Cora Process Book







Satchel Product Lead



Taylor Research Lead



Sullivan Visual Lead

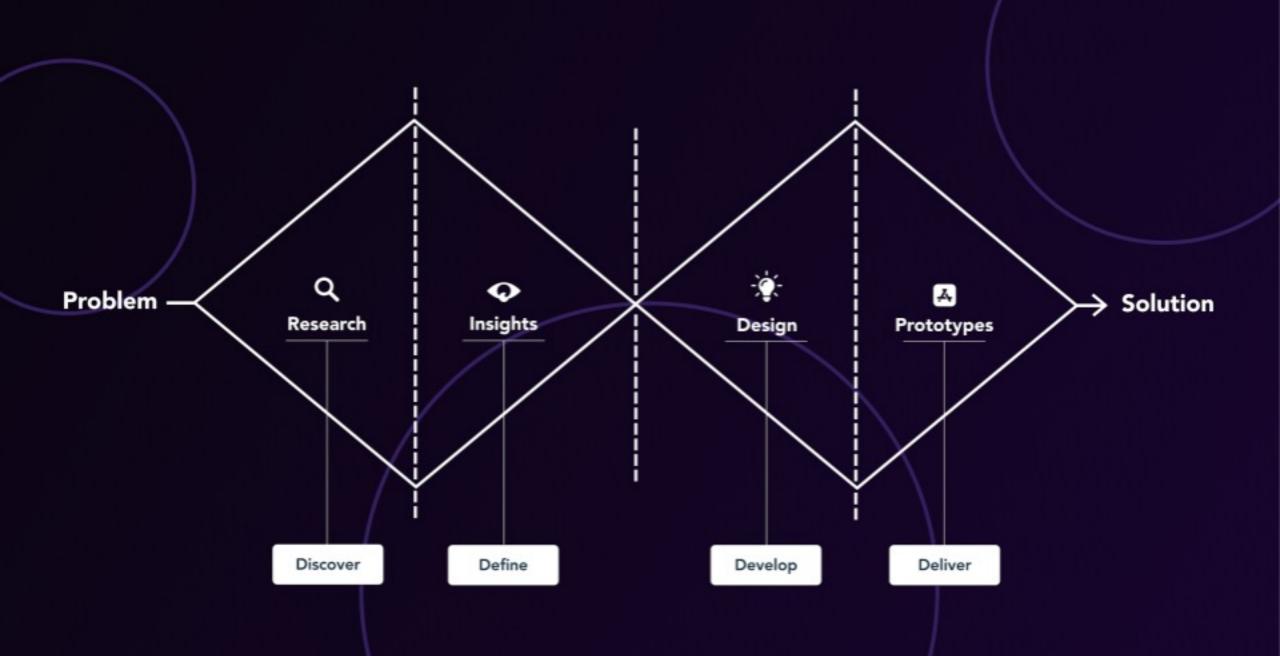


Sara Interaction Lead

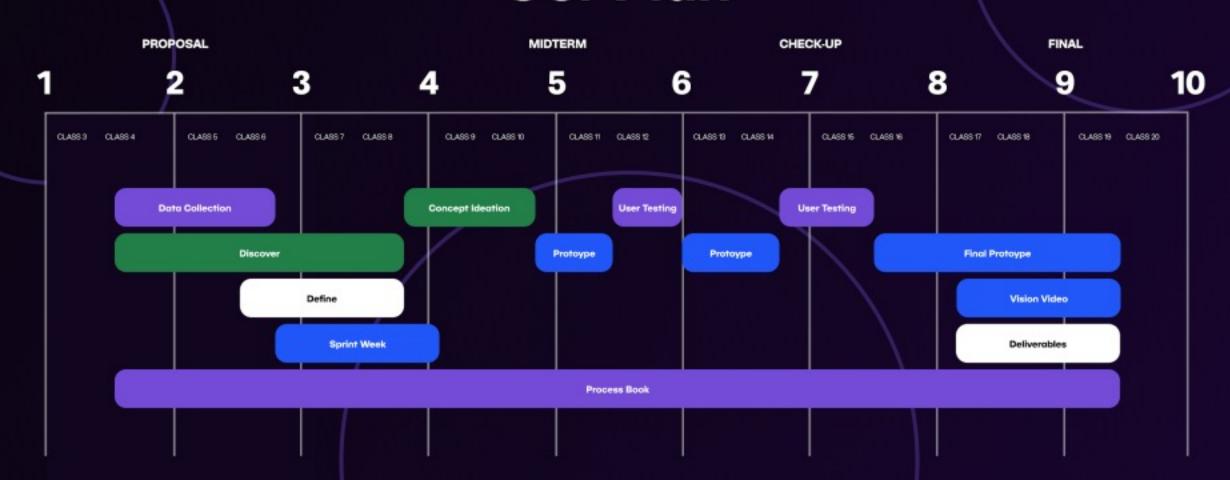
Perceptual & Cognitive Human Factors

Topic

The relationship between the mental and physical health of an athlete when they are injured.



Our Plan



Human Needs

Pleasure-Stimulation

Money-Luxury

Security

Self-Esteem

Popularity-Influence

Autonomy

Competence

Relatedness

Self-Actualization

Physical Thriving



What is our specific need?

Perceptual & Cognitive Human Factors

Our Factors



Physical Thriving

Competence

Problem Space

Injured athletes get resources for their physical health, but their mental health is not usually considered. Getting injured takes a big toll on an athlete's mental health and can even delay their physical recovery.

Primary Research

Survey: 100+ Responses

Interviews: 7 Athletes

Group Interview: 4 Athletes

Expert Interviews: 2 PT's

100+
Responses

7 Interviews

4 Expert Interviews

Group Interview

How Topic Relates To Need

Physical thriving: Associated with only a positive affective tone. Staying active is a natural antidepressant.

Competence: Successful in completing difficult tasks, mastering challenges, and being capable. With an injury, this hinders the athletes capability of playing their sport for an unknown amount of time.

Security: Life is structured and predictable, I have routines and habits and are safe from threats and uncertainties. Injuries are unpredictable. There is no timeline for returning to play.

Secondary Research

Athletes may be afraid to reveal their symptoms

- They can see seeking counseling as a sign of weakness.
- Already accustomed to working through the pain.
- Athletes are pressured to "play through it".

Secondary Research

Physicians make the mistake of focusing purely on physical outcomes.

- Its essential athletes psychological state is acknowledged.
- Physicians should consult a psychologist even when the athlete denies emotional problems.
- Emotional reactions may affect an athletes return to play, including a lack of confidence and fear.

Secondary Research

Athletes response to injury can trigger or unmask serious mental health issues.

- Including sadness, isolation, irritation, lack of motivation, anger, frustration, changes in appetite, sleep disturbance and disengagement.
- Injured athletes may restrict their caloric intake because they feel they "don't deserve to eat".
- Mental pain caused by injury or loss of your sport can be far more devastating than the physical injury.

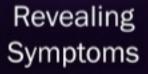
Target User

Age: 18-30 Years Old

Average ages of college-level and professional athletes.









Psychological State



Coping Mechanisms

Spark

Spark looked into the problem of people with musculoskeletal injuries not utilizing available physical therapy. Users are able to correctly perform daily exercises using a fun, engaging and accessible AI machine that has motivating visuals.





Gatorade Sweat Patch

GX Sweat Patch is worn by an athlete during a workout showing a range of results, helping athletes understand sweat loss rate and sodium concentration. These results provide personalized hydration and electrolyte recommendations for performance and recovery.



AthleteJuvo

AthleteJuvo aims at connecting the injured athlete to the society. Keep them involved and around other people. It is a mobile application to gamify, visualize and socialize the rehabilitation process.



Carol Turner
Gymnastic
University of Michigan

. 5

Member Since Dec 2017 Injury Part Ankle

NCRB

Favorite Gym

Mutual Connection



Sara Martir Volleyba II



Sam Bakkattba



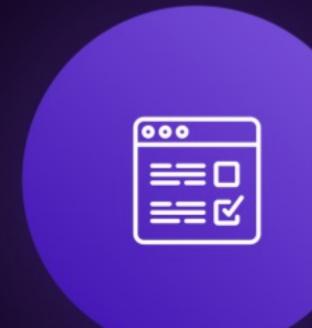
Dennis Stantaly



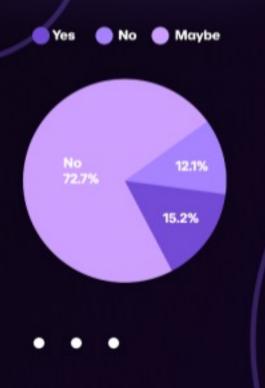
Frances Howard Hotkey

Connect with Carol

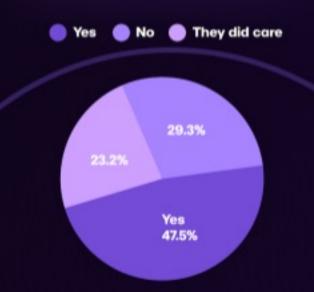
Survey Results



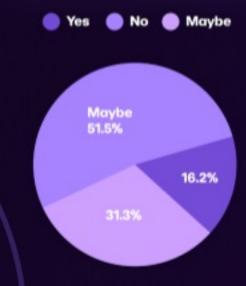
Most physical trainers (72.7%), don't acknowlege athletes mental health.



Almost half (47.5%), said they wish their trainer would have cared more about mental health.



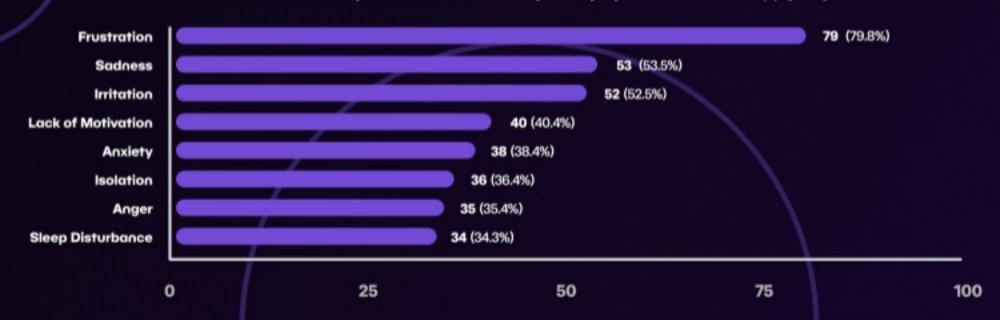
Half said they were unsure if connecting them with a psychologist would have helped.



Perceptual & Cognitive Human Factors

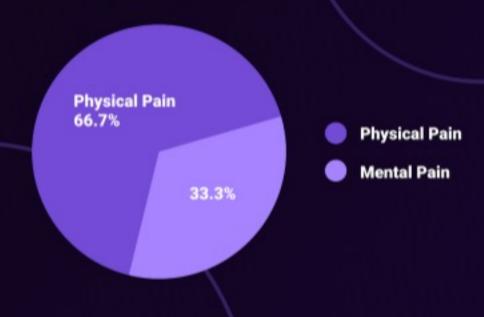
Frustration, sadness, and irritation were the most common emotions felt after injury.

Which emotions have you felt as a result of your injury. Check all that apply to you.



Physical pain took a greater toll than mental pain during an athletes recovery.

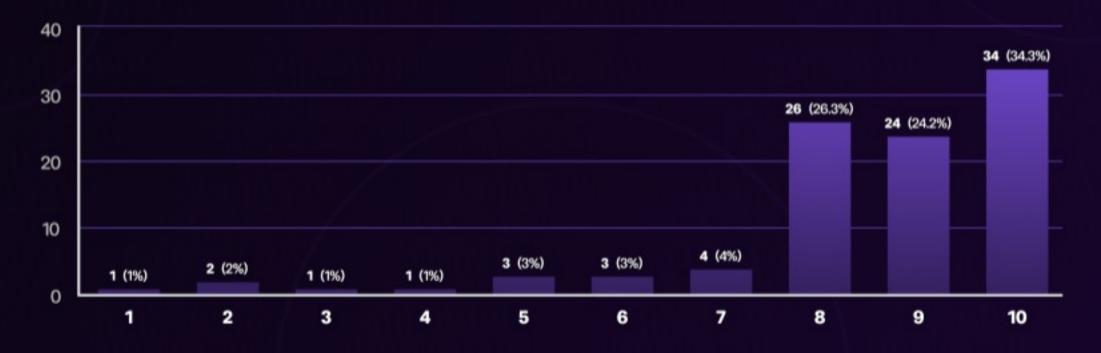
During your recovery period what took a greater toll on you, your physical or mental pain?

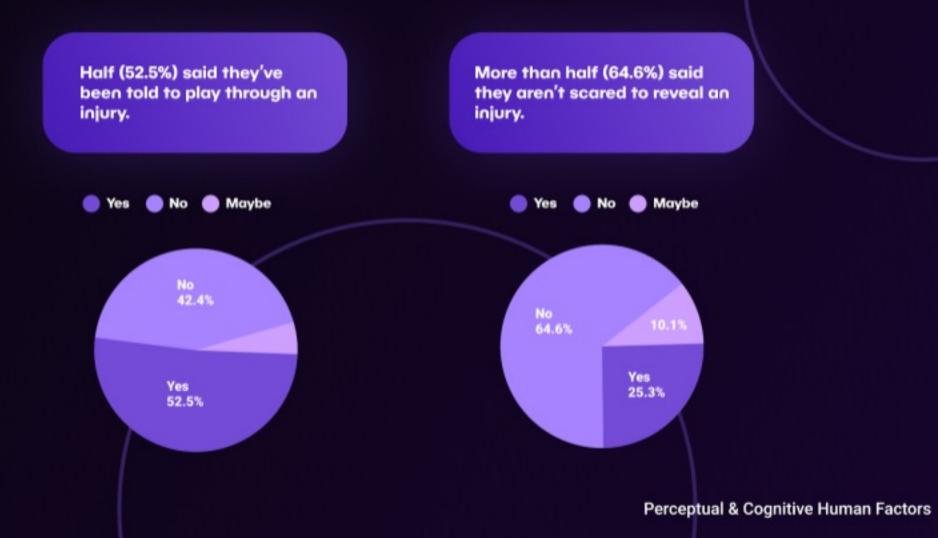


Perceptual & Cognitive Human Factors

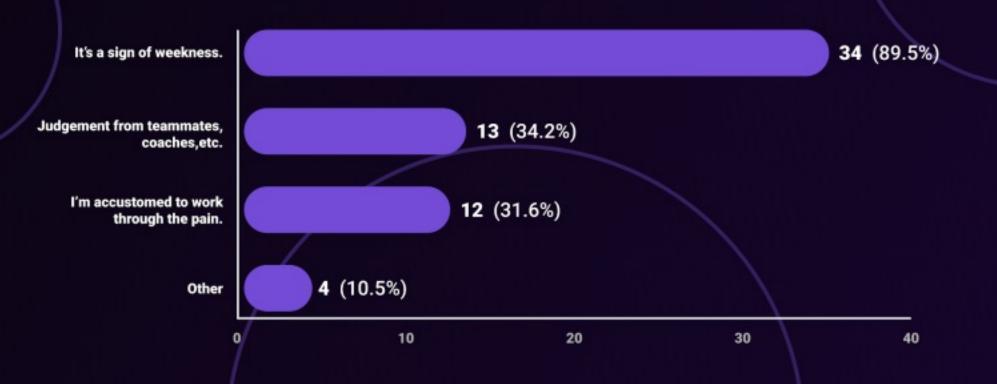
Athletes prioritize physical health over mental health in recovery.

According to this scale what did you prioritize more in your recovery: mental health (0) or physical health (10)



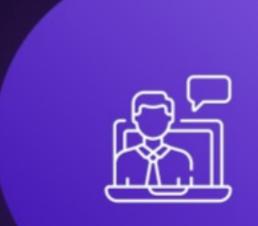


Athletes were scared to reveal an injury, because they saw it as weak.



Perceptual & Cognitive Human Factors

Interview Results



Interview Results

- Athletes can be scared to reveal their injury, or cope with avoidance and isolation
- Athletes often play through the injury
- You can't recover physically without mental recovery
- Some PT's (Physical Therapist) have talked about mental health, but never offered it

Interview Results

- It would have been healthy to talk about mental health
- Some athletes prioritized physical health over mental health
- Coping mechanisms can include avoidance or distraction

Expert Interview Results





Expert Interview Results

- Every athlete is different, they need to be motivated through recovery
- A great relationship with the PT & a Sports Pysch. is important
- Timelines are important for motivating athletes, especially digitally
- Athletes lose interest during recovery, and doing it virtually can be very difficult

Expert Interview Results

- Focusing on the mental side is key
- It's hard to motivate athletes digitally
- Involve the coach with recovery
- A sports psych counsler would be helpful

Group Interview Results



Group Interview Results

- PT can be mentally draining
- The recovery process is drained out
- Working out is a natural coping mechanism
- Mental health resources would make a difference

Group Interview Results

- A set schedule prevents unhealthy coping mechanisms
- Athletes are accustomed to work through the pain
- A sports psychologist would be beneficial

Expected Outcome

Ultimately, we want to create an experience for injured athletes to help them with both the physical and mental coping that comes with an injury.

Most programs focus on one or the other, but it is imperative to address both simultaneously, which is our goal.

Athletes should feel...

Renewed

In Control

Content

Looking Forward

Sprint Week

5 Day Design Sprint



Sprint Week Process

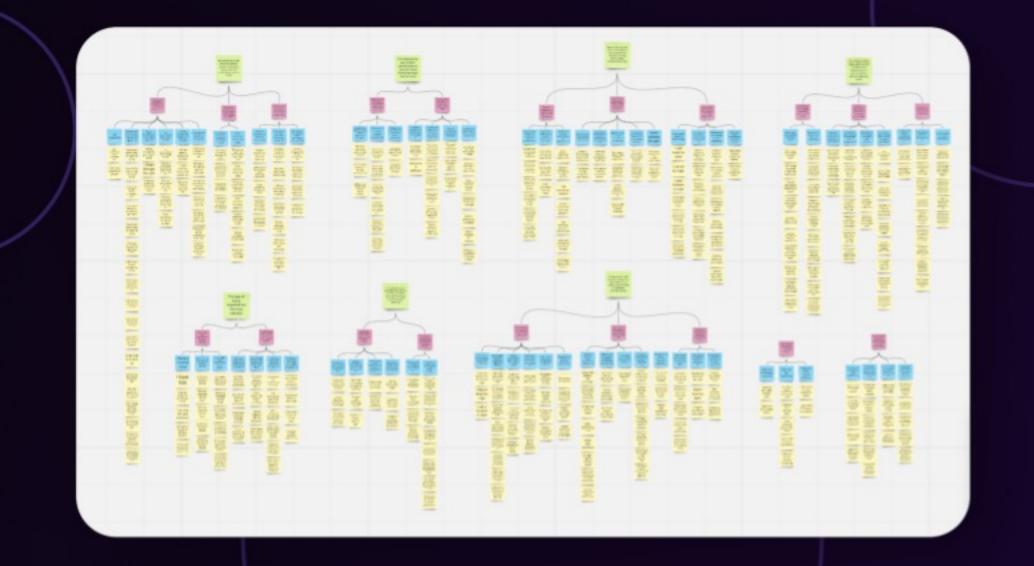


Sprint Week Takeaways

- Shifting focus to the physical side of recovery versus mental
- Focus purely on mobility injuries versus concussions
- How important the athlete, PT, and coach relationship is to physical recovery

Affinity Mapping





Affinitizing Insights

Many athletes play through the pain for a variety of reasons and when they become scared to reveal them or reveal their progress they are prone to re-injury.

x62

It is important to give athletes specific plans so they dont loose interest during a slow recovery.

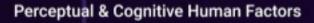
x29

Injuries take a big toll on mental Health and plays a big part into recovery and using healthy coping mechanisms can help.

x52

I wish there were another person to help with mental health because my PT did not acknowledge it probably because it is difficult to develop a relationship with them when they manage many people.

x60



Affinitizing Insights

Mobility and concussion injuries impacted athletes equally mentally.

x34

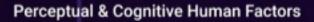
It is important to have a good relationship with your PT/Coach so they know what is going on and they can validate their feelings and provide positive reassurance.

x23



Getting mental health help from resources to gain healthy coping mechanisms or coming to realizations improves recovery.

x63



How Might Wes



HMWs

- How might we empower athletes to talk about their injury and recovery process?
- How might we create more structure in the athlete's recovery routine to encourage a more efficient recovery?
- How might we help athletes find more appropriate coping mechanisms and stop the use of avoidance and isolation?

HMWs

- How might we better the relationship between the coach, the PT, and the athlete?
- How might we aid in the recovery process of a mobility-related injury?
- How might we encourage the use of mental health resources to better an athlete's recovery process?

Insights

The recovery process as is **does not work** for most athletes. Athletes often prioritize their physical health much more than their mental health, which causes unhealthy coping mechanism.

The key to fixing this problem is **prevention**.

Personalizing and ratifying the recovery process from the beginning will allow for a better, faster, and more efficient recovery, which improves both mental and physical health for the athlete.

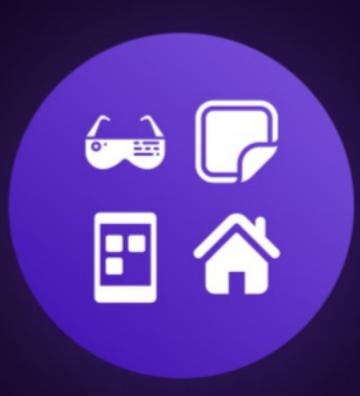
Intended Outcome & Impact



Intended Outcome & Impact

- Feel more in control of their recovery
- Feel empowered in their physical therapy process
- Find comfort in reaching out for mental or physical help
- Trust the process, themselves, their coach, and their PT

Idea Pool & Feasability Map





AR Glasses software that projects their physical therapy as well as acting as a team building device.



Smart Sleeve that measures muscle activity and activation of injured athletes.



PT device that also acts as a mental health resource. (Online Journal & Video Diary)



Home Physical Therapy Unit with a touchable screen interface and ability to connect directly with PT and Doctor.



Application to display and track all of their recovery and PT information.



Fitness ring to track all of their movement data and send it to the PT seamlessly



AR Glasses software that projects their physical therapy as well as acting as a team building device.

Fitness ring to track all of their movement date and send it to the PT seamlessly



Home Physical Therapy Unit with a touchable screen interface and ability to connect directly with PT and Doctor.



Smart Sleeve that measures muscle activity and activation of injured athletes.



Application to display and track all of their recovery and PT information.



PT device that also acts as a mental health resource. (Online Journal & Violeo Diary)



Storyboards & Concepts





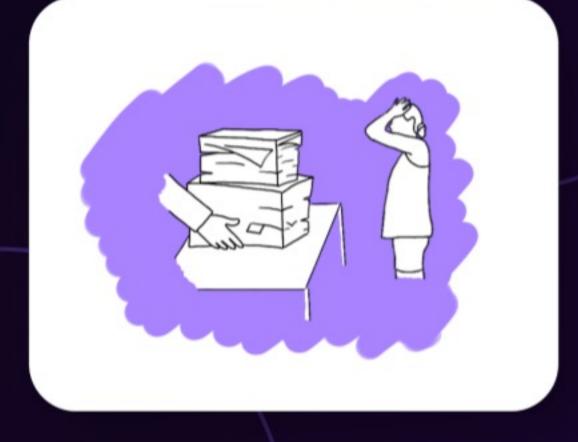
Home Physical Therapy Unit with a touchable screen interface and ability to connect directly with PT and Doctor.

- How might we create more structure in the athlete's recovery routine to encourage a more efficient recovery?
- How might we better the relationship between the coach, the PT, and the athlete?
- How might we aid in the recovery process of a mobility-related injury?
- How might we visualize and gamify the athletes mental and physical recovery while working and sharing their progress with the trainer/coach/doctor?

Concept One: The Puck

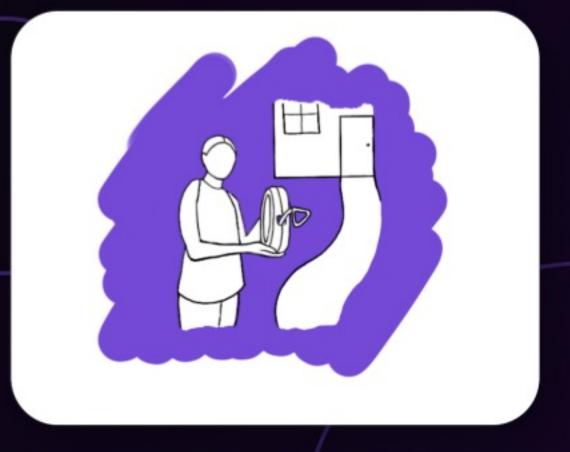


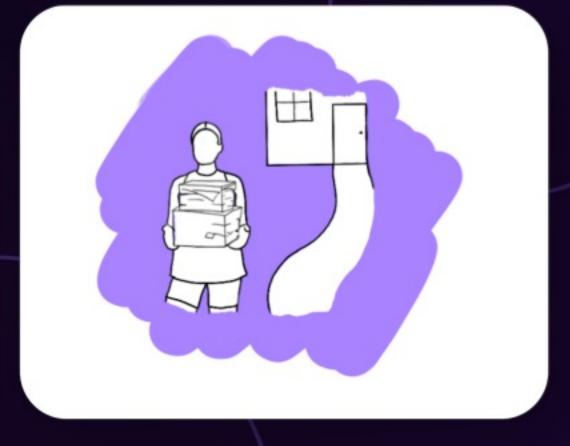




Puck tutorial by PT, given to athlete to use at home.

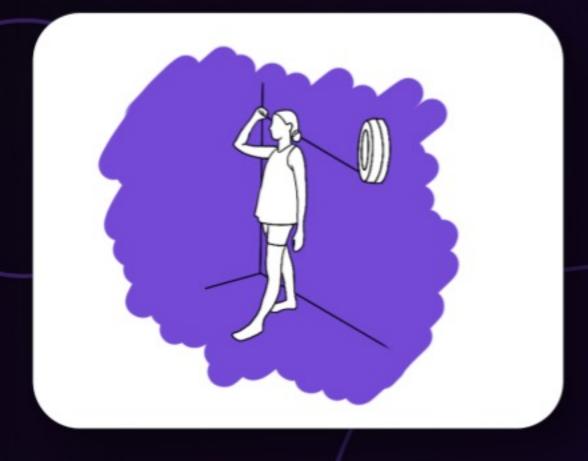
Recovery plan printed out and given to athlete.

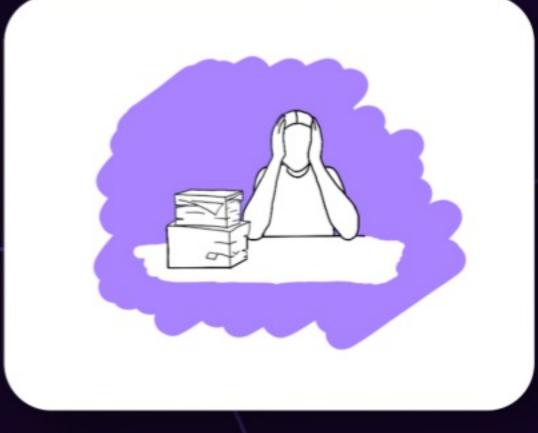




Athlete brings the puck home.

Athlete brings paper plan home.

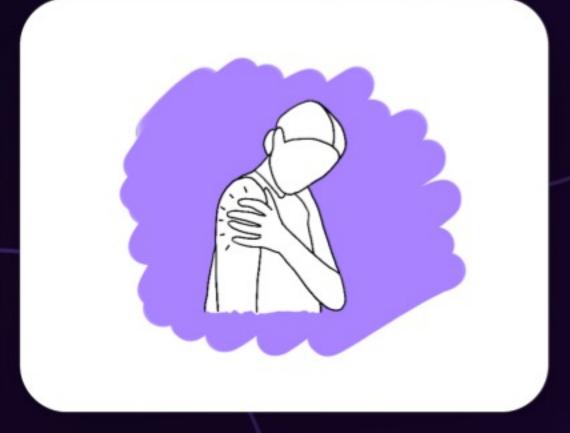




Puck provides daily planned exercises on screen.

Athlete struggles to sort through paper plan.





Post physical therapy survey to provide feedback with PT.

Athlete re-aggravates injury after not doing exercise correctly



AR Glasses software that projects their physical therapy as well as acting as a team building device.



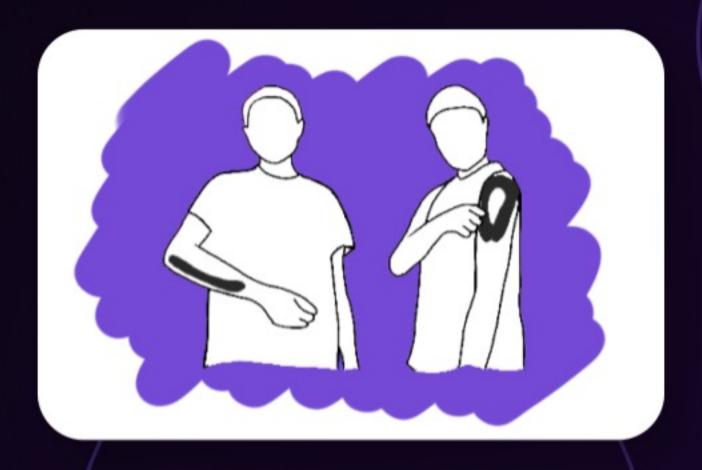
Muscle patch the measure the stretch of a muscle and can alert when a certain muscle is being used too much.

- How might we visualize and gamify the athletes mental and physical recovery while working and sharing their progress with the trainer/coach/doctor?
- How might we develop the relationship between the athlete and available resources to create healthy recovery habits?
- How might we create more structure in the athlete's recovery routine to encourage a more efficient recovery?
- How might we help athletes find more appropriate coping mechanisms and stop the use of avoidance and isolation?
- How might we motivate injured athletes to advance through recovery?

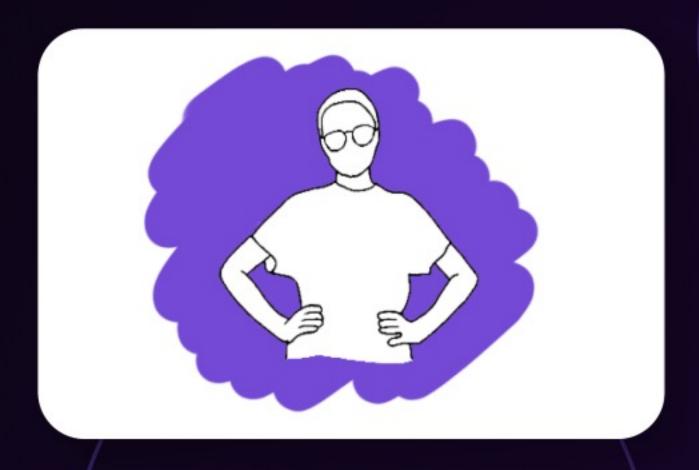
Concept Two: AR Glasses and Muscle Patch



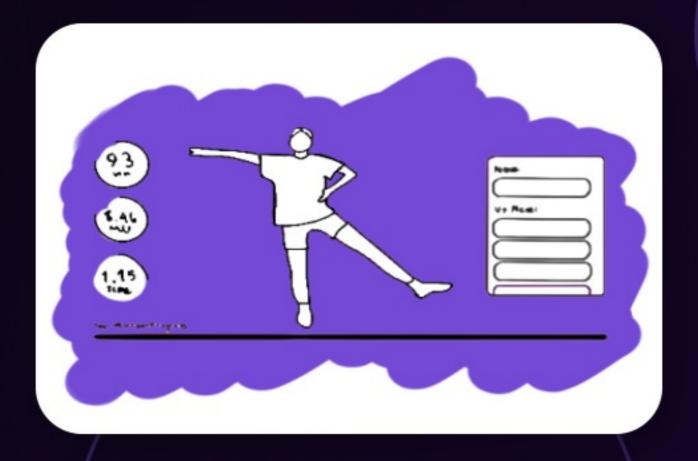




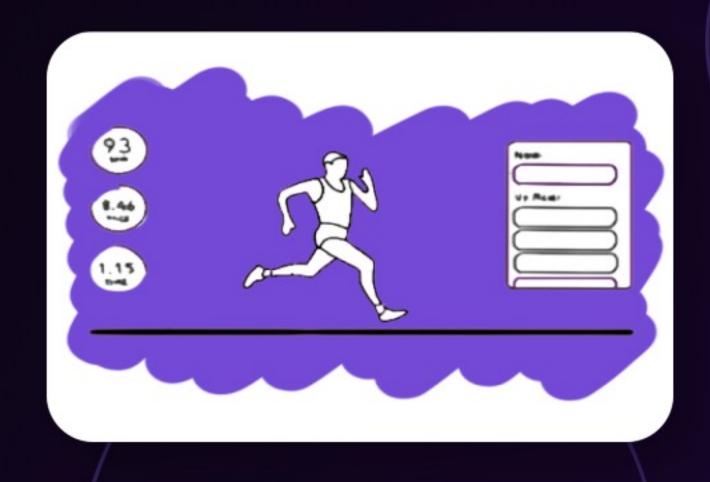
All athletes are assigned a muscle patch.



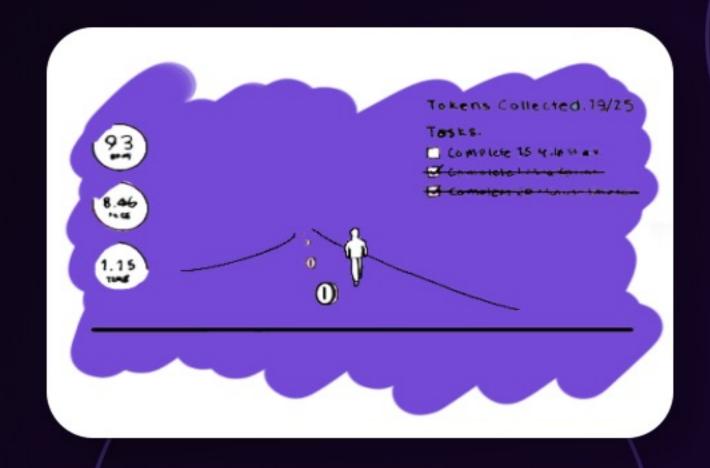
Athlete given AR glasses by trainer.



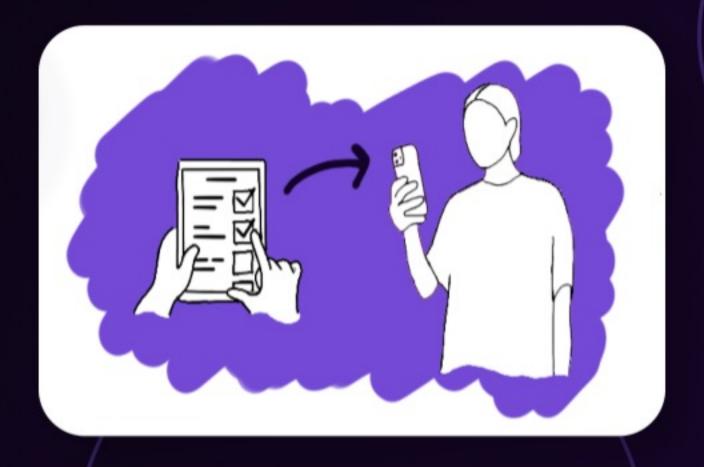
Athlete completes physical therapy with the team.



Athlete is able to connect with their team members.

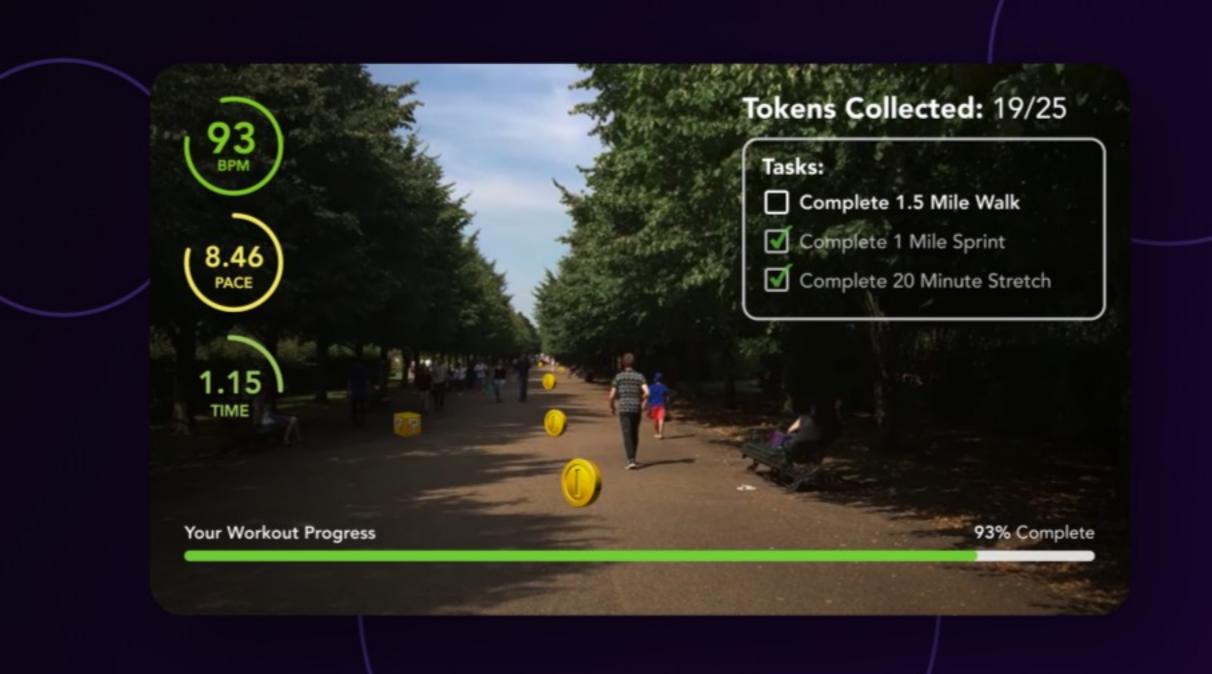


Through gamification, the athlete is able to complete more at-home excercises.



All progress is tracked and sent directly to the athlete and PT.

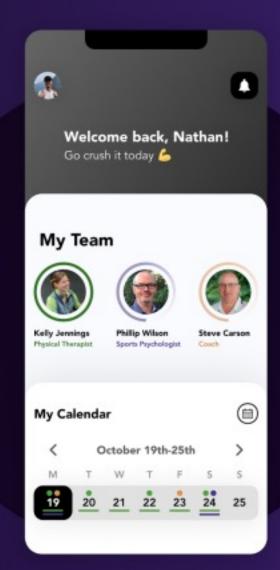






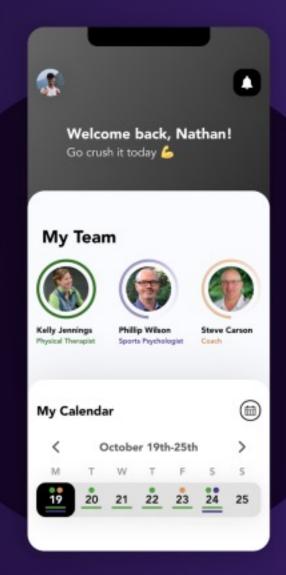
App Concept

Application to display and track the athletes recovery timeline and PT information while focusing on mental stability.



App Features

- Fast, reliable connections to an athlete's PT, Sports Psychologist, and Coach
- Intuitive workouts provided directly from the PT with the chance for easy, fast feedback
- Mental Health Toolbox to encourage athletes to consider their mental health in recovery
- Comprehensive information visualizations to better understand the recovery process



Product Concept

A wearable sleeve that measures muscle activity and activation of injured athletes. To allow the user to see live feedback of their injured muscle group, and give direct data to them and to their PT.



Product Features

- Direct connection to Cora's application component
- Electrodes in the sleeve measure muscle activiation, as well as a heart rate sensor to measure workout intensity



Unique Selling Point



Unique Selling Point 💝

Other competitors are using a similar product, but have a different approach such as home yoga and daily athletic training.

We are combining the wearable sleeve with our app showing the athlete unique data that will enhance the mental and physical recovery experience.

Interaction Model

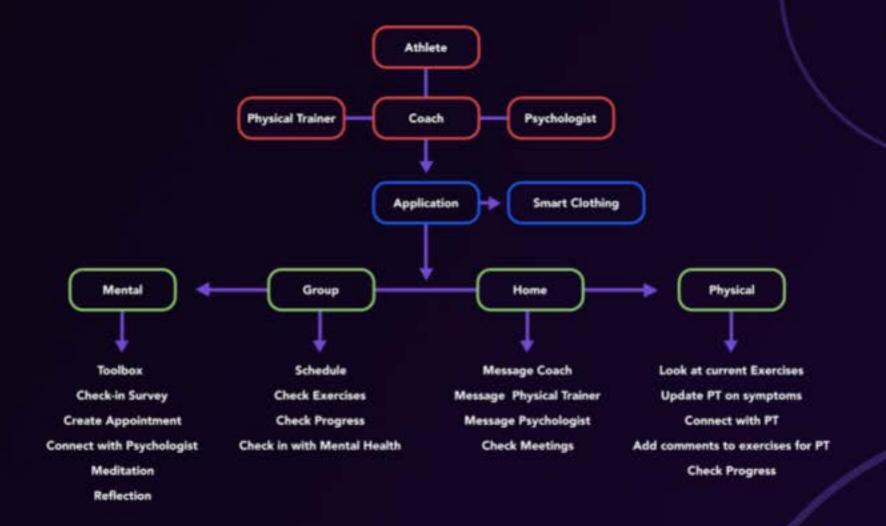




Site



Perceptual & Cognitive Human Factors



Personas & Journey Maps





Biography

Nathan is a sophomore collegiate athlete that plays basketball at the University of Florida Gulf Coast. During his freshman year Nathan was able to get some playing time, but him and his coaches are expecting a much larger role for him going into his second season. Unfortunately he tears the quadricep muscle in his left leg during a preseason game. Nathan is now unable to play for around four to six months, and has to do daily physical therapy. Early on during his recovery he hasn't seen or felt much progress and is starting to feel down.

Jamar's

Frustrations

- . Cant play for a long period of time
- . Slow recovery progress
- + Doesn't know how to cope with injury

Jamar's

Needs

- . Motivation to stay on track for recovery
- . See and feel his recovery progress
- . Healthy coping mechanisms

Personality
70% Extraverted

65% Feeling

65% Intutive

80% Judging



Nathan's Current Journey



Do	Goes to the first preseason game of the season,	Tears his left quad during the game.	Leaves game to go see the team doctors and conduct tests on his shoulder.	Doctor tells him his left quadricept is tom and that he will miss the rest of the season.	Starts his four to six month recovery process by getting surgery and beginning physical therapy.	Doesn't quite understand the recovery process and doesn't feel like he's making any progress.	Fails behind on recovery process, which delays her recovery time. Coaches are not happy with her, because she could now miss most of next season.
Think	"Excited that the season is almost here" "Can't wait to finally have a meaningful role on the team"	"Could I be out for the season with this?" "Why me?"	"Please let it be just a pull or strain" "It's probably isn't a tear, I'll be fine"	"Will I ever be the same player again?" "I'm going to have to earn my role all over again"	"I need to start this recovery process"	"It really hurts to do some of these exercises" "I shouldnt push myself too hard, I dont want to damage my knee anymore"	"I now have to makeup all the time I lost" "How arm I going to earn that role again if my coaches don't like me"
Feel	Excited, Focused	Frustrated, Scared	Stressed	Angry	Anxious, Motivated	Anxious, Isolated	Depressed
Opportunities	9				Review entire recovery process step by step with PT. Provide coaches access to the players progession during recovery.	PT's provide clarity on daily and weekly exercises. Build empathy for pain, but provide motivation so atheletes can push through to regain strength.	Offer access to sports psychologists and other mental health resources when suffering a setback, or during a slow recovery.
	©			•			

Overarching Questions

To gain specific insights on what to improve on, we followed these four overarching questions...

Navigate the application with ease.

Feel motivated to use the application.

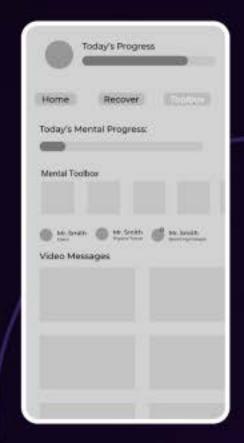
Information is clear and informative Has resources I would use for my physical and mental health.

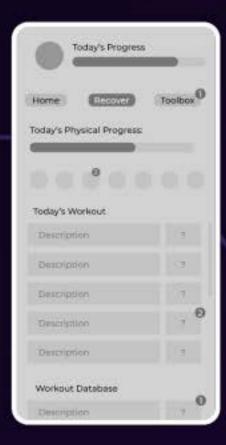
Low-Fi Prototype



Low-Fi Screens



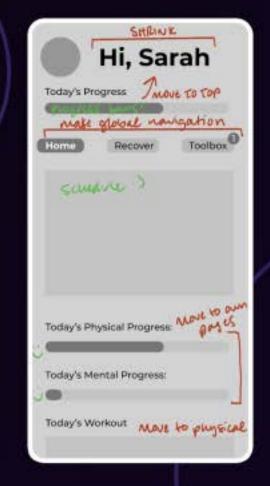






Evaluation Questions (Low-Fi)

- What's the most effective way to motivate users to complete their physical therapy?
- How do we encourage the goal gradient effect for their exercises and mental health tools?
- How can we avoid feature bloat while still employing a cohesive, universal concept?
- Are we actually aiding physical recovery?

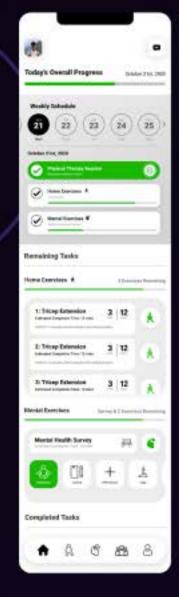


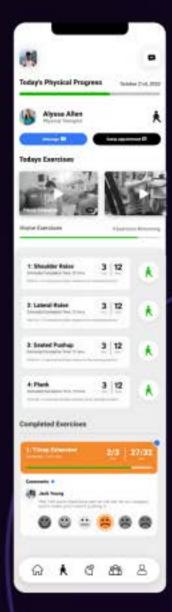


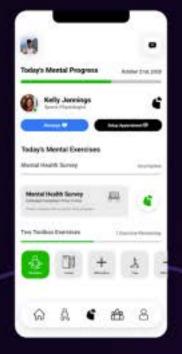


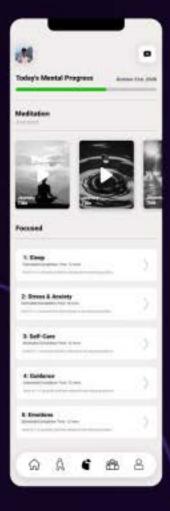
Mid-Fi Prototype

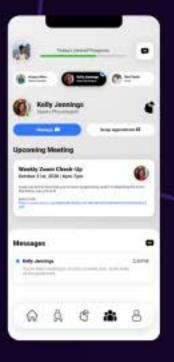












User Testing Methods



Perceptual & Cognitive Human Factors

User Testing Methods

Quasi Empirical

Used a 1 to 5 system usability scale, and calculated the average score.

Questionnaire & Survey

Participants are asked 10 questions in a post test questionnaire and completed a 4 question survey

Quasi Empirical

System Usability Scale

- 1 Strongly Disagree
- 2 Disagree
- 3 Indifferent
- 4 Agree
- 5 Strongly Agree

Average SUS Score = 77.3

SUS Score	Rating
>80.3	Excellent
68-80.3	Good
68	Okay
51-68	Poor
<51	Awful

Post Test Survey

To gain specific insights on what to improve on, we followed up with a survey for our evaluators right after they finished testing.

What was your overall impression of the application?

What was the best and worst thing about the application?

How would you change the application?

How would you compare it to your in person physical therapy experiences?

User Feedback



User Testers

Experts

What was the best thing about the application?

"The best thing I noticed from the application was being able to see your progress bar, I know it's there to motivate me to finish my work and I think it does just that."

"The best thing I liked about the app was the progress bars and the mental aspect tab. I really liked how you are able to see daily progress and directly contact the therapist."

Perceptual & Cognitive Human Factors

What was the worst thing about the application?

"Make certain things priorities, add a checklist, and space for learning more about the app so its not information overload."

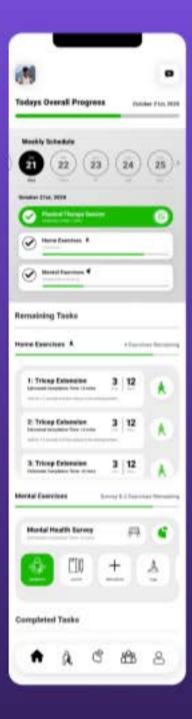
"Overall the app shows too many of its options all at once. I think adding clear tabs to open one part of a page at a time will be easier to navigate and understand."

Perceptual & Cognitive Human Factors

User Observations

Many users said the homepage was redundant and had information overload.

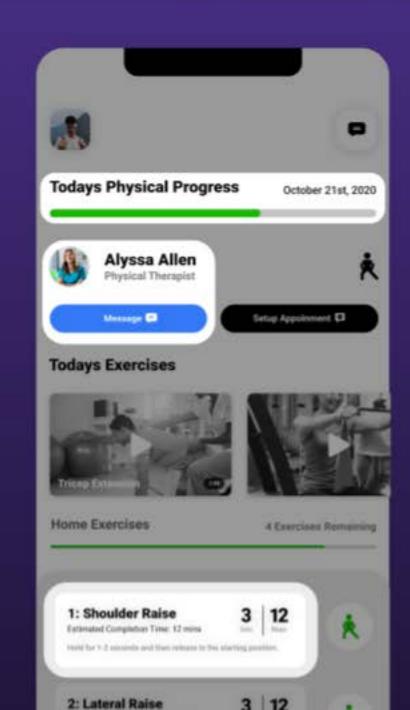
- "Home page may not be necessary, or just have it be schedule and profile, and the checklist is very redundant."
- "The worst thing at this moment was the home page, it felt a bit hectic."
- "Home page feels repetitive for the individual tabs."



User Observations

Many users enjoyed the ability to see their workouts and directly connect with their therapist.

- "I liked how you can message your therapist, coach, and sports psych."
- "The detailed workouts and customizable rep counter and other bells and whistles."
- "I really liked how you are able to see daily progress and directly contact the therapist."



Expert User Testing



Perceptual & Cognitive Human Factors



Wyatt Michel
UX Designer at IBM
SCAD UX Senior



Joseph Smith
UX Designer at IBM
SCAD UX Senior

Expert Testing Insights

- Information Hierarchy Issue
- Concerned of mental tasks overloading the athlete
- Make the team (PT, Sports Psych, and Coach) more of a focal point
- Provide step by step instruction when completing exercises



1) It is easy to	o get fami	liar with t	he platfo	em
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2) You were a effort	ible to ace	ess your s	chedule	convieniently without unnessary
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0	0	0		•
3) You felt in	control of	the inter	action, it	is secure and predictable
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4) You were a	able to uno	ferstand	the navig	ation bar in the application
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0	0	0	0	9.
5) You felt ex	cited and	motivate	d to use t	he platform
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0	0	9		0
6) Exercises	were clear	ly explain	ed and e	asily accesible
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7) Being able feels practica		vith the pi	hysical th	erapist and psychologist via app
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you would us	e	9000	-	=
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Mid-Fi Questionnaire Results



- "Love the design, but the hierarchy is a bit off. There's a lot of information at once and it feels like an overload."
- "Everything was clear, but I want some sort of universal checklist instead of trying to find everything in all the pages."
- "If it was kept up with, the messaging side of the app would be the most beneficial in my eyes."
- "It's not the same as in-person, but I could see myself using this as a replacement for at-home physical therapy."

Changes to Mid-Fi





After his daily exercise he completes a mental check in and meditation.



He connects his sleeve to the application and gets real time data while exercising his torn leg.



Throughout the whole process his "team" is there to track and support his progress.



He checks his schedule then goes to begin his first exercise of the week.



After Nathan injures his left quad he signs up for Cora to start completing his four month physical therapy journey.

CORA Ratifying Your Recovery

A wearable smart sleeve that provides muscle activiation data, paired with a mobile application that connects athletes with their physical trainer, sports psychologist, and coach to create a seamless at-home physical therapy experience.



Our Final Solution

Drumroll please...

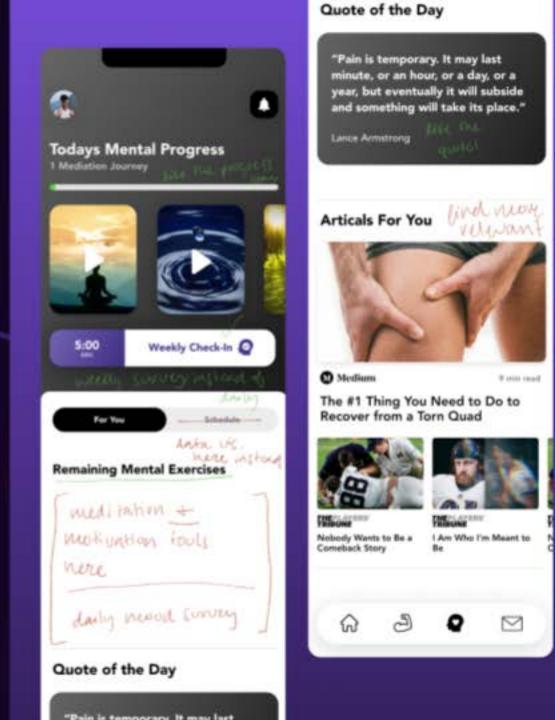


Changes to Hi-Fi

- Shifting focus to data visualization on both physical and mental pages
- Add flexibility and heart rate to physical page
- Adding pop up suggesting care after rating pain 8 or more on 3 exercises
- Add content to mental tab

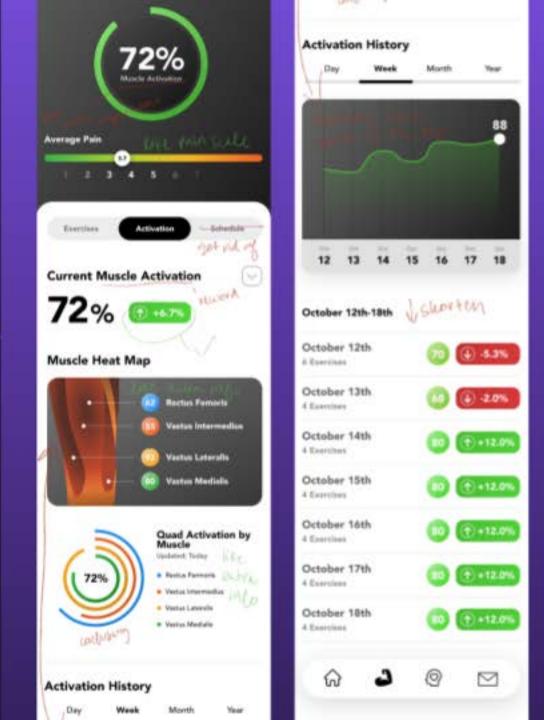
Mental Page Changes

- Add a info visualization section to match the physical page
- Add a daily survey to have data for the data visualization.
- Remove schedules tab



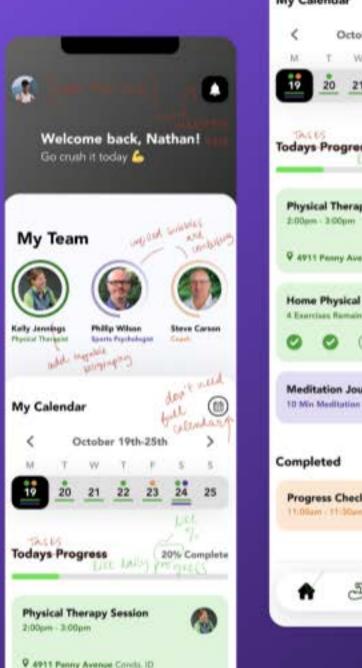
Physical Page Changes

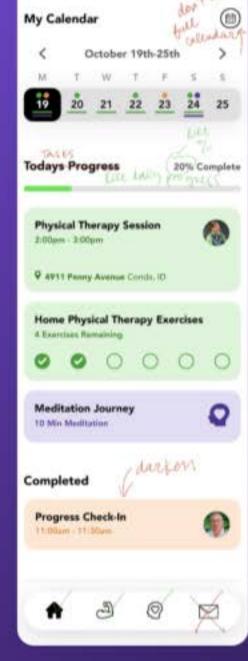
- Add more info visualization under recovery (Mobility, Heart Rate, Intensity, etc.)
- Remove the schedules tab
- Replace the pie chart at the top of page with the line graph at the bottom



Home Page Changes

- Take messages out of the global navigation and move it to where the notifications icon is
- Elimate expanded calender button and add a drop down menu
- Remove the half opacity offline ring behind team members to make the color more obvious
- Change "Todays Progress" to "Todays Tasks"





Changes to High-Fi



Perceptual & Cognitive Human Factors



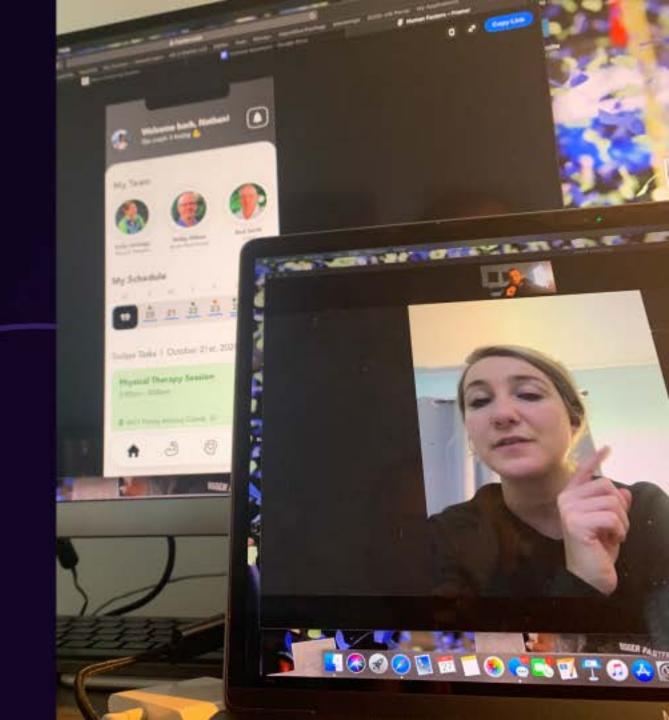
Hi-Fi Questionnaire Results



- "I like the color coding. It's a little hard to tell what each color represents at first, but when I got it, I liked how organized it was."
- "I wish the smart sleeve would give more information, like mobility, flexibility, heart rate, etc."
- "This would take a huge load off trying to go in and see my physical therapist all the time. I'd rather do it online."
- "The most important thing for me is the data visualization. What do I need to know, and where can I find that information?"

Expert Testing Insights

- Much improved info arch and navigation
- Something that PT's need today
- Loved some of the data visualization
- Concerned on the possible cost of the smart sleeve
- Add data visualization to the mental page





Aylssa Dorney

Physical Therapist Loyola Honors Graduate



Joseph Smith

UX Designer at IBM SCAD UX Senior

Expert User Testing



Perceptual & Cognitive Human Factors

Hi-Fi Testing Insights

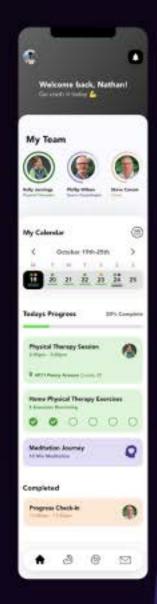
- Better organization of data and visual hierarchy improved
- Still some redundencies in information
- Users want more data visualization, especially included in the mental health side of the application.
- Love the idea of the smart sleeve, but how accurate and expensive is the tech?

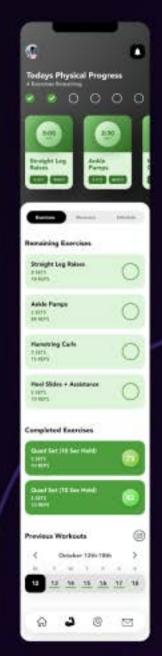


User Feedback

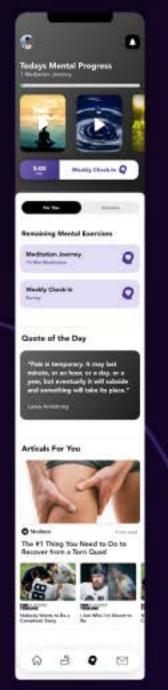


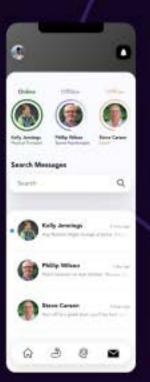
Perceptual & Cognitive Human Factors











High-Fi Prototype



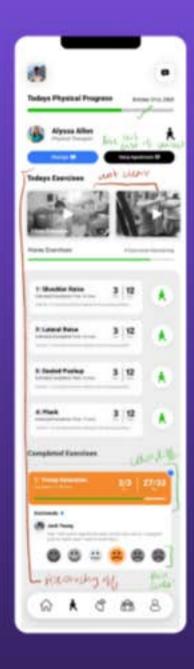
Mental Page Changes

- Change page icon
- Add content other than meditation journeys
- Add data visualization to match physical



Physical Page Changes

- Remove videos of the assigned exercises
- Change progress bar to a segmented checklist
- Add data visualization for smart sleeve



Homepage Changes

- Remove progress bar for both mental and physical exercises
- Add a monthly view to the schedule
- Add clickable profiles of the PT, Sports Psych, and Coach at the top
- Remove message button in the top right



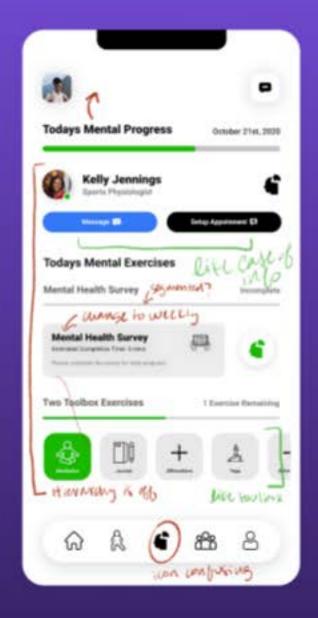
User Observations

Many users enjoyed the ability to see their workouts and directly connect with their therapist.

"I liked how you can messge your therapist, coach and physiologist."

"The detailed workouts and customizable rep counter and other bells and whistles."

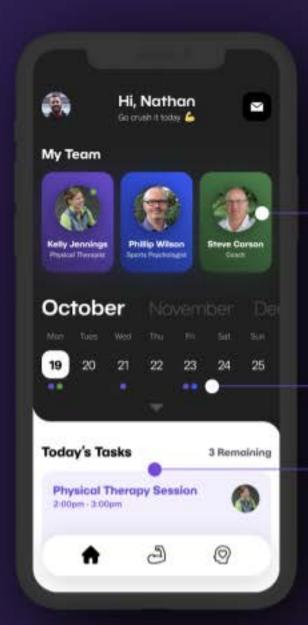
"I really liked how you are able to see daily progress and directly contact the therapist."



Changes to Mid-Fi

- Change information hierarchy on home, physical, and mental tabs
- Remove "community" tab
- Adding pop up suggesting care after rating pain 8 or more on 3 exercises
- Add content to mental tab

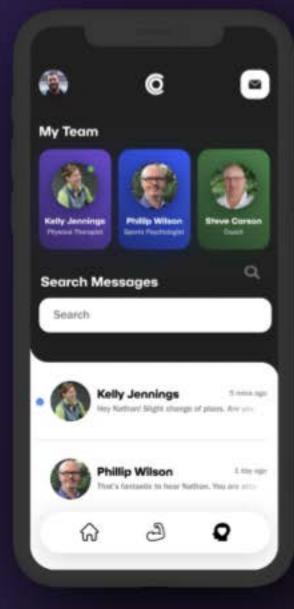


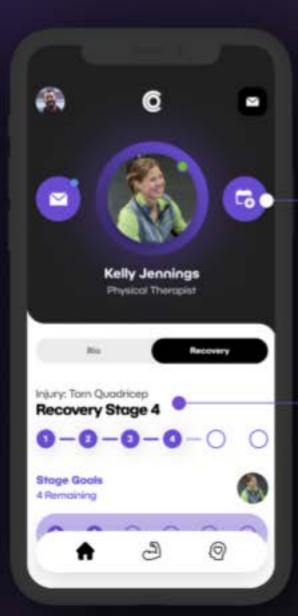


Color assigned team members (PT, Sports Psych, and Coach) paired with a calendar making it easy for athletes to stay on top of their recovery plan

See your daily tasks for the day to help you stay on track

Direct message your PT, Sports Psych, and Coach at anytime in the app.

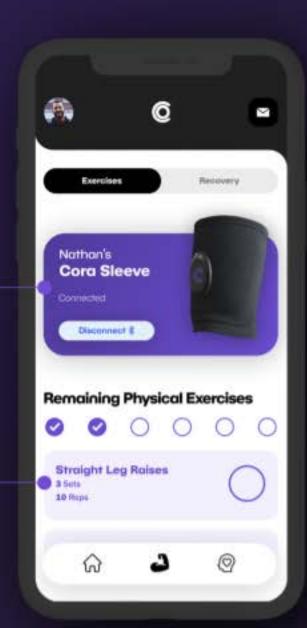


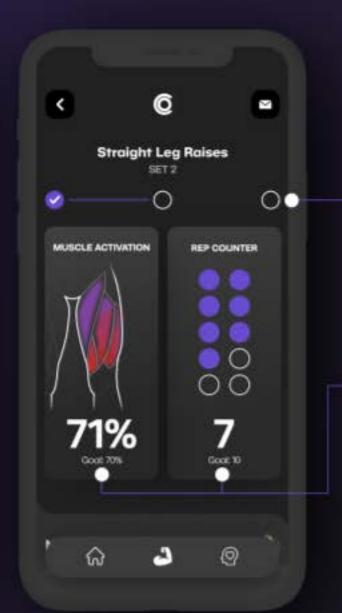


Schedule an in person appointment or call

Track recovery stage and goals set by Physical Therapist Connect your Cora smart sleeve directly through the app

See assigned physical therapy exercises from your PT





Exercise Set Progression

Live muscle activation and rep counter while doing exercises Overall muscle activation and completed reps for each set

Pain scale to provide feedback to PT



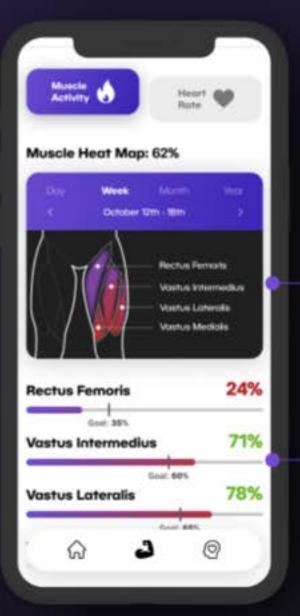


During exercises
Cora can provide
suggestions using
real time data to
make sure athletes
are getting the most
of their exercises

Goal gradient for reaching recovery goals

Information Visualization

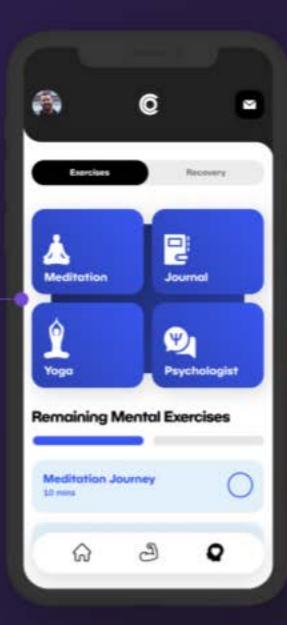


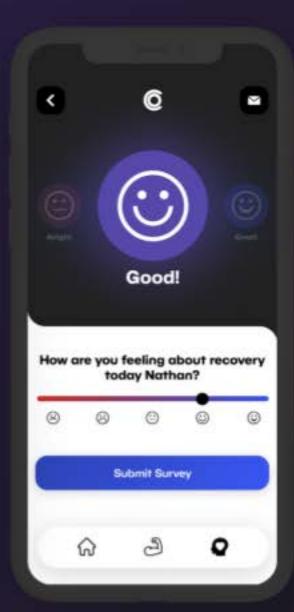


Muscle Heat Map

Individual muscle goals and current activiation

Toolbox to provide athletes mental resources during recovery





Daily mental survey for provide athletes data on how their feeling during recovery. Goal gradient for reaching mental goals

Pain scale information visualization





Information visualization using data from daily survey.

Product Prototype





EMG: \$38

Bluetooth: \$1

Data Storage: \$1

Battery: \$1

Heart Rate Senor: \$1

Total: \$42



Sleeve: \$10

Electrodes: \$25

Total: \$35

Overall Primary Cost

\$78

Retail Price

\$200

Profit Percentage

156%

Sleeve

Manufactoring Cost: \$35

Retail Cost: \$100

Sleeve Profit: 185%

Pod

Manufactoring Cost: \$43

Retail Cost: \$100

Sleeve Profit: 131%

How does this CORAlate with our factors?



Physical Thriving

 Physical therapy with Cora makes sure you're on track to get back into excellent physical condition.

 With Coras info visualization it makes sure your body is getting the perfect amount of exercise, while also ensuring you don't strain your body.

 With Coras mental health aspect and strong motivation from your team, athletes will feel a strong sense of well being.



Competence

 Using Cora the athlete will be able to see their overall progress, resulting in a feeling of self sucess.

- Physical therapy is a challenging task within itself but, with cora the athlete will also be able to visualize that they are mastering these exercises.
- Coras goal is for the athletes to feel accomplisment and show they are capable to have an efficent recovery.



Our Final Deliverables

Vison Video



https://www.youtube.com/watch?v=Nj6HcZBouAM&feature=youtu.be



CORA Executive Summary

The Problem

Athletes need a personalized and comprehensive recovery plan that focuses on both the physical and mental components of an injury with an easier way to track their progress.

The Solution

A wearable smart sleeve that provides muscle activiation data, paired with a mobile application that connects athletes with their physical trainer, sports psychologist, and coach to create a seamless at-home physical therapy experience.





Application

- · Fast connections to your PT, Sports Psychologist, and Coach
- . Workouts provided directly from the PT with fast feedback
- . Mental Health Resources
- . Comprehensive Information Visualizations

Sleeve

- Direct connection to CORA's application
- Electrodes in the sleeve measure muscle activiation, as well as a heart rate sensor to measure workout intensity

Poster

CORA **Ratifying Your Recovery**

The Problem

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The Solution

A wearable limort sleave that provides musicle activation duta power with a mobile application that connects strated with their physical trongs sports postfemates and coach to centre a promises of home physics therepy experience







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Physical 🙆



Mental

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Our Process

We consigned a 15 week design sprint forward at the offsection. female experies are holing where helr could resid improve









MOT 375 Felt 2020



Professor Sung Pork

Sovernoti Millianoi

Suffect Wilcom

Toylo Reservice

Southwest

SEISTH HURION

Lookbook



C Thank you!