## 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

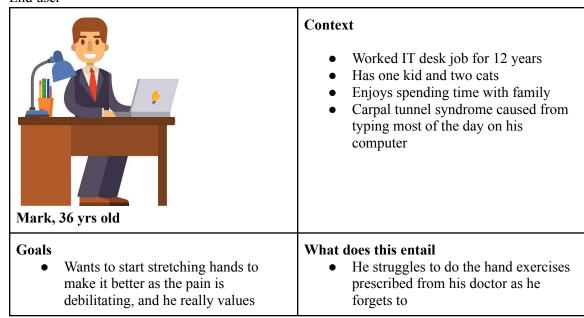
• We aim to reduce physical therapy visits up to 50%, subsequently reducing insurance costs

## 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



being active with his family and pe	ts
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• The device will help him be consistent



# Samantha, 25 yrs old

## Goals

• Remain consistent to regain hand mobility

## 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

## 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

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