DO YOU REMEMBER WHAT YOU ATE YESTERDAY?

ARE YOU SOMETIMES SUPER CLUMSY?

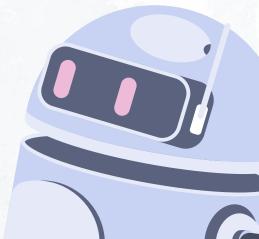
DO YOU STRUGGLE WITH ANALYTICAL THINKING/LANGUAGE RECOGNITION?

INTRODUCING...

MINDSET.







GROUP 4 PROJECT

TABLE OF CONTENTS

- 01 The Target Problem
- 02 --- Solutions to the Problem on the Market
- 03 --- Our Solution
- 04 ---- Related Sciences

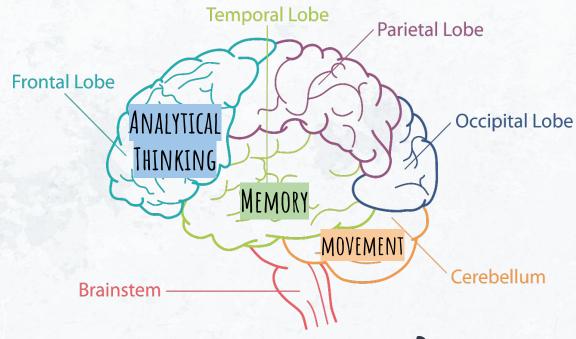
 $05 \longrightarrow The Process$

06 → Test Results

07 — Other information/Reasons to buy

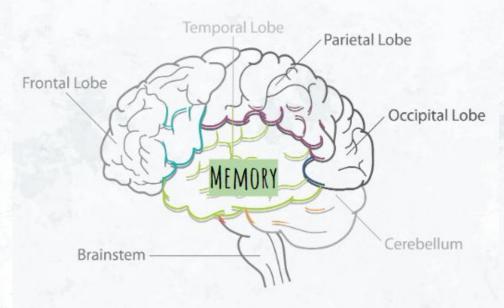
THE TARGET PROBLEM

THIS IS YOUR BRAIN... IT'S RESPONSIBLE FOR:



BUT, IT GETS TIRED ...

THE HIPPOCAMPUS - LOW MEMORY RETENTION



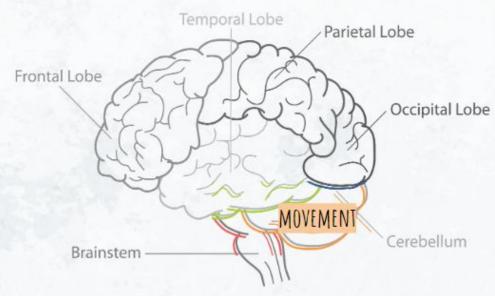
HIPPOCAMPUS TO-DO LIST:

- Process and retain info
- Sort info b/w facts (AKA acquired knowledge) & personal experiences

IMPROVE HIPPOCAMPAL FUNCTION:

- Light exercise increases BDNF
 levels = higher hippocampal volume
- Brain games increase performance and retention of memories

THE CEREBELLUM - WEAK COORDINATION



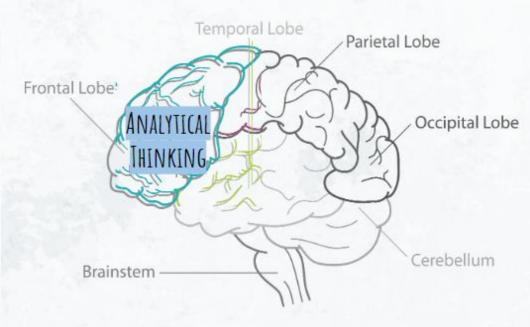
CEREBELLUM 10-DO LIST:

- Maintains balance, coordination, and vision

IMPROVE CEREBELLUM FUNCTION:

- Exercises that strengthen hand-eye coordination and fast movement increase optimal function

THE CEREBRUM - PROBLEM - SOLVING



CEREBRUM TO-DO LIST:

- Supports speech, hearing, and problem-solving skills

IMPROVE CEREBRUM FUNCTION:

- Puzzles force increased thinking capacity
- Brain games increase dopamine = greater concentration

PRESENT SOLUTIONS

WHAT'S OUT THERE AT THE MOMENT?

LUMINOSITY VS. ELEVATE

LUMINOSITY

- Improves brain function via adaptive games curated to the user's personal needs/improvement
- Uses mini games to evaluate users' abilities to improve areas such as problem solving, language skills and math

ELEVATE

- This app evaluates the users through the apps unique "Elevate Proficiency Quotient"
- Focuses on skills in specific subject areas such as math and language (i.e. reading, writing, speaking)

MAIN CONCERNS OF BOTH

- Cost
- Limited time to complete proposed activities
- Games are very test-based

OUR PRODUCT

mindset.

A FREE ALL IN ONE MOBILE APP, THAT IMPROVES OPTIMAL BRAIN FUNCTION, IN ALL THREE MAJOR AREAS OF THE BRAIN.

GAME DESCRIPTIONS

do you remember?	- The aim of this game is to improve the hippocampus' function
 Card matching: user's have 45 seconds to match a certain number of card pairs with the positions randomized with each round Contains different modes (easy = 20 pairs, medium = 30 pairs, hard = 40 pairs) 	 Memory cards help with recalling and problem solving, stimulating the hippocampus, improving short-term memory
dot, dot, dot	 Improves reaction time Shortens the time taken to coordinate the connection
 Precision - user's must try a click the dot as many times as possible in the given time window Contains different modes (easy = 45 s, medium = 30 s, hard = 15 s) 	between the brain and other parts of the body (in this case your eyes and hands)
 Word jumbles - users see different scrambled words with 45 seconds to unscramble as many of them as possible Improves speed of processing and understanding information Contains different modes (easy = 3 letters, medium = 4 letters, hard = 5 letters) 	 This game improves the speed of processing and understanding information Enhances language abilities (speaking, reading, writing, listening) as the cerebrum controls this ability
	card pairs with the positions randomized with each round - Contains different modes (easy = 20 pairs, medium = 30 pairs, hard = 40 pairs) dot, dot, dot - Precision - user's must try a click the dot as many times as possible in the given time window - Contains different modes (easy = 45 s, medium = 30 s, hard = 15 s) scrabble but easier - Word jumbles - users see different scrambled words with 45 seconds to unscramble as many of them as possible - Improves speed of processing and understanding information - Contains different modes (easy = 3 letters, medium = 4 letters, hard

RELAXATION ACTIVITIES DESCRIPTION

MEDITATION	 Users will be able to choose how long they want to breathe (1-5 minutes) with a function to choose between a easy and normal mode The easy mode is for those who have difficulty following the normal routine
Focus	- When using this function, a table of sound options will pop up - Users will be able to pick as many sounds to play at once for as long as they want - Sounds from nature are shown to have a positive effect on people - These sounds reduce the body's sympathetic response (fight or flight feeling)

PLANS FOR THE FUTURE & CURRENT LIMITATIONS

PROBLEMS	EVENTUAL FIX
- Currently there are not many options for the user to play with and may not appeal to everyone	- Implementing new games and activities will make <i>mindset</i> . more user-friendly and engaging
- Not fully functional (not all activities or games are usable)	- Given the time and resources, mindset. will grow to be a better app

CONNECTIONS TO SCIENCES

COURSE MATERIAL

Biology analyzing the parts of the brain and its functions

Computer creating the app's wireframe and programming Science

Chemistry understanding the release of chemicals such as serotonin to assist both brain growth and function

THE PROCESS

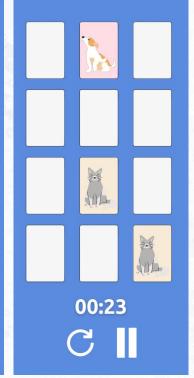
WIREFRAME





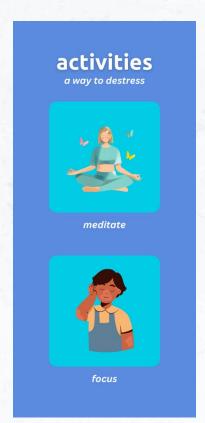






WIREFRAME







CODING

```
// Add the timer JLabel to the frame
mindsetApp.frame.add(timerLabel);
// Add the timer for game 1 - easy mode
easyTimerGame1();
// Add an ActionListener for the circle JButton
circleLabel.addActionListener(new ActionListener() {
    @Override
                                                            }, 0, 450);
    public void actionPerformed(ActionEvent e) {
        // Repaint the frame
        mindsetApp.frame.repaint();
        // Update the counter each time
        clickCounter += 1:
        // Display clicks counter
        totalClicks.setText("" + clickCounter);
        totalClicks.setBounds(270, 490, 120, 50);
        totalClicks.setFont(new Font("Cooper Black", Font.PLAIN, 20));
```

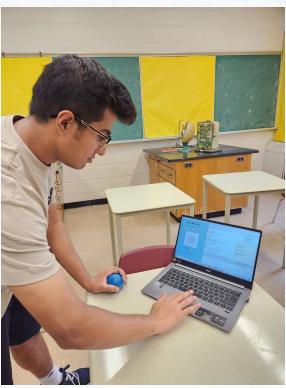
```
public static void easyTimerGame1() {
    Timer timer = new Timer();
    timer.schedule(new TimerTask() {
        int numberOfSeconds = 45; // set the number of seconds for the timer
        public void run() {
            timerLabel.setText("" + numberOfSeconds--); // set text of remaining seconds
           // Once the timer reaches 0, tell the user the game is over and
           // don't let them continue playing
           if (numberOfSeconds == 0) {
               mindsetApp.frame.remove(time);
               timerLabel.setText("game over!");
               timerLabel.setBounds(180, 530, 180, 50);
               circleLabel.setEnabled(false);
               timer.cancel(); // End the timer
} // End of easyTimerGame1() method
                                 From mindset. Game 1
```

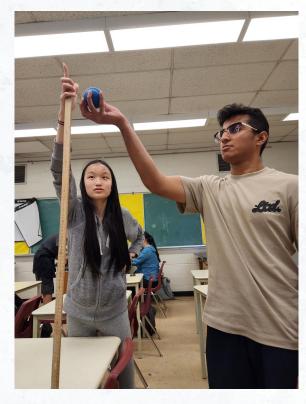
"dot, dot, dot..." - easy mode

TESTING METHODS/RESULTS

4 TRIALS (PICTURE PROCESS)







MOVEMENT/HAND-EYE COORDINATION

Table 1: The following table displays the heights at which 3 participants caught a ball falling from a metre-stick set on a school desk, before using *mindset*. and after using *mindset*. as well as the total number of clicks made on the game.

Height of metre-stick Measured height of school desk (± 0.05 cm)			100 cm 75 cm
1	25.5 cm	101	14 cm
2	37 cm	282	32 cm
3	30 cm	206	23 cm

2 MOVEMENT/HAND-EYE COORDINATION

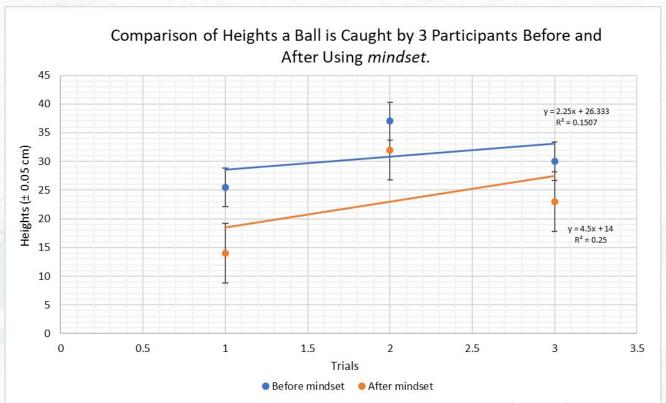


Fig 1. The following graph indicates the heights that 3 participants caught a ball from 175 cm (\pm 0.05 cm) before and after using mindset. The linear trendlines indicate that after using mindset, users managed to catch the ball at a shorter distance indicating greater concentration and coordination to catch the ball before the target of 30 cm (\pm 0.05 cm).

WHY YOU SHOULD BE A CUSTOMER

WHY MINDSET. IS SUPERIOR

MINDSET.	OTHER APPS
 FREE PORTABLE AND CONVENIENT FREQUENT UPDATES IMPROVE OVERALL BRAIN FUNCTION 	 SUBSCRIPTION MODELS REQUIRES TIME COMMITMENT OUTDATED PROGRAMS BASIC NAME

OUR REVIEWS

"After using mindset, I have become much better at solving problems and my grades have also improved"

"Playing this game everyday has improved my memory. It is a fun and engaging way to practice memorizing abilities. Since playing I no longer forget to take my meds"

"Since using mindset, I have improved my reaction time a lot"