



# ROBAN SYSTEMS

AN HELPING HAND FOR DISABLED PEOPLE



6/12/2023

1

## Our team



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- # Introduction

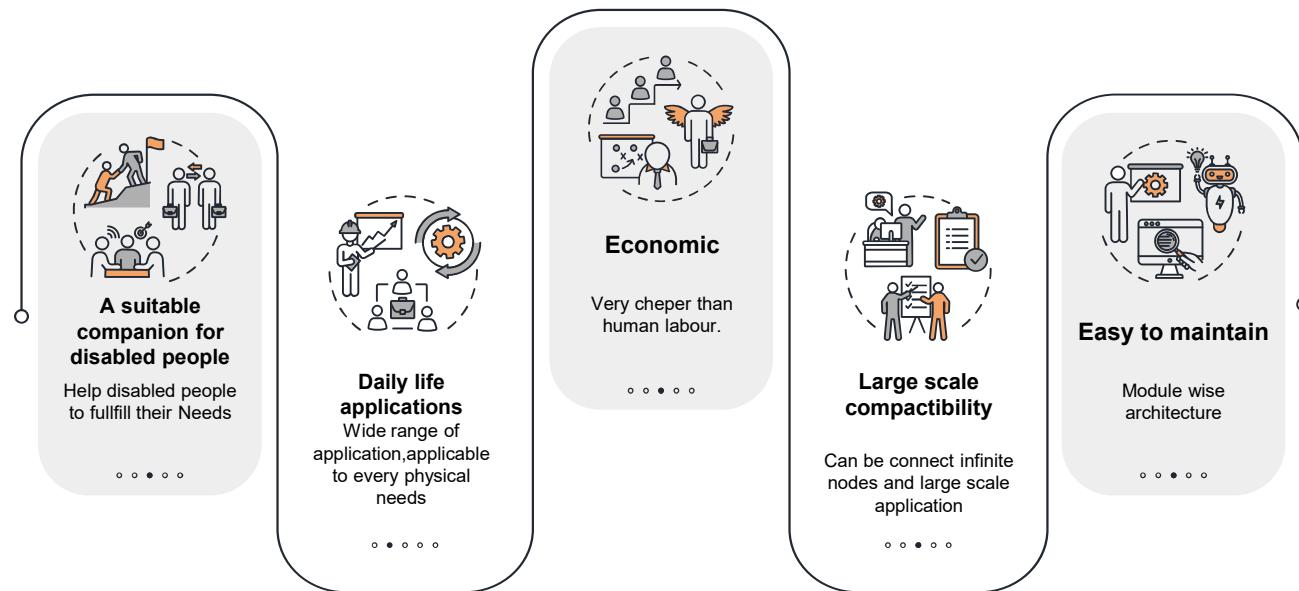
Roban system is the way of setting up  
an Economic Environment to Help The Disabled people with help of  
modern IOT Technology.

All human needs can be fulfilled using Roban System

we use C++, modern IOT architecture and MQTT protocols to full fill the  
Roban System

it is more Economical than human labour

## 2. Formulation Of Objectives



## 2. Project planning



### Phase 1

Selecting topic, Conveying Idea,



### Phase 2

First review, literature Survey



### Phase 3

Making schematic, coding,  
Implementation



### Phase 4

Documentation, Testing, Prototype,  
Presentation

### 3. Task Identification And Allocation



**Ajay Das k**

Overall h/w

Overall connecting  
the modules and  
hardwares

**Rabeeh C**

Fullfill needs

Fullfilling the basic  
needs. Providing  
support to patients.

**Fathima Irfana T P**

Security

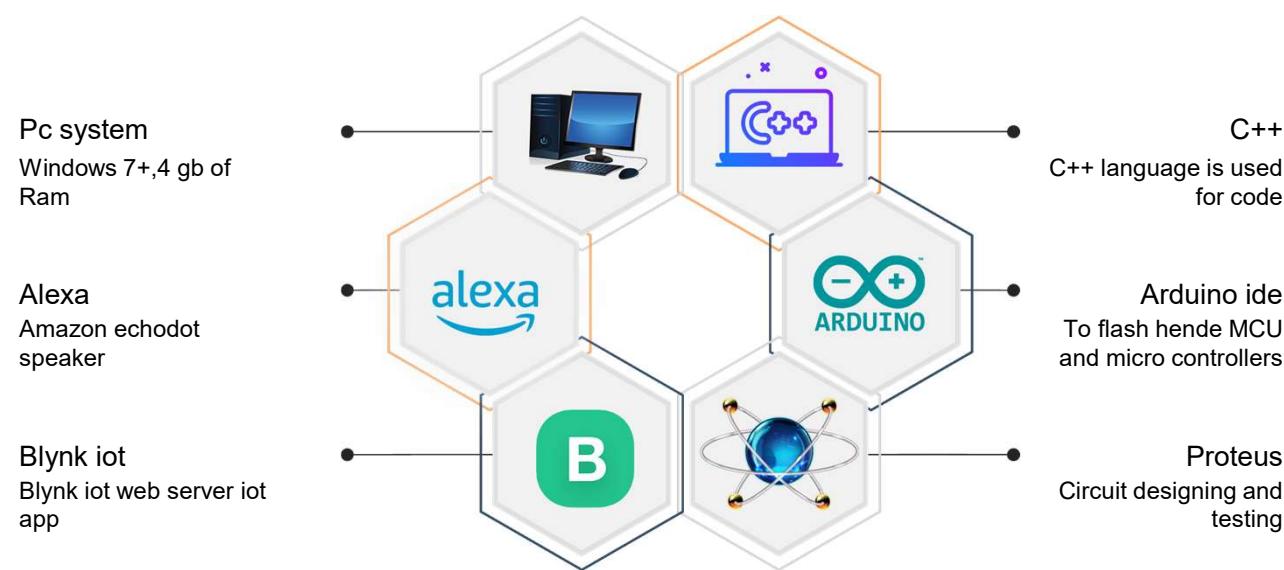
Security and  
surveillance to the  
patient and  
surrounding.

**Muhammed Fais M T**

Voice control

Controlling all  
physical objects  
using commands  
and gestures.

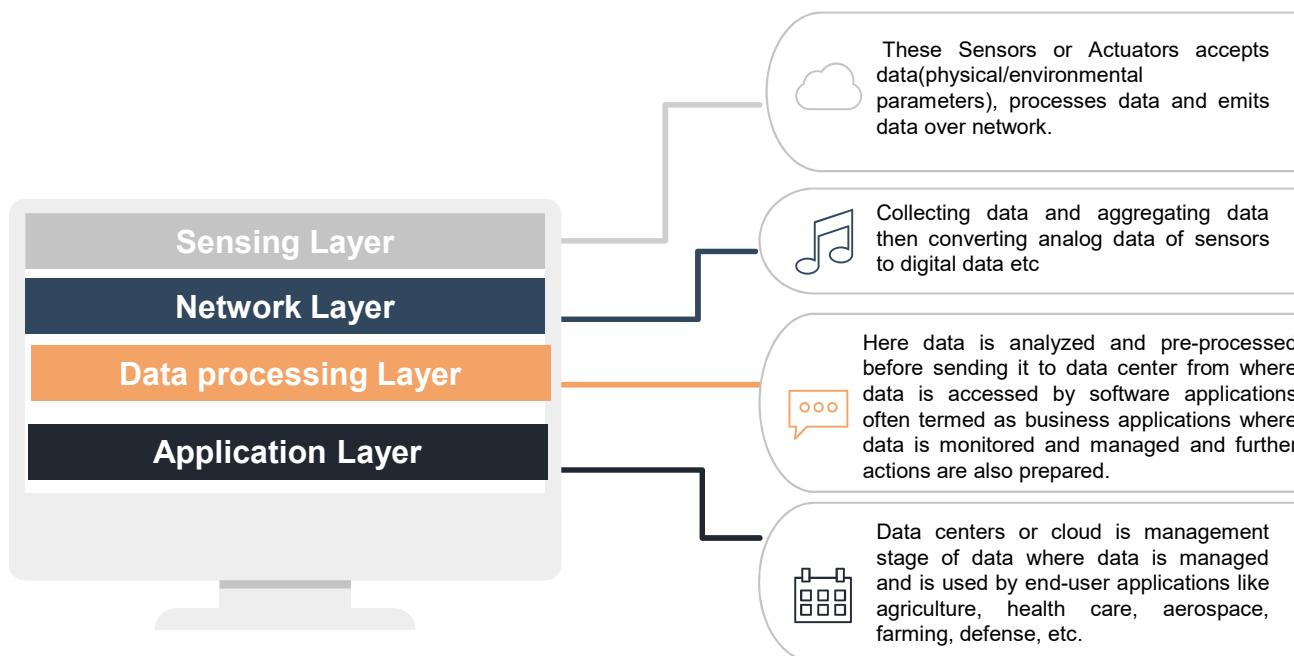
## 4. Requirements



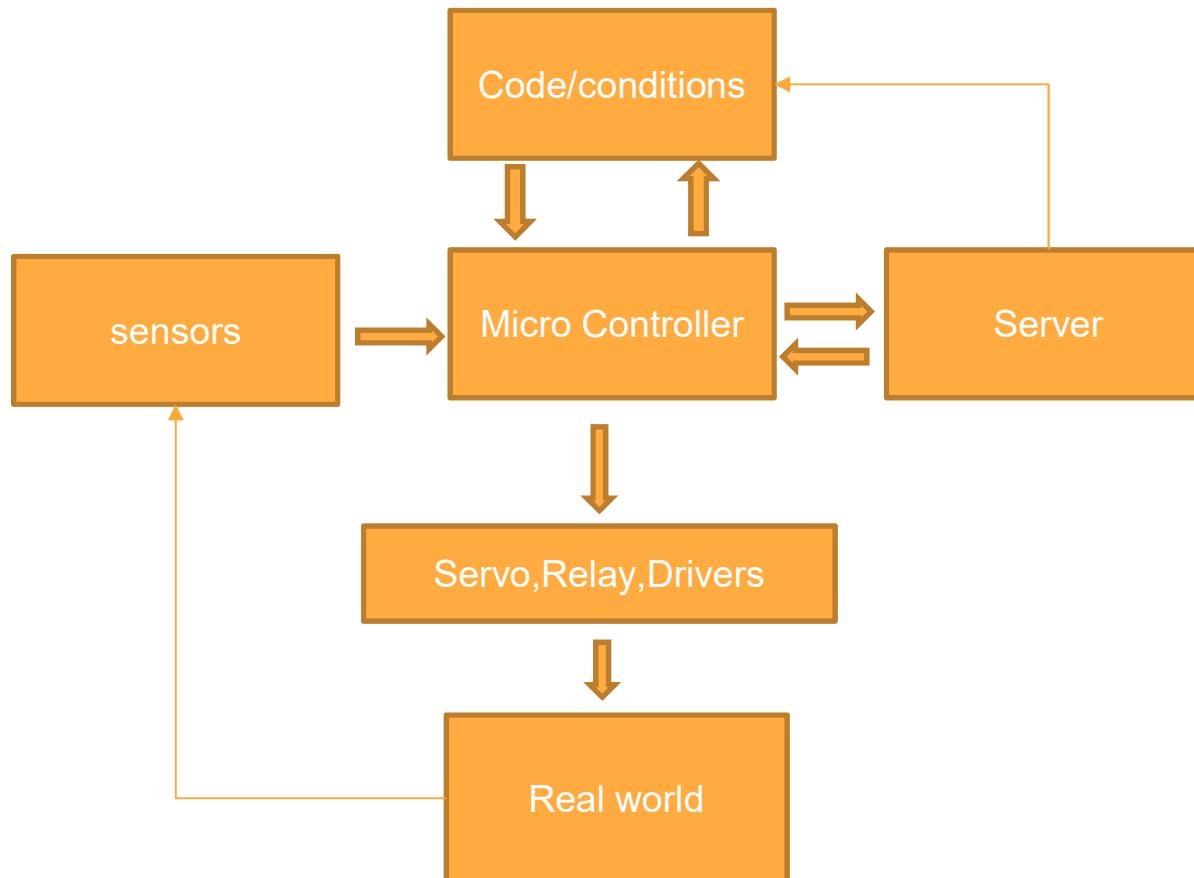
## 4. Requirements



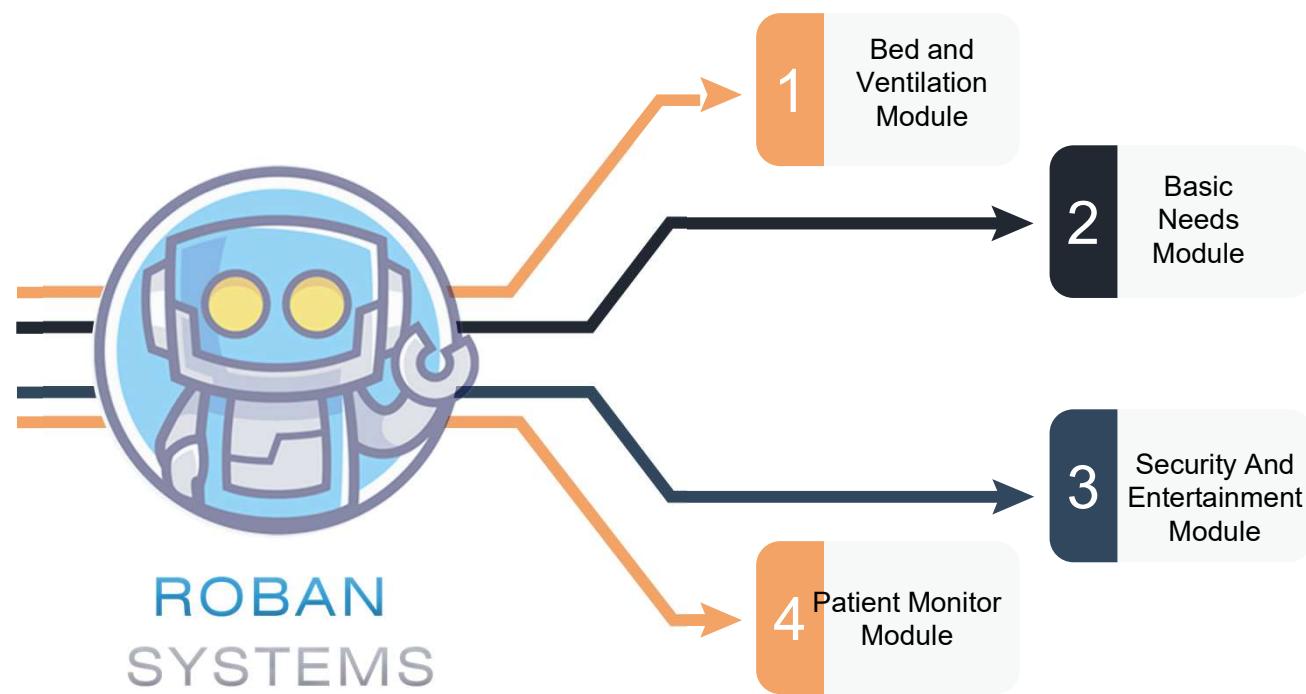
## 5. Architecture of Internet of Things (IoT)



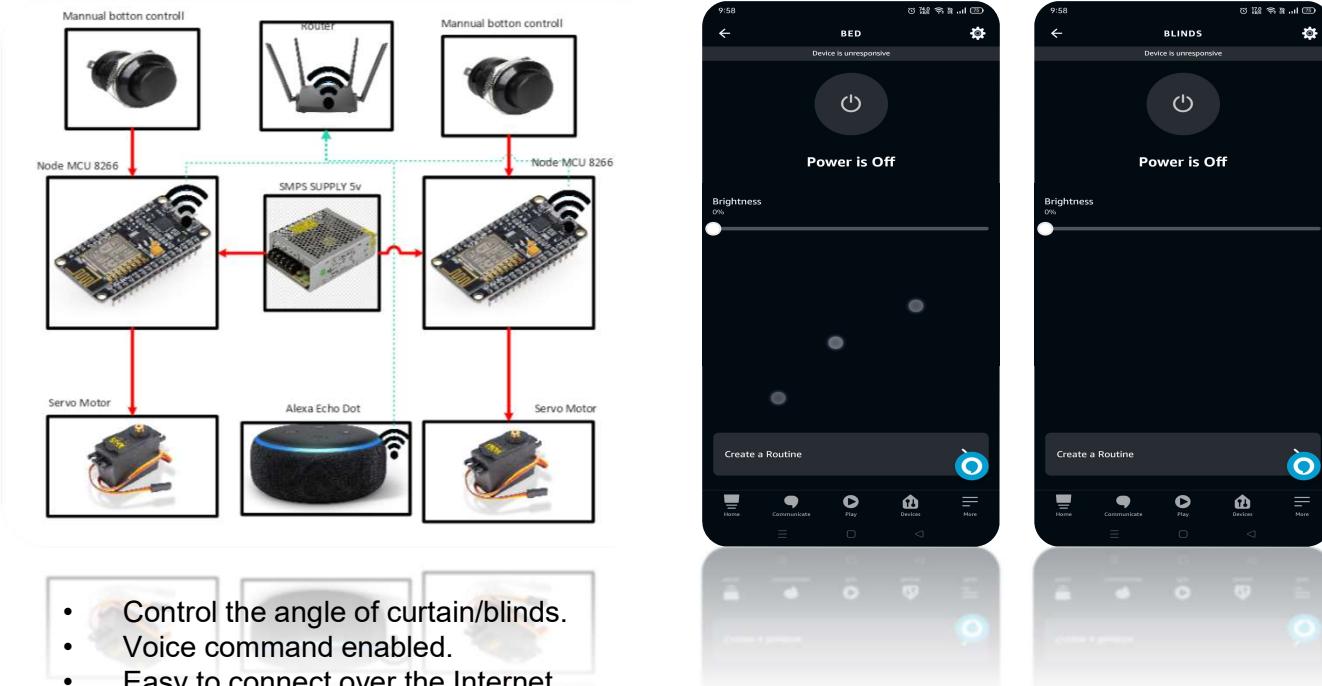
## 6. Formulation of Design



## 7. Modules

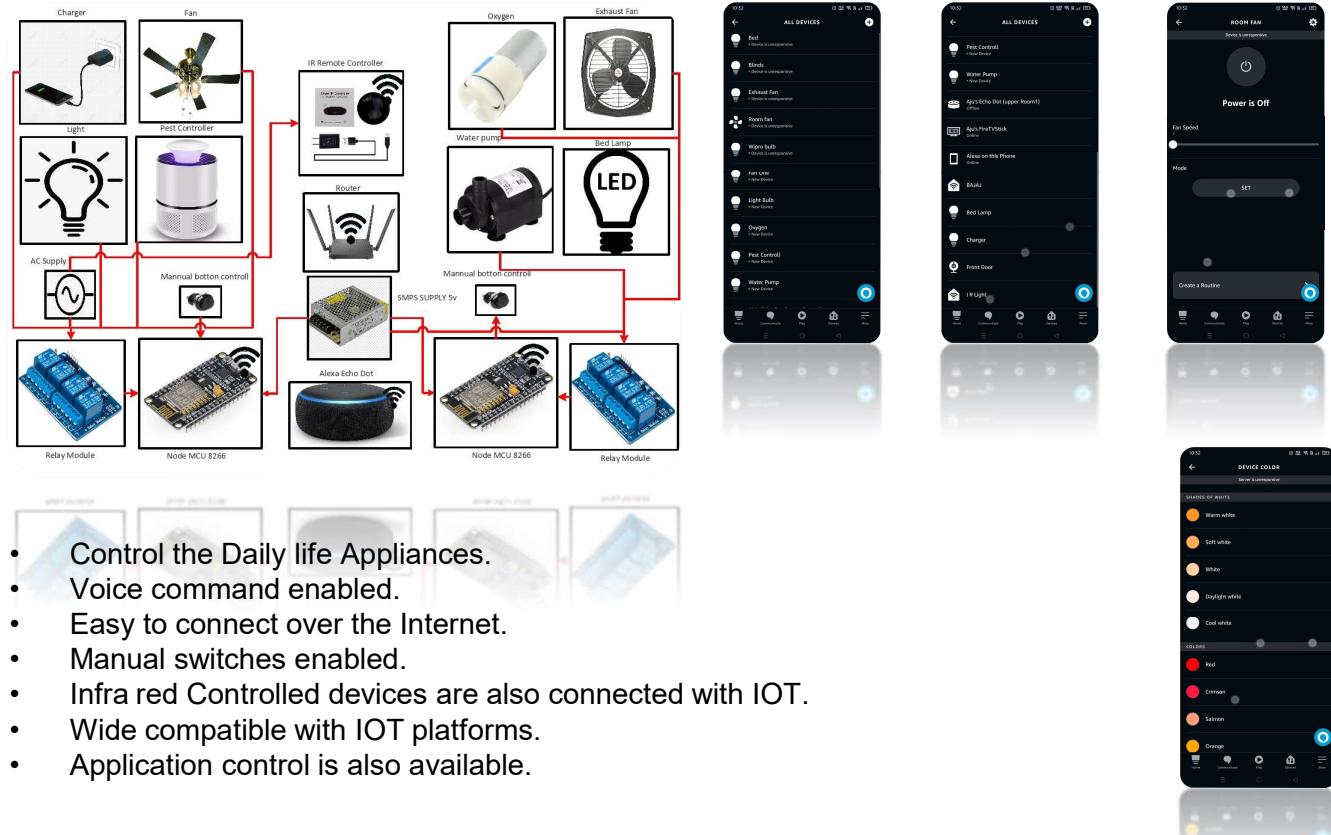


## 1.Bed And Ventilation Module



- Control the angle of curtain/blinds.
- Voice command enabled.
- Easy to connect over the Internet.
- Manual switches enabled.
- Wide compatible with IOT platforms.
- Application control is also available.

## 2. Basic Needs Module



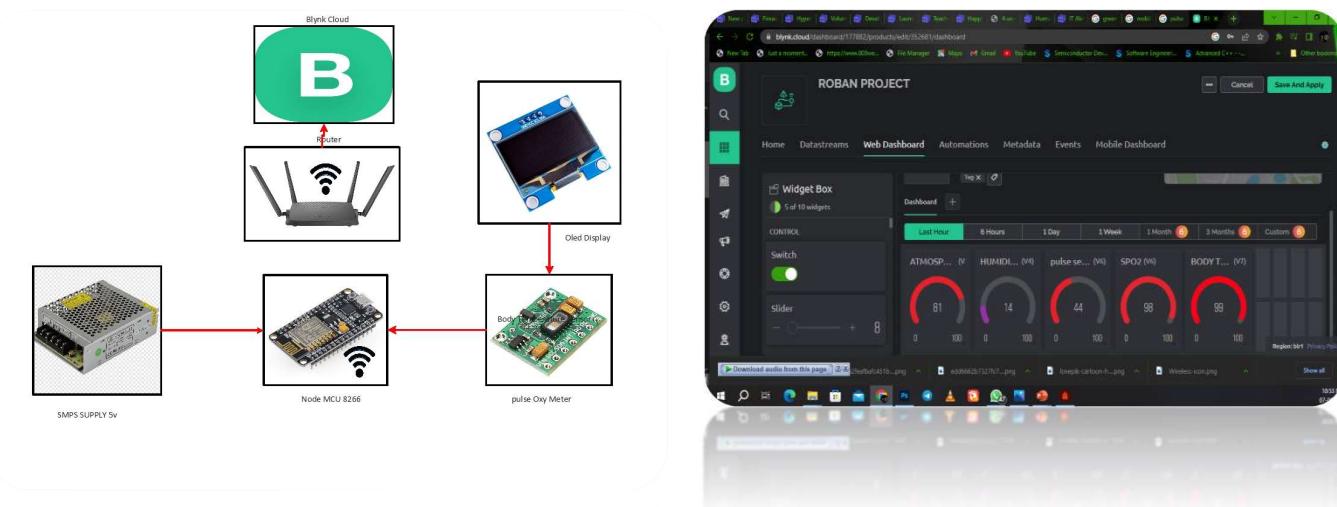
### 3. Security And Entertainment Module



- Control the Daily life Appliances.
- Voice command enabled.
- Easy to connect over the Internet.
- Entertainment And Monitor the premises.
- Wide compatible with IOT platforms.
- Remote Control Available.
- Multiple Platforms.



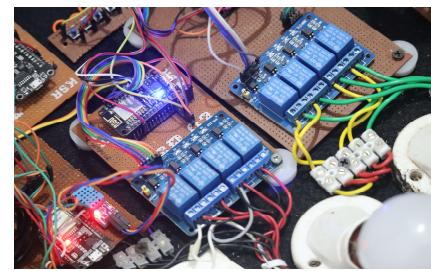
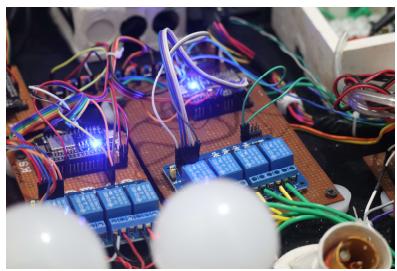
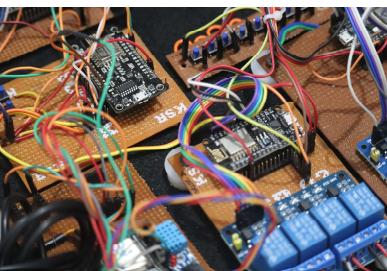
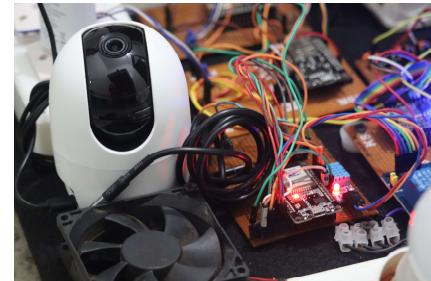
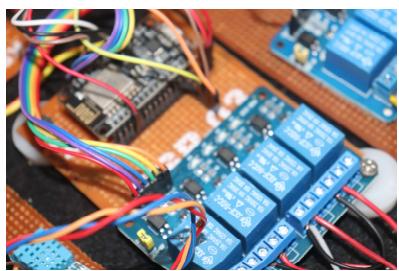
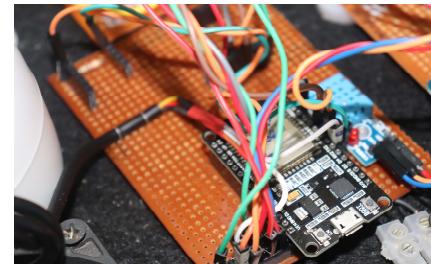
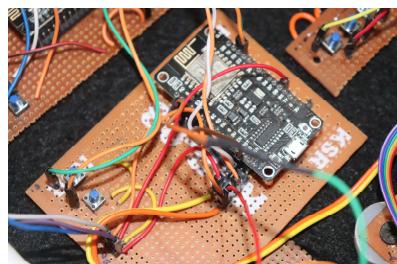
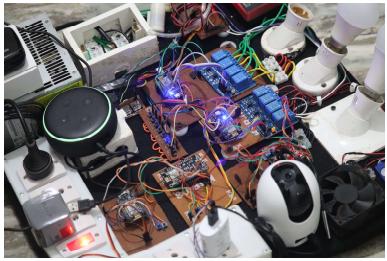
## 4. Patient Monitor Module



- Monitor the patient anywhere around the world.
- Easy to connect over the Internet.
- Graphical charts and levels.
- Automation And Triggering On Specific Conditions.

## 7. Project progress

- Completed around 90% of the project
- Implemented five modules (bed and ventilation, basic needs, patient monitor module, medical aid module, security and monitoring)
- Connected the modules with the IOT environment
- Activated voice assistance with IoT devices
- Calibrated sensors according to the environment



6/12/2023

17

## Reference



- Git hub
- Stack overflow
- Knibus
- Aurdino community

**Thank you !**  
**Any questions ?**

