HOSPEMS DOCUMENTATION

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An emERGENCY RESPONSE SYSTEM

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**HOSPEMS DOCUMENTATION**

# INTRODUCTION

## WHAT IS IT?

Hospems is an Emergency Response web application.

## WHAT PROBLEM DOES IT SOLVE?

Hospems is going to assist in properly allocating resources (medical staff) in the hospital.

## WHICH TECHNOLOGIES DOES IT USE?

### Frontend:

A website designed using HTML and Bootstrap

### Backend:

A Web API designed using Flask

### Raspberry Pi:

GPIO was used in connecting a button to send POST requests.

# OVERVIEW OF THE FEATURES

The button is placed beside the bed of the patient and in case of the need of immediate care or an emergency, is pressed.

When pressed the button sends data containing his / her info to a webpage which can be viewed by the doctors or nurses on duty.

This information assists the staff in easily locating the patient and getting the necessary documents before treating the patient.

# RUNBOOK

## REQUIREMENTS

In order to use the system, you need to have a raspberry pi system with working GPIO. You will also need to have an internet browser to interpret the HTML pages.

You will also need a buzzer (connected to GPIO 17) and a button (connected to GPIO 2).

The following will need to be running in order for the application to work:

1. **If you are running it locally**, *the hospitalButton.py and myapp.py need to be running alongside the webpage if you are running it locally*.
2. **If you are running it from the online server**, *just the hospitalButton.py needs to be running alongside the webpage.*

You also need Python (v2.7.16 *or above)* to be able to run the application

## RUNNING

After your details are inputted into the system by the system administrator, all you need to do is press the button for the necessary info to be sent to the webpage to be viewed by the medical staff.