Website Draft: Due Nov. 4, 2024

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- **Address/Implement feedback from Week 4 instructor meeting**
- **Translate slide material onto webpages**
    - **Does not yet need to be aesthetically pleasing (unless feedback was to make it that way)**

https://m7delacruz.wixsite.com/brain-buddies

1. **Website -** home page with general layout/place holder boxes
    i. On your webpage(s) include updates for
        1. Problem Definition
        2. Proposed Idea
        3. Testable Hypothesis
        4. Milestones
2. **Video -** brainstormed ideas, identify (free) editing software
3. **Poster -** Google Slide (correct slide) General Boxed Layout

1. Problem Definition

Engineering Students struggle with building consistent routines, which impacts their mental health. (GOODNUFF FOR RN 11:31 am Sunday November 3rd, 2024.)

2. Proposed Idea

Our solution is an assistive device that encourages and helps engineering students to build and be accountable to a routine.

//explains general def of assistive device

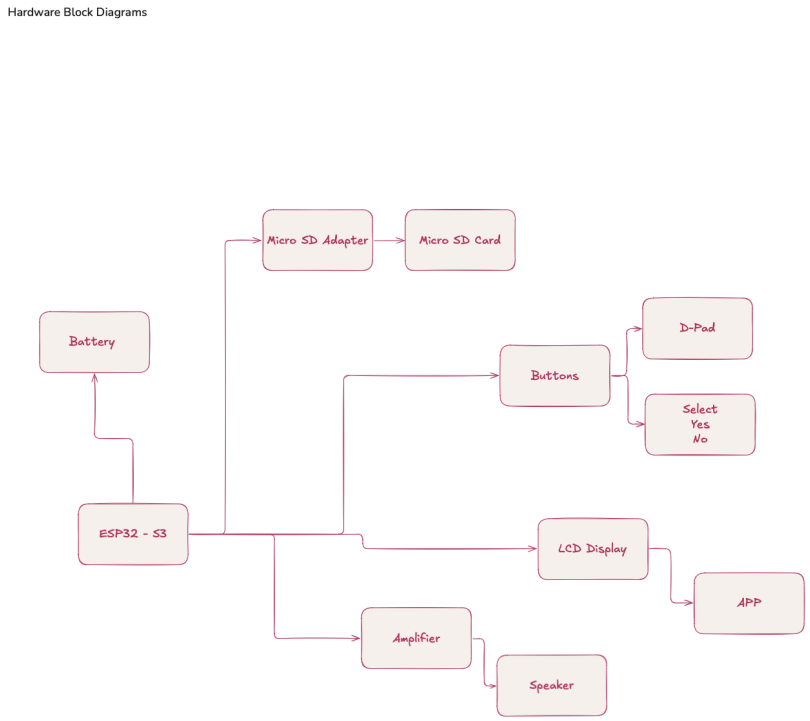
Assistive devices are external devices made to assist a person in performing a particular task. Many people with disabilities depend on assistive devices to enable them to carry out daily activities and participate actively and productively in community life.

Our device enforces the creation of a routine through organization and simplification of scheduling. The device is built on top of the ESP32 S3 DevBoard, which is made in class, and interfaces with several peripherals and an iPhone. The peripherals include a screen, directional pad, and three push buttons. A micro SD card is also required to hold the software and user information.

// don't know if necessary but explains more on what the device does

We will display the individual's daily tasks on the task screen, where they will have different interactive features such as completing, canceling or rearranging tasks. The device will also have a notification system that will remind the user “~X” minutes before their upcoming task; this ensures that the user will be able to follow through with their designed schedule.

Hardware block diagram:



Flowchart for UX:

DONE SEE EXCALIDRAW

https://excalidraw.com/#room=d5b2ef45e2ee62f96f25,mt3_PStLTJ_g79ltTAvUiQ

3. **Testable Hypothesis**

Video

The problem statement Voice Over

- Morning Scene:
    - Show the device displaying the **reminder notification** feature for a task that is approaching
- Day Time Scene:
    - Show the feature of the **focus page**
        - Eating Lunch (Melissa - cooking/eating)
        - Gym time (Giselle - doing a *massive* PR)
        - Studying (Dustin - dying under the stress of EE hw)
- Night Time Scene:
    - Interacting with task page (shows possible things that can be done when selecting a task but our vid **shows skipping task**)

Our video will show how our device assists busy engineering students by helping them create an organized routine. The device ensures and motivates them to complete various tasks throughout the day.

~~GOING TO GET FOOD SCENE~~

4. **Milestones**

Hardware milestones:

- Week 6:
    - PCB (Nov 4: 4pm)
        - Finalize schematic (Nov 3: EOD)
        - Place components on PCB (Nov 3: EOD)
        - Get PCB & Schematic signed off (Nov 4: 6pm)
        - Peer reviews of PCB (Nov 4: 5pm)
            - Two reviews of other teams
            - One review of our schem./PCB
        - Verify Final Parts list (Nov 4)
        - TA Evaluation form (Nov 4: 6pm)
        - Receive printed PCB (TBD)
    - Get our parts (TBD week 6?)
        - Assemble breadboard (TBD Week 6/7)
- Week 7:
- Week 8:
- Week 9:
    - Get PCB ??? (TBD)
        - Attach our parts to PCB(TBD)
- Week 10:

Firmware milestones:

- Week 6:
    - N/A
- Week 7:
    -
- Week 8:
    -
- Week 9:
    -
- Week 10:

CAD milestones:

- Week 6:
    - Brainstorm ideas of what we want our design to look like
- Week 7:
    - Take measurements of the components
- Week 8:
    - CAD design of our enclosure (Nov 18)
    - Print our enclosure (Nov 20)
- Week 9:
    - Assemble our device with the parts of our hardware(TBD)
- Week 10:

Website milestones:

- Week 6:
    - Turn in outline of website with problem definition, proposed idea, testable hypothesis, and milestones (Nov. 4)
- Week 7:
- Week 8:
    - Include the general problem/problem description, one type of flow chart or diagram-like visual aid and team section (like a meet the team page) (Nov. 18)
    -
- Week 9:
- Week 10:

Poster milestones:

- Week 6:
    - Template layout (google slide general boxed layout) (Nov. 4)
- Week 7:
- Week 8:
    - Problem and additional content (Nov. 18)
- Week 9:
- Week 10:

Video milestones:

- Week 6:
    - Brainstormed ideas, identify (free) editing software (Nov. 4)

- Week 7:
- Week 8:
    - Create a storyboard/ outline of you video (Nov. 18)
- Week 9:
- Week 10: