PROJECT DESIGN PHASE II

Functional Requirements

Date	15 September 2022
Team ID	PNT2022TMID07810
Project Name	Project Design Phase -2 Functional
	Requirements
Maximum Marks	4 Marks

Sensors:

*Purpose:

*Capture Motion movement and relay the information to device B(Clip)

*Parts:

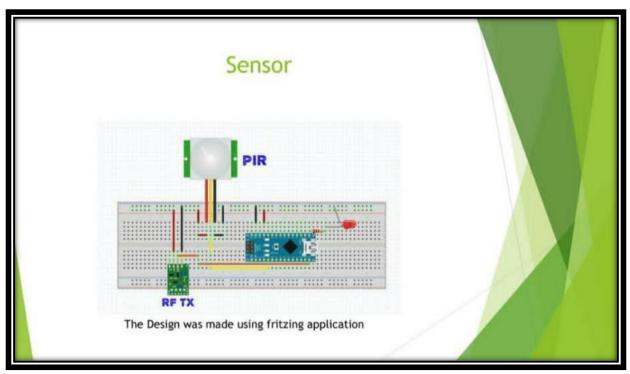
*Arduino Nano:

*We need the device to be light and convenient for use.

*PIR motion sensor (Passive Infared):

*Detects the motions and send the signal to the RF transmitter.

*RF Transmitter:



Receives the signal from the PIR Sensor and sends it to the clip device.

^{*}Clip (Wearable Device)

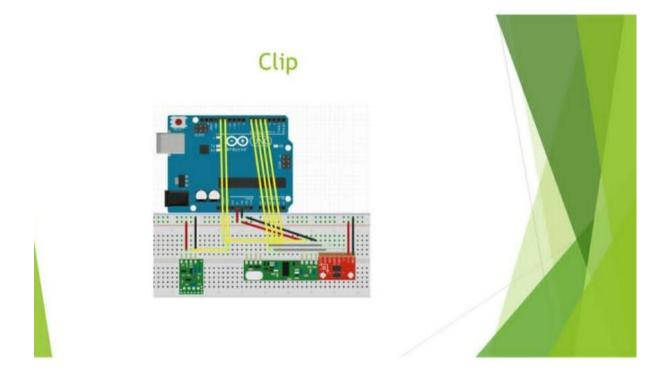
^{*}PURPOSE:

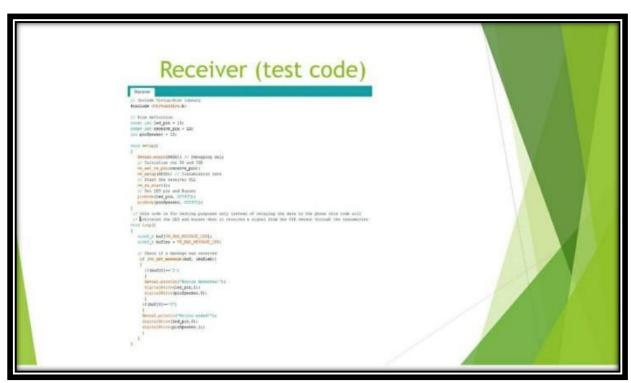
*RECEIVE THE MOTION SIGNAL

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Sensor (test code)

Topical Company of the sensor of test code of
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- *READ INPUT FROM ACCELEROMETER
- *RELAYS SOUND TO DEVICE C (ROUTER)
- *ARDUINO UNO:
 - * NEEDED TO USE THE ACCELEROMETER SHEILD
- *RF RECEIVER:
 - *RECEIVE THE SIGNAL FROM THE MOTION SENSOR
- *ACCELEROMETER:
 - *CAPTURE SHACKING MOVEMENTS.





*ROUTER:

*PURPOSE:

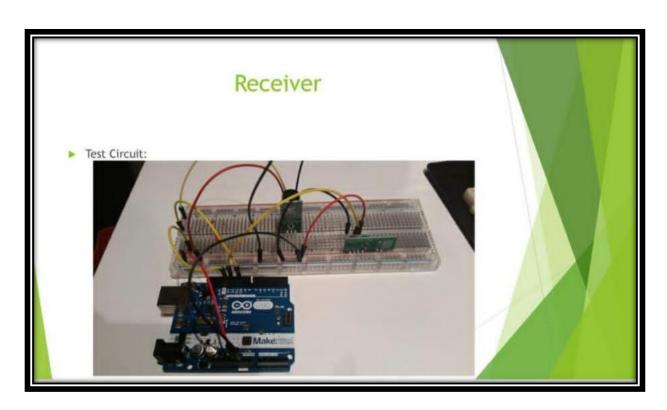
* RELAY INFORMATION BETWEEN THE PHONE SOFTWARE AND THE CLIP DEVICE.WE WAS NEEDED BECAUSE THE WIFI SHIELD.

*ARDUINO UNO+WI-FI SHEILD:

*TO ESTABLISH WIRELESS CONNECTION WITH THE PAIRED PHONE DEVICE.

* RF TRANSMITTER:

* TRANSMIT SIGNALS FROM AND TO THE CLIP DEVICE.



	Progress Planning	
	Progress report	1
Week of	Planned	
31 Aug	Tried RF tags with card reader	
7 Sept	Scrapped Idea	
14 Sept	Came up with new design and added more functions	
21 Sept	Complete Accelerometer and sound detector	\
28 Sept	Test wireless transceiver and decide if we want to use the Wi-Fi shield	
5 October	Design the phone application	
12 October	Test individual parts and them paired together	
19 October	Assemble device for final packaging	
26 October	Design the cases	
2 November	Final packaging complete	
9 November	Work on the video	A 18