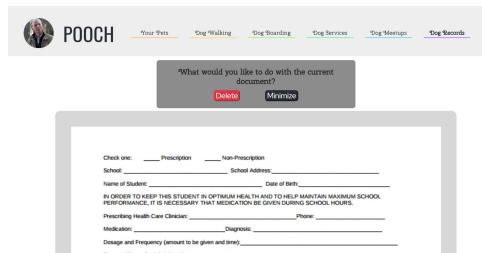
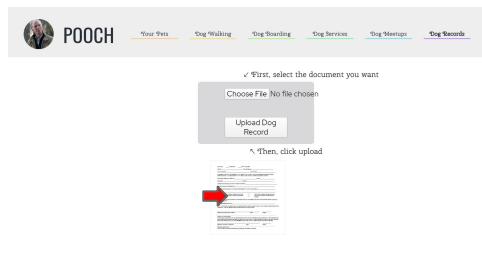
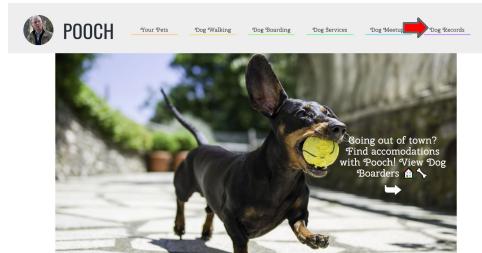
Upload Dog Record

Then, click upload



29. View Documents

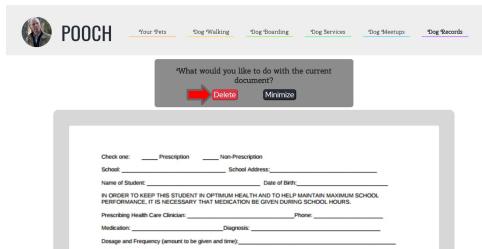
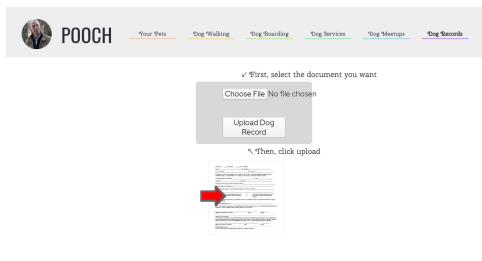
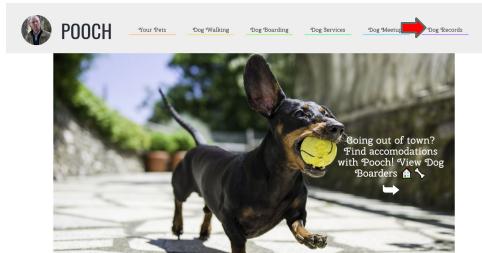
- ★ Click on “Dog Records” on the navbar
- ★ Scroll down the page until you see small previews of your records
- ★ Click on a document to view fullscreen





30. 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”





31. 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. The top navigation bar has several tabs: "Your Pets", "Dog Walking", "Dog Boarding", "Dog Services", "Dog Meetups", and "Dog Records". In the center of the page, 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 the input field, there is a note: "✗ Then, click upload". At the bottom of the page, there are three small preview images of different document forms.



While the demo is playing, feel free to ask questions

[Sprint 8 Demo](#)

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



End of Sprint 8 Presentation

POOCH