

Happy Dog. Happy Life.



PawPacer

A wellness app to help dogs and owners balance physical, mental & social health

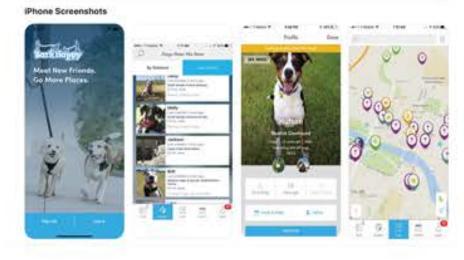
Research | Fall 2021

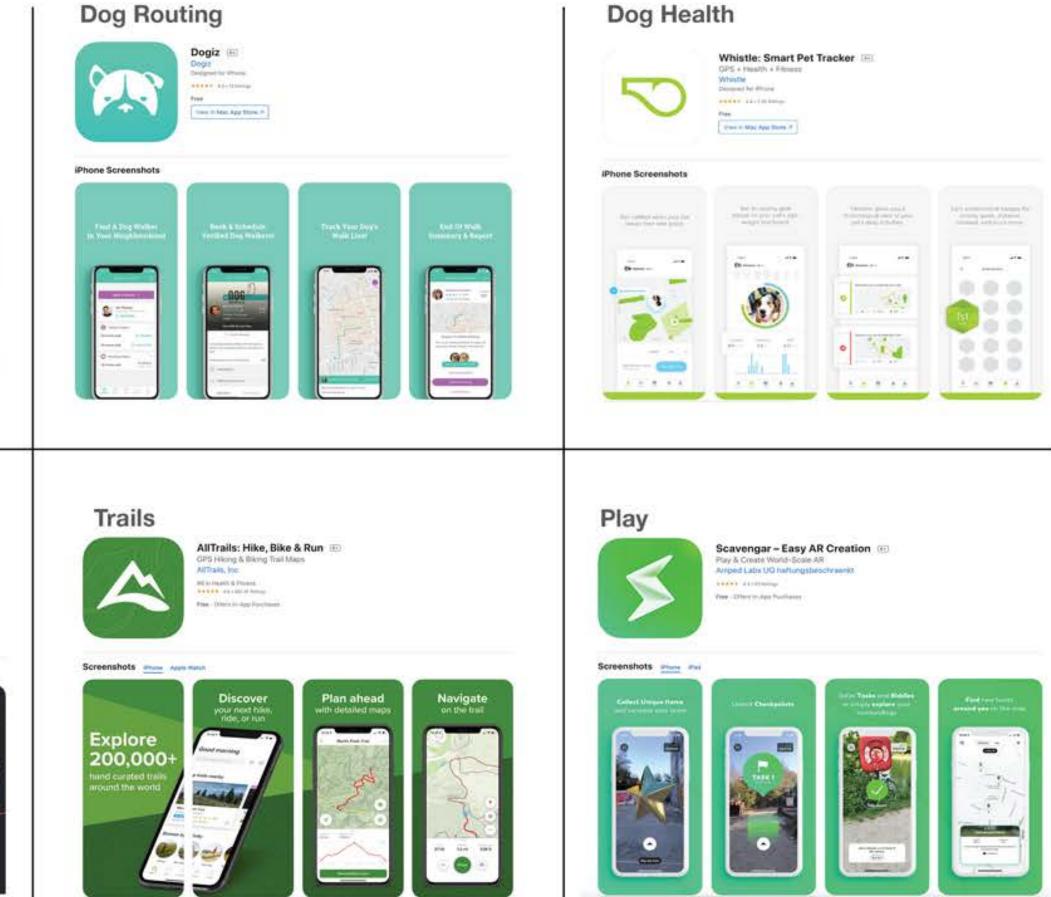


Social Dog Destinations



BarkHappy THE BankHappy Inc. Designed for Divine arere in-plane Free Churt.In-App Nurthenet Van 11 Mar App Bree 2



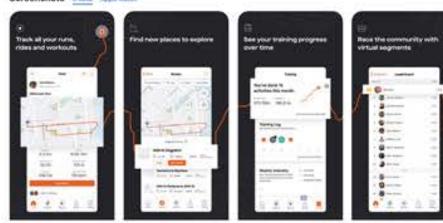


Fitness

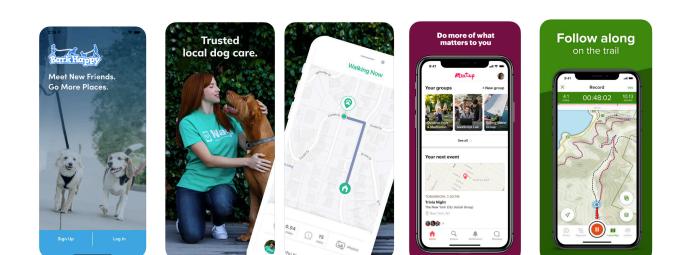


Strava: Run, Ride, Swim 🕕 Track activity & map routes. Strava, Inc. ACCORPORATE & Disasson Fine - Utility on App Philipping

Screenshots - Apple Match



THE COMPETITION



To create features that would be in-line with what users were expecting and wanted to use, research was conducted online to determine what competition existed in the area of dog walking aps, meeting aps, social aps, exploring aps and rating aps. This allowed the case study to develop the tasks and flows that would be needed in order to finalize the ap features, build the wire frames to visualize the screen layouts and produce a journey map to help construct the key walking feature and test navigation in a click-able prototype.

CURRENT SIMILAR APS: <u>Woof Trax</u> <u>Bark Happy</u> <u>Paw Parks</u> <u>Wag</u> **APS WITH SIMILAR PROCESSES:**

Meet Up Facebook All Trails Yelp Pedometer Step Tracker

KEY TAKE-AWAYS

- Keep screens simple, buttons large
- Limit number of screens to accomplish tasks & utilize similar journeys
- Make it fun & easy for daily use
- Use existing aps for mapping, reviews and calendar use

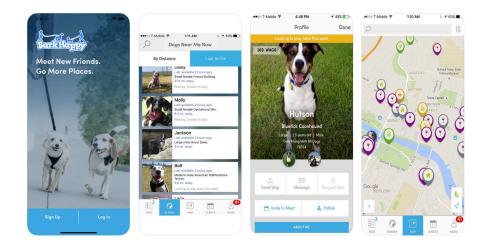
• Utilize existing patterns of behavior for filling out forms, creating profiles & fitness tracking

TOP COMPETITORS

Bark Happy:

Pros: Dog and owner profiles, interactive map shows dogs in the area and dog friendly destinations, has a lost & found board, has a notification alert for dogs in the area, has a dog pack group and allows messaging and inviting of dog friends, has a calendar feature to create walking events and to view upcoming events of dog walking in the area.

Cons: Pictures of the area are hit or miss, cannot filter by type of dog to insure small dogs don't mix w/ large dogs if its frightening to them, cant track distance, cant track time or rate routes.

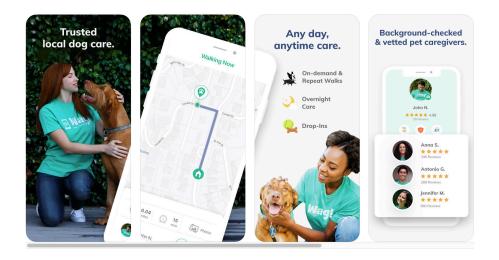


Bark Happy: https://apps.apple.com/us/app/barkhappy/id737271907

Wag:

Pros: Convenience of scheduling a 20,30 or 60 min walk, free drop box key to put out to get the dog, pictures of confirmation of walking, Used by pro walkers to track dog walks & report to clients. Pinpoints exactly where the dog has gone pee/poo and it tracks mileage and how many feet you've walked. Can take photos to show client you were at the house and walked the dog.

Cons: Poor customer support for Dog Walkers, WAG walkers are not vetted or trained well-causing safety concerns and ap is expensive.



Wag: <u>https://app.wagwalking.com/</u>

SIMILAR COMPETITORS

Meet Up:

Pros: Has multiple groups you can join to meet up, provides event calendar for meetups, has profiles of the members and requires applying and joining into specific groups

Cons: Limited to just the meetup, not a lot of info regarding the information about the meetup except for what is posted by the group administrator



Meet Up: <u>https://apps.apple.com/us/app/meetup/id375990038</u>

All Trails:

Pros: Can record your hike, walk or run, can interact with map, can follow along the trail, has images of trails to view

Cons: Load times are long, cant view very well on the iWatch, does not provide hazard warnings that will prepare riders for obstacles and avoid injury



All Trails: https://apps.apple.com/us/app/alltrails-hike-bike-run/ id405075943 To create features that would be inline with what users were expecting and wanted to use, research was conducted online to determine what competition existed in the area of dog walking aps, meeting aps, social aps, exploring aps and rating aps. This allowed the case study to develop the tasks and flows that would be needed in order to finalize the ap features, build the wireframes to visualize the screen layouts and produce a journey map to help construct the key walking feature and test navigation in a click-able protoype.

RESEARCH

CURRENT SIMILAR APS:

Bark Happy: https://apps.apple.com/us/app/barkhappy/id737271907 Woof Trax: https://apps.apple.com/us/app/wooftrax-walk-for-a-dog/id643857704 Paw Parks: https://apps.apple.com/us/app/paw-parks/id937974538 Play Pal Dog Park Buddy: https://apps.apple.com/us/app/playpal-dog-park-buddy/id1266153067 Finding Rover: https://apps.apple.com/us/app/finding-rover/id669691504 Sniff Spot: https://apps.apple.com/us/app/sniffspot/id1437699295 Tractive Dog Walker: https://apps.apple.com/us/app/tractive-dog-walk/id979568080 Wag: https://app.wagwalking.com/

ADDITIONAL APS WITH SIMILAR PROCESSES:

Weather Underground: https://apps.apple.com/us/app/weather-underground/id486154808 Pedometer Step Tracker: https://apps.apple.com/us/app/pacer-pedometer-step-tracker/id600446812 Meet Up: https://apps.apple.com/us/app/meetup/id375990038 Find My Friends: https://apps.apple.com/us/app/find-my-friends/id466122094 Match: https://apps.apple.com/us/app/match-1-dating-app/id305939712 Facebook: https://apps.apple.com/us/app/facebook/id284882215 Neighborhood: https://apps.apple.com/us/app/nextdoor-local-neighborhood/id640360962 All Trails: https://apps.apple.com/us/app/alltrails-hike-bike-run/id405075943 Yelp: https://apps.apple.com/us/app/yelp-food-services-around-me/id284910350 Open Table: https://apps.apple.com/us/app/opentable/id296581815



PHYSICAL | MENTAL | SOCIAL

- Over 35% of dogs in the U.S. suffer from obesity due to overfeeding and lack of exercise
- After 4 hours alone at home dogs suffer from depression, loneliness and frustration
- Without regular socialization, dogs exibit destructive, behavioural issues





PHYSICAL | MENTAL | SOCIAL

- The new office/classroom is not so awesome for physical wellness
- Work, play and study routines now overlap creating a mental toll
- Online overload and isolation affects needed socialization





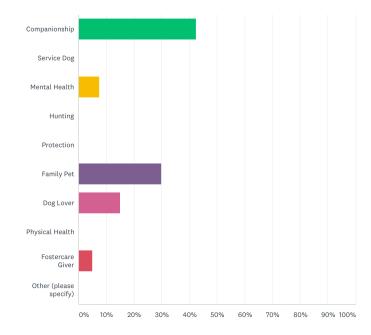
90% Owners **feel guilty** when they do not walk their dog

$\xrightarrow{\text{YET}} 35\% \text{Owners do not walk} \\ \xrightarrow{\text{their dogs}} 35\% \text{Own$



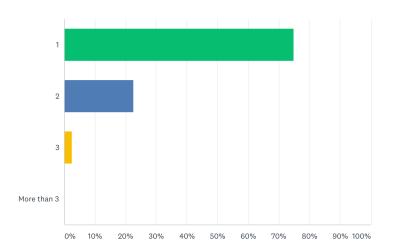
SURVEY TEST QUESTIONS ANSWERED

Q 1 Results Why did you get a dog?



AN	SWER CHOICES
•	Companionship
•	Service Dog
•	Mental Health
•	Hunting
•	Protection
•	Family Pet
•	Dog Lover
•	Physical Health
•	Fostercare Giver
•	Other (please specify)
то	TAL

Q 2 Results How many dogs do you own?



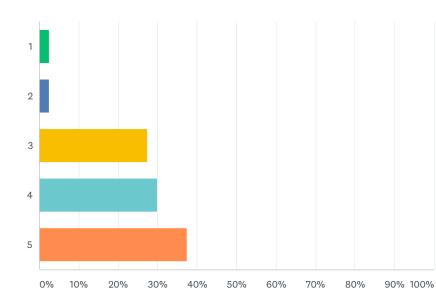
AN	SWER CHOICES
•	1
•	2
•	3
•	More than 3
то	TAL

*	RESPONSES	•
	42.50%	17
	0.00%	0
	7.50%	3
	0.00%	0
	0.00%	0
	30.00%	12
	15.00%	6
	0.00%	0
	5.00%	2
Responses	0.00%	0
		40

•	RESPONSES	•
	75.00%	30
	22.50%	9
	2.50%	1
	0.00%	0
		40

Q 3 Results

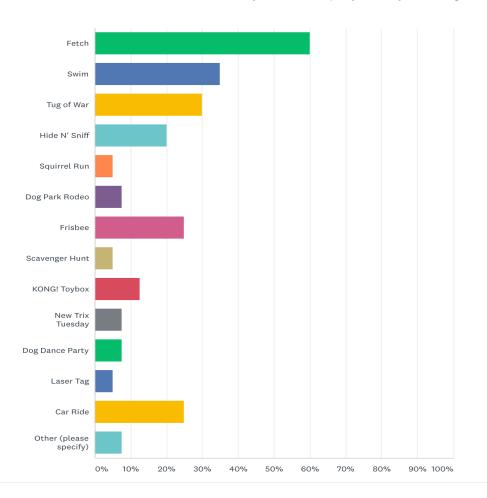
On a scale of 1-5, 5 being the best, how happy does walking your dog make you?



AN	SWER CHOICES
•	1
•	2
•	3
•	4
•	5
Tot	al Respondents: 40

Q 4 Results

What activities would you like to play with your dog?



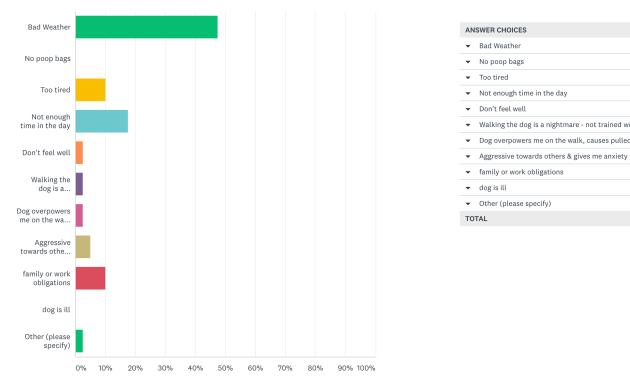
AN	SWER CHOICES
•	Fetch
•	Swim
•	Tug of War
•	Hide N' Sniff
•	Squirrel Run
•	Dog Park Rodeo
•	Frisbee
•	Scavenger Hunt
•	KONG! Toybox
•	New Trix Tuesday
•	Dog Dance Party
•	Laser Tag
•	Car Ride
•	Other (please specify)
Tot	al Respondents: 40

•	RESPONSES	•
	2.50%	1
	2.50%	1
	27.50%	11
	30.00%	12
	37.50%	15

•	RESPONSES	•
	60.00%	24
	35.00%	14
	30.00%	12
	20.00%	8
	5.00%	2
	7.50%	3
	25.00%	10
	5.00%	2
	12.50%	5
	7.50%	3
	7.50%	3
	5.00%	2
	25.00%	10
Responses	7.50%	3

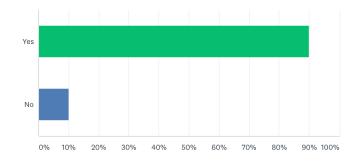
Q 5 Results

What prevents you from walking your dog each day for the right amount of time needed to be physically & mentally fit?



Q 6 Results

Do you feel guilty when you don't walk your dog?



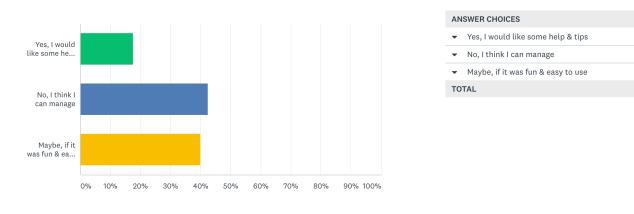
AN	SWER CHOICES
•	Yes
•	No
то	TAL

	•	RESPONSES	•
		47.50%	19
		0.00%	0
		10.00%	4
		17.50%	7
		2.50%	1
vell		2.50%	1
ed muscles		2.50%	1
/		5.00%	2
		10.00%	4
		0.00%	0
	Responses	2.50%	1
			40

•	RESPONSES	
	90.00%	36
	10.00%	4
		40

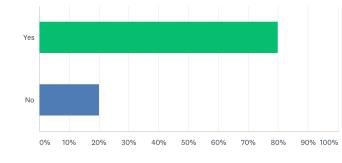
Q 7 Results

Would you like alerts & tips to walk, play and socialize your dog in order to achieve their best physical & mental health?



Q 8 Results

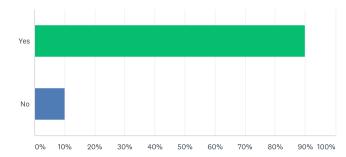
Would you like to know what your dog is saying to you?



ANSWER CHOICES	
✓ Yes	
▼ No	
TOTAL	

Q 9 Results

Do you worry about if your dog is happy?



ANSWER CHOICES		
•	Yes	
•	No	
TOTAL		

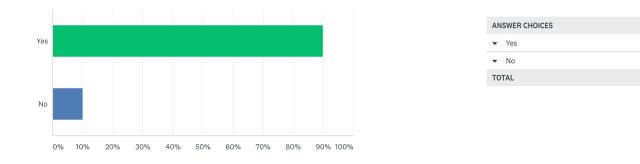
-	RESPONSES	•
	17.50%	7
	42.50%	17
	40.00%	16
		40

•	RESPONSES	•
	80.00%	32
	20.00%	8
		40

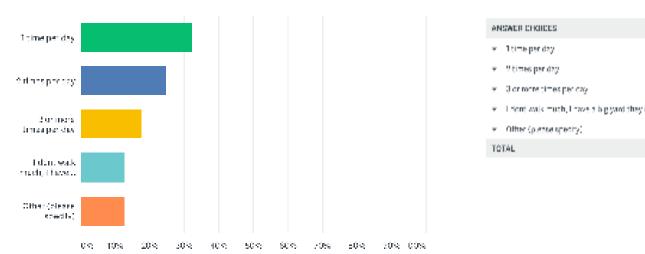
•	RESPONSES	•
	90.00%	36
	10.00%	4
		40

Q 9 Results

Do you worry about if your dog is happy?



Q 10 Results How often do you walk your dog?



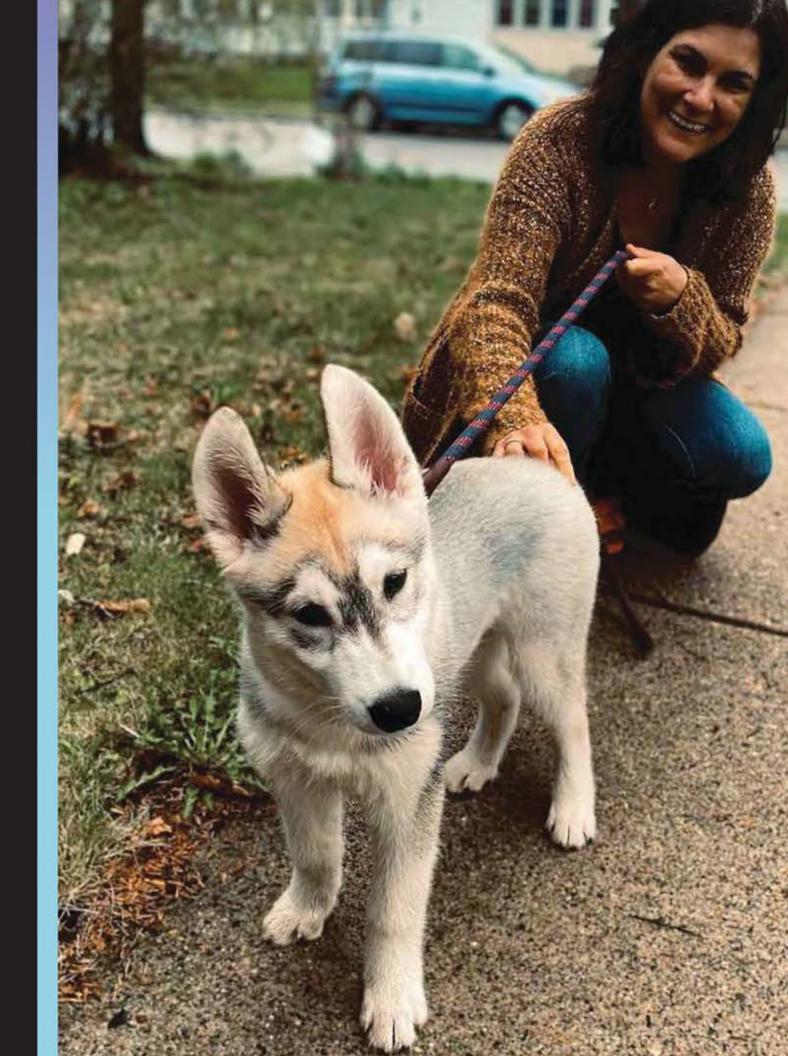
•	RESPONSES	•
	90.00%	36
	10.00%	4
		40

	-	RESPONSES	*
		32.50%	12
		23.00%	$^{\circ}\mathrm{C}$
		12 50%	5
run around in		12,50%	
	Responses	12,50%	
			40



Dogs learn alot in the first 6 months about how to relate to other dogs, their owners, family members and others they meet later on. Without social activity, the mental state of the dog is severely compromised. Excercise has a direct connection on a dog's mental health status.

- Dr. Liz Hartnett, Long Lake Veternary Clinic



External Connections

SUBJECT MATTER **EXPERTS**

Dr. Liz Hartnett, vet specialist in dog health & nutrition

Dr. Hartnett owns and operates the Long Lake Veterinary Clinic in Long Lake, Minnesota. She received her Doctorate of Medicine (DVM) from Saint Matthew's University on Grand Cayman Island. She completed her clinical year of veterinary school at the University of Minnesota Special interests in Chinese medicine, acupuncture, alternative medicine and nutrition. Dog expert & owner interpretor.

longlakeveterinaryclinic.com/about-us

Calee Cecconi, educator & artist

Full-time art and design practice and graphic design educator at Minnesota State -Mankato and MCAD. Designer, multimedia artist, educator and art and passionate about design for good and social justice. Wicked problem instigator.

chimesdesign.com

Matthew Luken, educator & director of UX design

UXDesign Director, Vice President - Digital Accessibility for U.S. Bank, educator and mentor at MCAD & U of MN- Twin Cities respectively. A fervent User Experience and Service designer, digital strategist and critical thinker working for the inclusion of all users. Master problem solver of many wicked things.

matthewluken.com

OUTSIDE **AUDIENCES**

Second Hand Hounds: Jeanne Minnick

Over 10 years of experience with dog rescue and fostering dogs of all sizes, breeds and health. Provides the unique viewpoint of the value of good physical & mental health for dogs. Opportunity to gain insight on needs for dogs coming into and going out of rescue to new homes. How to guide for helping dogs at all entry levels gain a good balance of physical and mental fitness.

https://www.secondhandhounds.org/

National Dog Day: www.nationaldogday.com

National Dog Day celebrates all dogs, mixed breed and pure. Our mission is to help galvanize the public to recognize the number of dogs that need to be rescued each year and acknowledges family dogs and dogs that work selflessly each day to save lives, keep us safe and bring comfort. Opportunity to create a campaign around this date to highlight the "Be a Dog Walker" video 2.0

https://www.nationaldogday.com/

Subject Matter Expert Interview 1

Veternarian, Dr. Liz Hartnett, Long Lake Veternary Clinic Phone Interview

Q1. What can diet, excercise & socialization do for a dog's longevity?

Diet is definately a big topic and what you feed your dog can affect their weight, mood, mobility and how long they live. Also really important is their socialization. They learn alot in the first 6 months about how to relate to other dogs, their owners, family members and others they meet later on. Without social activity, the mental state of the dog is severely compromised. Excercise is in direct connection also with how their mental health status is doing. They go hand in hand. You cannot have one without the other.

Q2. How do you tell if dogs are mental fit & happy?

There are physical signs that let owners know their dog is ok like a loose jaw & muzzle, soft eyes, relaxed body and of course a wagging tail. And when you're dog is not happy you can see just the opposite. They will have a tense, stiff stance. Excessive panting can show stress or anxiety. Mouth is clenched, ears pulled back and a stiff tail can show agression. Curled down with dropping eyes can convey sadness or feeling bad. Dogs can also express unhappiness with destructive behavior in their house by soiling indoors, aggressive behavior towards other dogs and people or destroying any item.

Q3. What do you see as current trends to help owners engage better with their dog's well being?

Doggie daycares are becoming huge and I'm seeing they are now booked up fast. As we entered the pandamic, many new dog adoptions. As owners are transistioning back to work, dogs are having to cope w/ their new routines. There is limited social interactions w/ their owners, more time on their own. Many have never experienced this. I would definately check w/ a doggie dayca re about what they are seeing daily regarding dog happiness.

Q4. Do you think playtime could use gaming to engage dogs & owners to excercise and play regularly?

Yes, dogs natural instincts are to please their owners and they work hard to do just that. Engaging their other senses like smell to find scents and play are great ways to keep them engaged with mental and physical excercise. They also naturally want to be working and doing. An activity that engages that natural instict is good for the overall well being for dogs and owners.

Subject Matter Expert Interview 2

Educator & Artist, Calee Cecconi Design Concept Review Email Interview

Q1. How do I make the app fun to motivate dog owners to use it?

Try to utilize the data. Focus on how much owners spend on their dogs and what they spend it on. A fantastic idea is to offer free digital gear since I'm a poor grad student. "People love free avatar gear for their apps..." how bout a free doggie avatars or doggie attire to personalize their profile, similar to how owners dress their actual dogs up. Use the map feature for collecting certain things on the map which gave folks points towards gear they could get for their dogs or maybe a collection of points owners earned could buy virtual things like their avatars. People like that stuff.

Destinations on the map could also be set up as places that got folks involved with volunteering and other events. Another way to get solve wicked problems.

Research: My research found a cool app that translates your dog's barks. I want to utilize this and have recorded several different barks that I will use as the alert noise when it's time to walk, play or socialize. The owner can set up the bark to be their dog upon start or add on later. This could be a unique feature that helps the app stand apart from others.

Take aways: Add gamification, subscriptions or competition. Doggie avatar gear could be a great addition for interaction and motivation to keep going for some owners. Use a survey to find out more. Use dog volunteering or dog fundraising events to tie in with the app.

Q2. What about how dark all the screens are for a would be fitness & mental health app? Should I change it and start again? I feel like it should be more fluid and zen like.

"Black for mental health is bad"-actually, I will counter that with it being good. Bright screens are really bad for our mental health, and I think that's why Apple's introduced Dark Mode. I use Headspace with the app on dark mode and it's still fun and cute and great for mental health. What if you designed a dark mode and a light mode and allowed folks to choose?

Research:

Apple Developer: Dark Mode Guidelines

Take aways: Add gamification, subscriptions or competition. Doggie avatar gear could be a great addition for interaction and motivation to keep going for some owners. Use a survey to find out more. Dark mode is good for mental health, explore a light mode and dark mode. One can be for future iterations and explorations.

Q3. Am I really solving any problems here? Is this capstone viable?

Honestly, I think that getting people out for exercise and getting people interacting together solves some of the issues that the pandemic raised.

Many people who have dogs are not naturally social. I never saw owning a dog as a social thing (my dog was a jerk to other dogs and people), but I think your app gives this impression and it would encourage those who are not social or who are otherwise isolated to be more social. I could see owners who have anxiety using this app to do some fun gaming or volunteering and meeting people while they are at it.

Take aways: Physical, mental & social health balance is a wicked problem that needs solving. Worldwide issues of mental health, social isolation and death due to health issues before, during and after a pandemic.

UX Design Collective: Dark is Mentally Good

Subject Matter Expert Interview 3

" I'm a dog fosterer because I love dogs, but also love volunteering and volunteering while being with something you love makes it even more enjoyable.

- Jeanne Minnick, Foster care dog mom

Foster Dog Rescuer, Second Hand Hounds, Jeanne Minnick **Caregiver Insights** Email & phone Interviews

Q1. What physical signs show you a dog is happy?

Wagging tail, licking, playing, relaxed, wanting to be near or on you.

Q2. How do you tell when dogs are unhappy? Tense, shrinking away, hiding , low tucked tail

Q3. How do you determine how much exercise a dog gets when you first get them in?

When I first get a foster the rescue vet checks them out t intake and assesses physical health which includes weight. If overweight, I make sure they go on longer walks more often and take into consideration their size, age and breed to determine how much exercise they need.

Q4. Would it be helpful to have an app that keeps track of each foster dog's information to stay organized?

An app would be helpful as I find myself looking online or trying to find the paperwork from the rescue or vet.

Q5. Would you use an app to alert, find timed walking routes & track physical & mental fitness of your foster dogs?

I might but I think I would use it more to track the foster dog's information as suggested in number 4.

Q6. Do you think new owners would appreciate a checklist of their new dog's mental & physical status?

I think new owners would appreciate something like this. Especially first time dog owners who might not know how much exercise their dog needs.

Q7. When and how often do you play with your dogs?

I usually play with my dogs mostly after work because we are all excited to see each other. I walk my 2 small dogs in the AM and larger foster dog who needs more exercise in the PM.

Q8. How do you socialize your dogs?

dog park.

I usually foster one at a time since I own multiple dogs myself but I have had crossover between one coming and one leaving on occasion.

Q10. Why are you a foster care provider?

I'm a dog fosterer because I love dogs, but also love volunteering and volunteering while being with something you love makes it even more enjoyable. I also like helping a dog find its forever home and making sure they go to the best fit home possible for them based on their needs.

It's easy for me to socialize my dogs because there are always dogs coming and going at my house. I also socialize them on walks, playdates and the

Q9. How many dogs do you foster usually at one time?