SenzerRoom Monitor (Working Title)

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# Declaration of Joint Authorship

# Approved Proposal

# Abstract

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# List of Illustrations

# Introduction

## The Technical Issue/Problem

## Why Solve It?

## Scope

## Objective

## Requirements Specifications

### Hardware

The project requires the following hardware components;

* 1 Raspberry Pi 3
* 1 8GB or higher micro SD card
* Micro USB power cable for use with Raspberry Pi 3
* 1 PCF8591 breakout board – Kogul Balasubramaniam
* 1 BME280 breakout board – Samuel Dadet
* 1 AMG8833 breakout board – Kyele Haynes
* PCB materials for connections
* 3D printed enclosure
* A smartphone running Android Kit-Kat or higher
* Wall mounting materials

### Software

The project requires the following software;

* Most recent version of Android Studio
* Raspbian (to be installed on Raspberry Pi 3)
* Custom built android application to interact with the system
* A database capable of holding records every 5 minutes, 24/7 for up to 1 month

## Interesting Issue Discoveries

## Unique Approaches

# Body

## Work Breakdown

### Database

The database will be designed, created, and maintained by Kyele and Kogul.

### Application

The android application will be mainly developed by Kogul and Sam.

### Hardware

The hardware aspect such as design, physical connections and enclosure will be handled by Kyele. The firmware/OS on the development platform (Raspberry Pi 3) will be more of a joint effort. Each team member is responsible for retrieving the data from their sensor (defined in requirements specifications).

# Conclusion

# Recommendations

# Bibliography

# Appendices