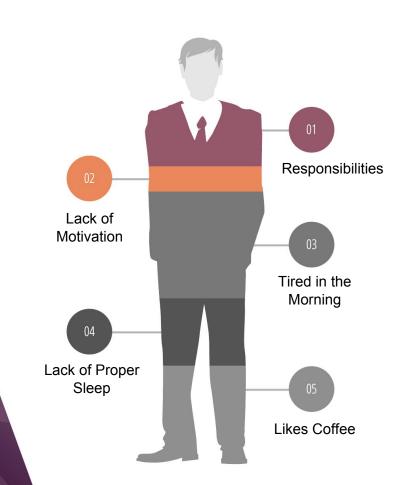
CoffeeTime

By Daniel & Shaun

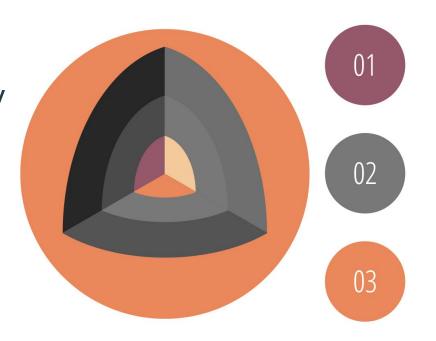
Scenario:
Powei Tsao, a busy
student, has trouble
getting up in the morning.

User Profile



Our Problem Statement

Students who lack the motivation to physically get out of bed need an external stimulus so that they can meet their responsibilities.



Our Solution







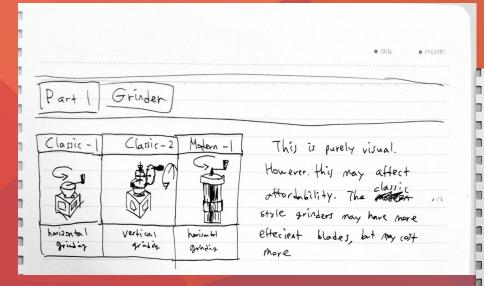
Demonstration

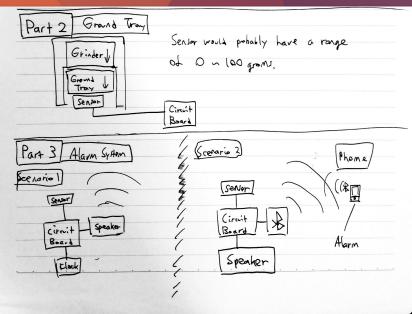
Our Process

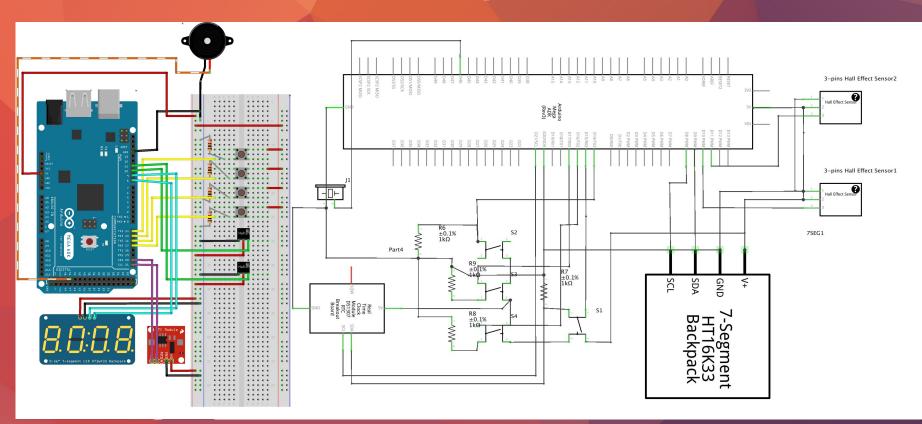
Research

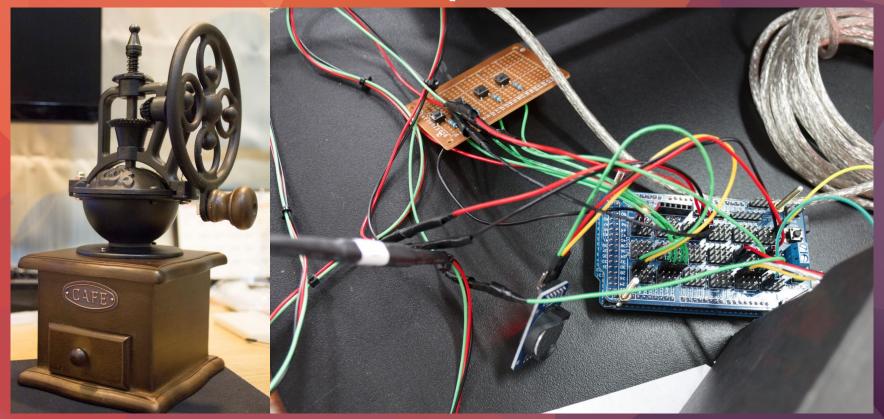
Others vs Our Product

Prototyping









```
else if(set == 2){
  if(pin15 == HIGH){
   a += 1;
   if((a%100) >= 60){
     a += 40:
    //display.showNumberDec(a, true);
  else if(pin16 == HIGH){
    a -= 1:
   if((a%100) >= 60){
      a -= 40;
   //display.showNumberDec(a, true);
  display.showNumberDec(a, true);
else if(set == 0){
  DateTime now = rtc.now():
  t = now.hour() * 100 + now.minute();
  display.showNumberDec(t, true);
  if (a == t){
   // Set up a counter to pull from melody[] and beats[]
   for (int i=0; i<MAX_COUNT; i++) {</pre>
     tone = melody[i];
      beat = beats[i]:
```

```
void loop() {
 pin10 = digitalRead(sensor1), pin11 = digi
 if(pin14 == HIGH){
   if(set == 1){
     set = 2;
   else if(set == 2){
     set = 0:
   else if(set == 0){
     set = 1;
 else if(pin14 == LOW){
   if(set == 1){
     if(pin15 == HIGH){
       a += 100;
       if(a >= 2500){
         a = 2400;
       //display.showNumberDec(a, true);
     else if(pin16 == HIGH){
       a -= 100:
       if(a < 100){
         a += 2400;
```

```
else if(set == 0){
  DateTime now = rtc.now();
  t = now.hour() * 100 + now.minute();
  display.showNumberDec(t, true);
 if (a == t){
    // Set up a counter to pull from melody[] and beats[]
    for (int i=0; i<MAX_COUNT; i++) {</pre>
     tone_ = melody[i];
     beat = beats[i];
     duration = beat * tempo; // Set up timing
      playTone();
     // A pause between notes...
     delayMicroseconds(pause);
```



Future Plans

Ask Us Anything