

PRINTED CIRCUIT BOARD LABORATORY

SMART HAND GLOVE

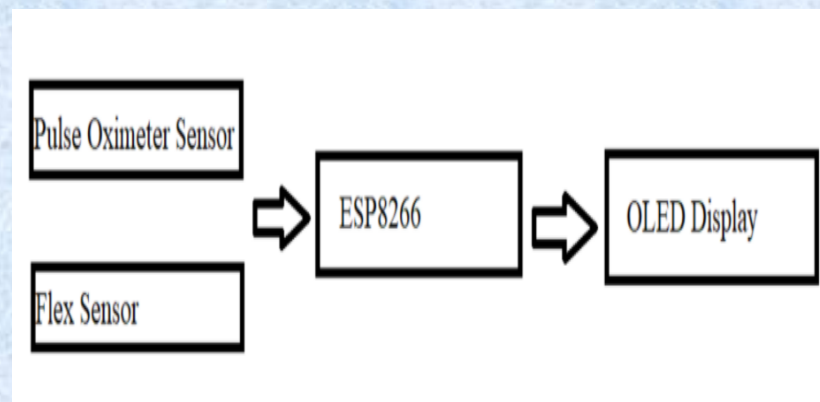
1. PURPOSE TO DEVELOPMENT SMART HAND GLOVE:

- ❖ The main idea is to develop a hand glove incorporating multiple sensors which measures the heart beat, oxygen level, body temperature and flexibility of the patients.
- ❖ The Hand Gloves can be used by senior citizen, Covid Patients etc., which monitors the patients health by using IoT Devices

2. PRODUCT INTRODUCTION

- ❖ The device has the capability to check the temperature, sugar level, and BP and the data's will send to the cloud , in cloud it will be compared with database and will process the following activity.
- ❖ The device will automatically send message to the ambulance and to the doctor and the address will be send to them using automatic geo location services . This services will be helpful for old patients who living alone.

3. WORK PLAN FOR DEVELOPMENT



4. SMART HAND GLOVE MATERIAL SELECTION

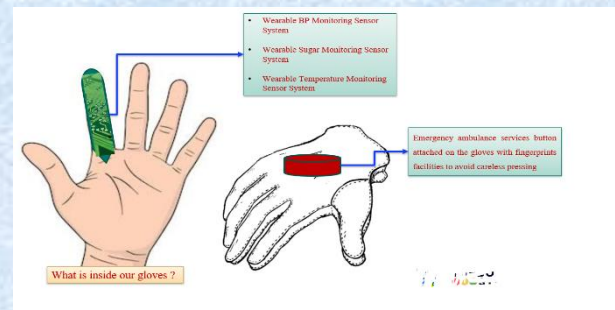
4.1 HARDWARE

- ❖ ESP8266(FOR IoT)
- ❖ ARDUINO UNO(FOR OFFLINE)
- ❖ OLED
- ❖ PULSE OXIMETER
- ❖ RTC MODULE
- ❖ FLEX SENSOR

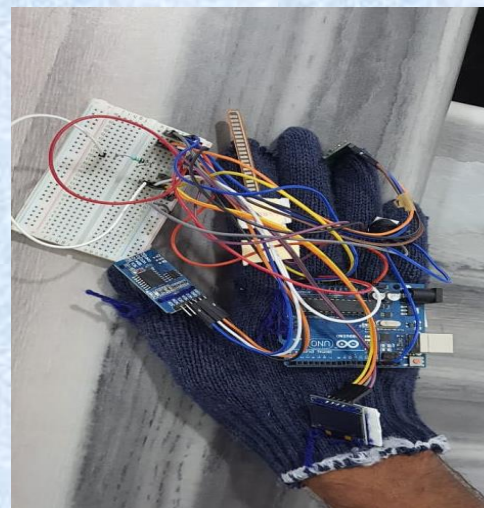
4.2 SOFTWARE

- ❖ ARDUINO SOFTWARE

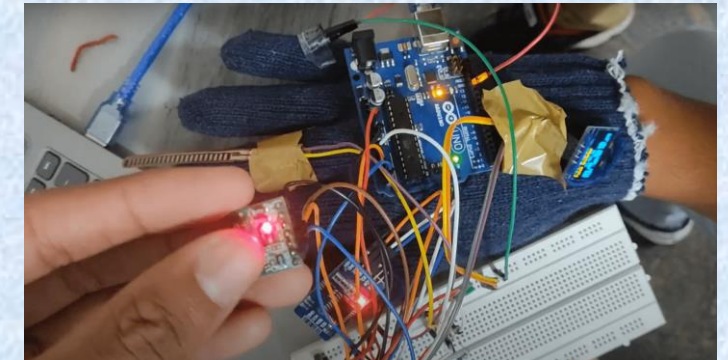
5. PROTOTYPE MODEL



6. WORKING MODEL:



7. FINISHED PROJECT



8. BILL OF MATERIALS(BOM)

S.NO	MAJOR COMPONENTS	COST PER UNIT	TOTAL COST
1	ESP8266	235	235
2	OLED & FLEX	110+300	410
3	PULSE OXIMETER & RTC	188 + 150	338

9. STUDENTS INVOLVED IN HOME AUTOMATION



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10. OUTCOME

- ❖ SELECTED IN SPECIAL TRACT IN "HACKMOL 3.0" ORGANIZED BY IIT JALANDHAR