Design Ideation

Generate Ideas

SPIN FEATURE	PORTABLE SHADE- USES TEMPERATURE/HUMIDITY	FIRE DETECTION SYSTEM THAT USES TEMPERATURE AND HUMIDITY TO DETERMINE IF A FIRE IS LIKELY	WIND SPEED THAT DETERMINES THAT SPEED OF A SPIN CYCLE
VENTILATION SYSTEM THAT USES TEMPERATURE AND ATMOSPHERIC TEMPERATURE	WiFi INTEGRATION	DEVICE THAT USES ATMOSPHERIC PRESSURE TO DETERMINE ALTITUDE	ABILITY TO USE ANY COLOR FOR LEDs
GREEN HOUSE THAT USES TEMPERATURE AND HUMIDITY FOR PLANTS	LIGHTS THAT CHANGE COLOR BASED ON SPEED OF MOTOR	FEATURE THAT DETERMINES WHEN DEVICE SHOULD SHUT OFF BASED ON OVERHEATING	FEATURE THAT USES TEMPERATURE AS A THERMOSTAT
FEATURE THAT USES TEMPERATURE TO FIND PEOPLE	FEATURE THAT NOTIFIES YOU TO DRINK MORE WATER BASED ON TEMPERATURE/HUMIDITY	FEATURE THAT ALERTS USER OF SUDDEN ATMOSPHERIC PRESSURE CHANGES	FEATURE THAT COOLS DOWN USER
FUNCTION TO KEEP USER WARM	DEVICE THAT USES HUMIDITY AND TEMPERATURE TO DETERMINE POSSIBLE WEATHER	DEHUMIDIFIER CHECKS HUMIDITY IN HOUSE AND TEMPERATURE	ATMOSPHERIC PRESSURE INDICATOR
HYDROPOWER	FRIDGE	HUMIDITY CONTROLLER	FAN CONTROLLER
SOLAR ENERGY	AUTOMATIC SHUT OFF (PREVENT OVER HEATING)	UMBRELLA	LUNCH BOX THAT DETERMINES CORRECT TEMPERATURE FOOD NEEDS TO BE STORED
DRIP PROTECTION	CARRY AND LUGGAGE HANDLE	ADJUSTABLE AMBIENT LIGHTING	CUSTOMIZABLE
DUAL-USE(HEATING AND COOLING)	COLOR OPTIONS	DUST RESISTANCE	NIGHT LIGHT FEATURE

ADJUSTABLE PEDESTAL	AIR QUALITY SENSORS	HUMIDITY CONTROL	DISPLAY HUMIDITY LEVELS
MISTING FUNCTION	DISPLAY WIND SPEED	TOUCH CONTROLS	ADJUSTABLE THERMOSTAT
AIR FILTRATION SYSTEM	DISPLAYS TEMPERATURE	HUMIDIFICATION FEATURE	PORTABLE
AUTOMATIC RESTART	WIND MODE SIMULATION	PROGRAMMABLE SCHEDULE	CHILD LOCK FEATURE
JACKET THAT KEEPS YOU WARM	A/C	TEMPERATURE ACTIVATED SPRINKLER	TEMPERATURE CONTROLLED FAN
LED INDICATING TEMPERATURE (RED = HOT/ BLUE = COLD)	SMART BLINDS	TEMPERATURE CONTROLLED	SMART TECHNOLOGY
MECHANICAL VARIETY	EASY TO MODIFY	SWITCH DIAL	AESTHETICALLY PLEASING
TEMPERATURE ACTIVATED	TIMER SETTING SET ON AND OFF	STURDY CONSTRUCTIONS	MORE THAN ONE SPEED
COMES WITH A REMOTE CONTROL	COMES WITH BLUETOOTH	USER-FRIENDLY	READS TEMPERATURE
THERMOSTATICALLY CONTROLLED	AIRFLOW CAPACITY	ADJUSTABLE SPEED SETTINGS	EASY-TO CLEAN FEATURES

SAFETY FEATURES	PORTABILITY	TIMER FUNCTION	AIR PURIFICATION
ADJUSTABLE HEIGHT	SLEEP MODE	ADJUSTABLE TILT	MOTORISED EQUIPMENT

Sort, Rank, and Group Design Concepts

Idea 1:

TEMPERATURE CONTROLLED FAN	PORTABLE	MOTORISED EQUIPMENT	SWITCH DIAL
ADJUSTABLE AMBIENT LIGHTING	FEATURE THAT COOLS DOWN USER	DISPLAYS TEMPERATURE	COMES WITH A REMOTE CONTROL
MECHANICAL VARIETY	WiFi INTEGRATION		

Idea 2:

SMART BLINDS	THERMOSTATICALLY CONTROLLED	READS TEMPERATURE	MOTORISED EQUIPMENT
TEMPERATURE ACTIVATED	WiFi INTEGRATION		

Idea 3:

| WiFi INTEGRATION	MISTING FUNCTION	TEMPERATURE ACTIVATED SPRINKLER	DISPLAY HUMIDITY LEVELS
MOTORISED EQUIPMENT	AUTOMATIC SHUT OFF (PREVENT OVER HEATING)		

Create three product concept sketches

Product 1:

It consists of blades attached to a central hub, which, when powered by a motor, rotates to move air. It has adjustable speed settings, allowing users to control the intensity of the airflow. Additional features include oscillation, where the entire unit or head can move from side to side for even air distribution, a tilt function for adjusting the angle of the fan head, and a remote control for convenient operation.
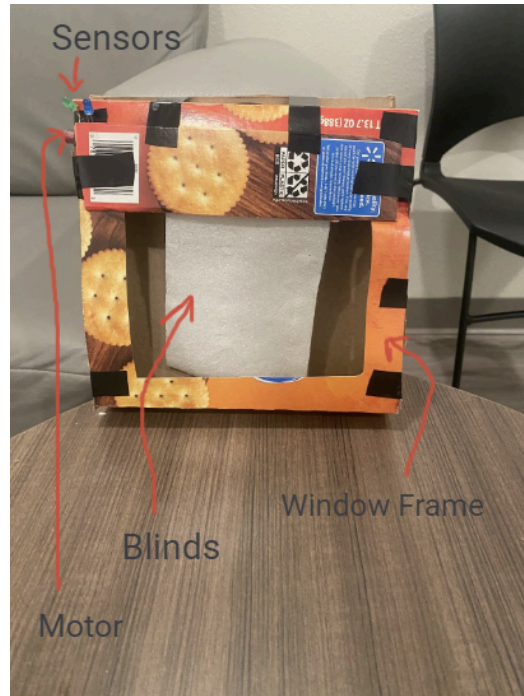

switches for occultation and ON/OFF
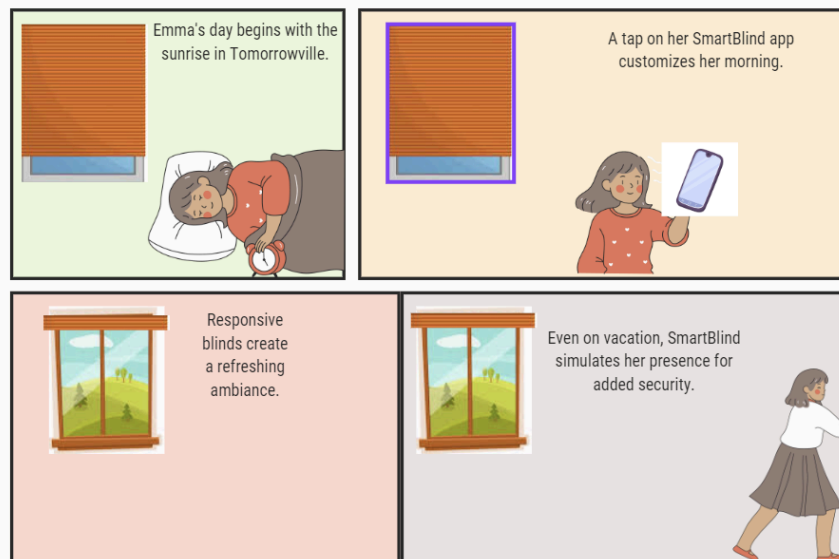
4 blades that turn and twist
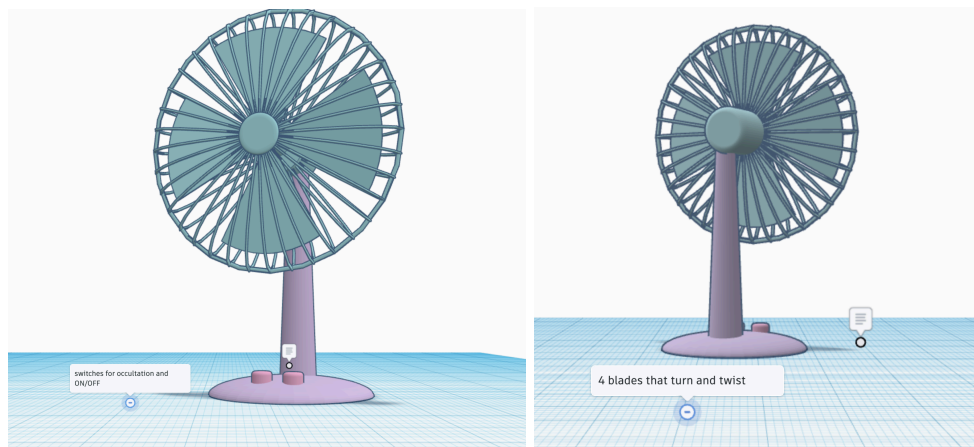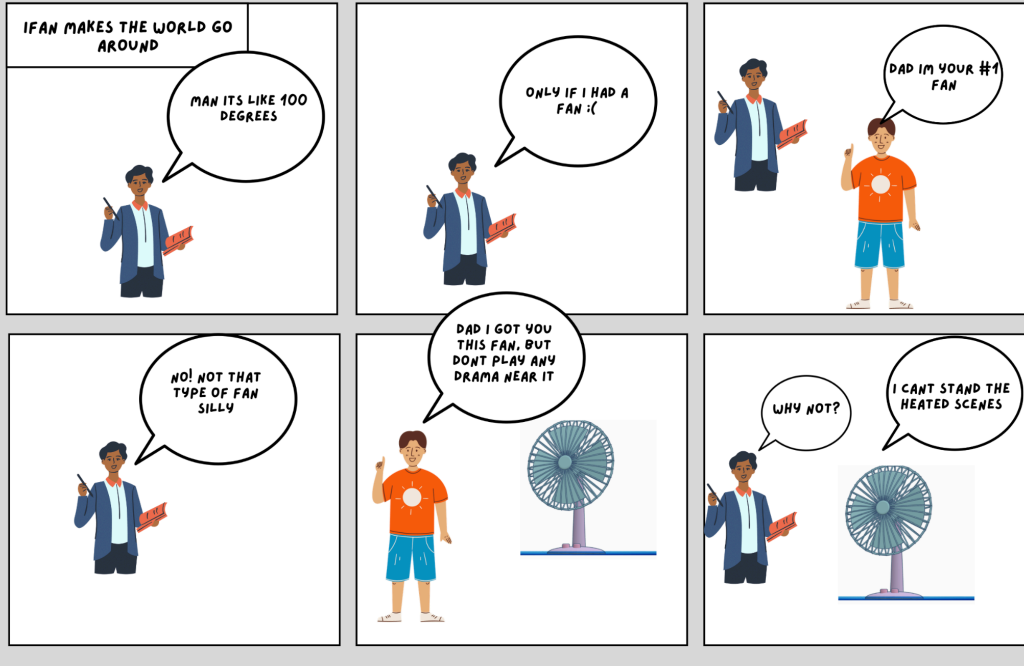
Product 2:

For our second product we decided on a self-closing-blind, using a temperature sensor and a Humidity temperature sensor, with the temperature sensor whenever it is hot outside (user settings temp) the blinds would go down and whenever the temperature is cool (user setting temp) the blind would go up. Basically a device set at the top corner of a window, a motor controlled by the sensor and the Wi-Fi feature allowing the user to open or close blinds.

Sensors

Window Frame

Blinds

Motor

S-BLIND

Emma's day begins with the sunrise in Tomorrowville.

A tap on her SmartBlind app customizes her morning.

Responsive blinds create a refreshing ambiance.

Even on vacation, SmartBlind simulates her presence for added security.

Product 3:

For our final product we decided on the Smart-Sprinkler, equipped with a motor, temperature sensor, humidity sensor, and Wi-Fi control, making gardening by enabling precise watering schedules based on real-time weather conditions, convenient smartphone management, and promoting water conservation. The temperature sensor and the humidity sensor work together

to determine when it would be most effective to water any plants. The Wi-Fi control allows for the user to have full control over the sprinkler, if for some reason they decide that they should not water their plants that day or if the sprinkler should only be facing one direction.
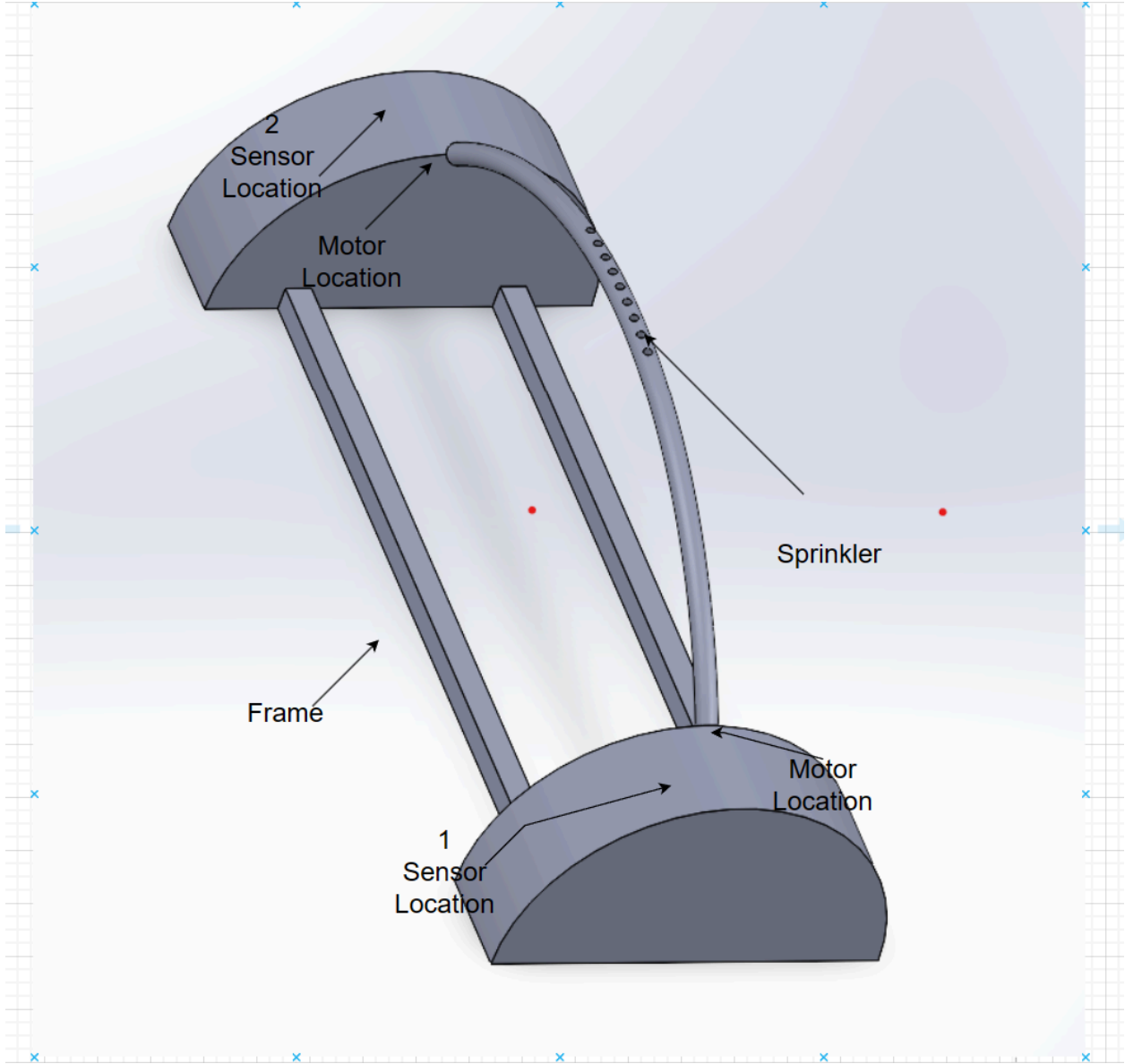
Do you get tired of watering your plants everyday?

Or tired of activating your sprinkler everyday?

Do you ever wish it were much easier?

Get your Smart-Sprinkler today!

The Smart-Sprinkler decides when it is best to activate based on temperature and humidity levels!

You can easily activate/deactivate it just with the use of your phone!

You can also pick different settings based on how you want your sprinkler to be used, all in your phone!