Karcher's Feedback

Problem
Too many solution ideas, make the problem more specific to one of our problems.
Therefore pick one thing and do it well from:

- Hydration
    - athletes
- Stretching
    - Who are we serving
- Exercise
    - Teachers? students

We NEED to really think of the specific person and specific situation in which our solution applies

Proposed Idea
~~What is our idea. Share our ideas now We need to be really particular. "Make moves on those things" -Karcher about the details~~
Not enough of a solution, very un-detailed. What is a self-help device? What is the hardware backend?
Curate the idea a little more and put it on the website
Hardware block diagrams
Flowcharts for UX

Testable Hypothesis
What test on demo day or on video do we plan to do?
Finding what specific feature we want to enact then we can demonstrate that better.
Must be shown in a demo or a video
Short term, 5 to 10 minutes is great to show how things works, but it should be full features, thus showing how we are solving the problem.
If the reminder tells you to do something then you do the thing because your
Possible to accelerate the test to demonstrate the experience on a short time frame.

Milestones - super important
Need specifics and need deadlines
What will we achieve by when?
Be specific, what is the standalone application?
Indicators, sensors, time loop, reaction…

Milestones are meant to help us keep moving along and understand where we need to be so we can decide where to spend our energies and how much time we have.

"Achievements and deadlines"

Ask about available parts
Send an email for questions
Next deliverable have more details -> on the website see piazza

Brainstorming

Routine <3:
Problem: Engineering Students struggle with building consistent routines, which impacts their mental health.

Situation: Engineering students have to prioritize many obligations. This leads to picking and choosing whether or not to follow a routine or sacrifice it in order to meet their obligations as a student (club, hw, existential crisisesesesesee)

What do we propose as a solution:
Our solution is an *assistive device* that encourages and helps engineering students to build and be accountable to a routine.

How our solution applies:

Melissa: It helps give a guideline for students who want more routine, organization, and prevents overthinking about how to block out a day. By sticking with a routine I would have more time to accomplish obligations and avoid procrastination.

Giselle: Simplifies creating a routine to allow students to get obligations done, organizing things based on priority.

Dustin: Our solution applies by providing structure around routine building and execution. The core application is to analyzing, organizing, and being accountable to a routine

What is a self-help device (proper word pending): An assistive device that helps an individual accomplish a task. Assistive devices are external devices designed, made, or adapted to assist a person in performing a particular task. Many people with disabilities depend on assistive devices to enable them to carry out daily activities and participate actively and productively in community life.

What is the hardware backend:
Brain Buddies Parts List

Hardware block diagrams:

Flowcharts for UX:

Curate the idea a little more and put it on the website:

We NEED to really think of the ~~specific person~~ and specific situation in which our solution applies

~~Students who are overworked, overbooked, overwhelmed, have troubles with routine and mental health.~~

~~How do we expect stretching to be a solution to our problem?~~

~~Melissa: Our stretching solution can target unorganized college students, undergraduate and above, who would like to gain more structure within their routines and have a way to manage their days more easily. Many people can get overwhelmed with their course load and not focus on keeping up with assignments, physical health, and structure within their schedules.~~

~~Giselle: stretching helps to notr~~

~~Who are we targeting with stretching?~~

~~Melissa:~~

~~Giselle:~~

~~What is the specific situation in which we expect our device/program to be used?~~

Melissa’s Storm Brain Zippy Zaps:

- When people want to create a morning routine, we can suggest quick and easy recipes (under 10 minutes or less) that students can make in the mornings in order to encourage making more home-cooked meals daily
- App can target customizable routines specific to the users needs (morning routine, night routine, daily routine (all day), and etc
- For hydration and other things, we can give suggestions to the user (such as go on a walk for 30 minutes or fill up water bottle with ice before leaving the house for the day) as they are in the process of making their schedules like a pop-up or a chat bubble on the side
- Helps avoid misuse of time by assuming you have freetime
- User can make schedule by creating blocks and moving them around for a weekly layout (blocks looks like google calendar setup but more interactive and easier to make)
- Suggestions:
    - Look at inconsistencies in schedule and give feedback in weekly summary
    - Example: if they skip a task too consistently (like cooking) and replace it with studying, we can suggest they cross out a different task on their list with less priority on the device. In the weekly summary, point out the inconsistencies in their scheduling and give some feedback (stick with their schedule and less procrastination! Whole point of maintaining a routine is to avoid procrastination and have a healthier balance with personal life and school)

Giselles Brain Space

- Type of routine??
- By seeing your routine is helps reduce stress because you know what you should be doing.
- Too strict of a routine can add frustration and anger, and interruption to expected time is an issue
- *Add mandatory buffer time between tasks?* (Dustin)

Device Ideation Session

Program Features

- Switching screens with a joystick using left/right motion (home screen, focus mode screen (have complete,cancel, or move task options), maybe separate screen for task or schedule display… simple designs)
- On/off button separate from yes/no/maybe buttons
- Color coordination(red = no, green = yes, etc)
- Display notifications while on maybe homescreen ??
- LEDs around
  New:
    - Switching screens with up/down buttons
    - Select buttons will have control of choosing tasks or page to stay and scroll on (press button once to stay on page and use up/down buttons to scroll through that page/ maybe two presses to exit out of page(have different modes depending on the number of times the control button is selected)

Graphics

- Having a todo list on display for home
- Little icon on the screen (cute mascot or pet)
- Checks off little todo list as the day goes by
- Button purposes will be displayed on screen when relevant
- Screens for different purposes (study, schedule display, home screen, etc…)

- Designated screens def home screen and task overlook/routine of student

Buttons (Types and functions for each)

Purpose of buttons will be displayed when relevant time depending on screen

- Joystick: (bottom left)
    - Moves up and down to navigate along the already set routine tasks
    - Moves left and right to switch screen view of all tasks, current tasks, or future tasks
- On/off switch:
    - Control the setting of the device
    - Pick type of on and off button and position
- Other buttons:

        - One button confirm selection(yes button)
        - One button to skip task (S)
- 4 buttons for tasks
    - on/off button
    - Yes
    - No
    - select button (highlights tasks or option that is selected by the user on screen)
    - Keep button

Other Ideas/notes

Parts/Components

- Screen
    - What kind of connectors? Pcb connection, flex pcb, or wires?
    - Size Parameters：55.5(W)x98.0(H)x12.98(D)(mm)(including Pin Header)
    - Active Area (viewable area)：48.96(W)x73.44(H)(mm)
- Neopixels
    - Size?
    - Type?
    - Color range?
- Battery
    - Pillow/Flat type?
    - Min/Max size?
    - Connector type?
    - Mcp chip for battery charging????
- On/Off button/switch
    - Type?
    - Size?
- Speaker
    - Size
    - Type
    - Power Requirements?
    - Look at projects like arduino ones and see types of speakers being used
        - Possible speakers:
            - adafrui
- Buttons
    - Quantity
    - Type

If cheap, just order

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