Client

• Health insurance companies

Need Statement

People with hand disabilities and injuries face challenges in attending physical therapy sessions
multiple times a week during their period of recovery due to the demands of their lives. This will
slow or reverse recovery progress if sessions are insufficient or missed.

Goal Statement

 We aim to address this by providing a device that allows clients to perform their exercises at home, reducing in-person visits. Our goal is to make rehabilitation more convenient, accessible, and efficient, enabling clients to have more control over their recovery

Design Objectives in Words

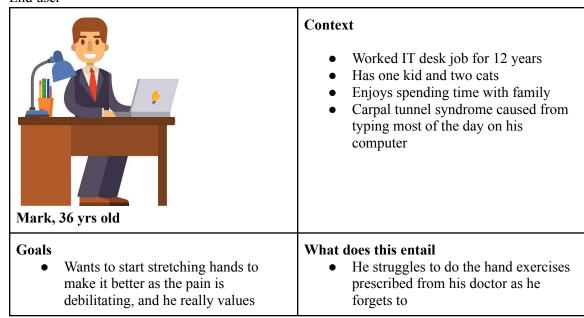
• We aim to reduce physical therapy visits up to 50%, subsequently reducing insurance costs

Design Objectives as Quantified Table

Design objective	Unit	Target/Range	
Visits	Number of visits	10%-50% less	
Device cost	dollars	>\$1440	
Accessibility	Minutes	Greater than session time	
Weight	lbs	<2lbs	

Personas

• End user



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The device will help him be consistent



Samantha, 25 yrs old

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Context

- Weekend yoga instructor and passionate barista
- Enjoys hiking, taking care of her plants, and spending time with friends
- Got into car accident and injured hand
 - Lost a lot of strength and mobility because of prolonged cast duration

Goals

Remain consistent to regain hand mobility

What does this entail

- Struggles with progressing and sticking to physical therapy routine due to active/busy schedule
- Stiff/weak joints, time sensitive to regain strength and mobility
- Will allow her to progress without losing progress



Tom, 42 yrs old

Goals

- Be able to prescribe exercises and track progress remotely with potentially stubborn clients
- Retain clients who otherwise would

Context

- Physical therapist
- Passionate about helping his clients the best he can
- He loves eating taco bell, refuses to get it himself, only uses doordash
 - Devastated that apple empanadas are discontinued
 - Limited time nuggets :(

What does this entail

 Understands that clients have a hard time making it to appointments and not everyone can afford to see him often

cancel therapy altogether

• Clients



Context

- Mid-size health insurance company
- For profit company
 - Wants to buy product to provide a service at a cheaper price
 - Increase retention rate for provided service

Insurance Company

Goals

- To provide affordable healthcare to the average person
- Allow more accessibility to physical therapy exercises

What does this entail

- Replacing physical therapy visits
- Increasing more End Users to have access to in person therapy meetings