



# Emergency Escape Application with Arduino

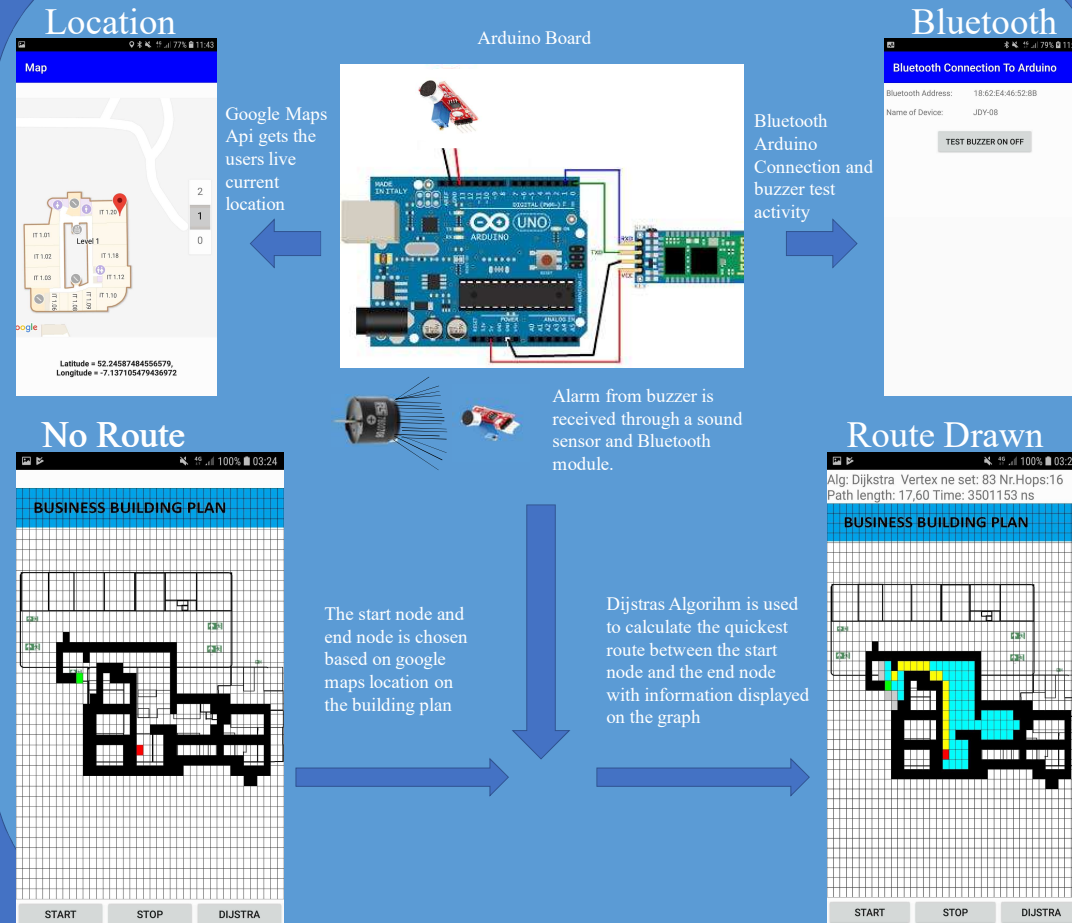
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## Introduction

- An Arduino board is connected to a mobile application, a buzzer and a sound sensor in Arduino.
- The buzzer will sound, and an emergency exit route is displayed on the screen.
- I use a custom view in Arduino called GridView to display the graphs of the escape route.
- The application is for android, it has a firebase database of users. Dijkstra's algorithm is used to find the quickest route out of the building.
- Google Maps API is used to display the map with current location.

## Overview



## Things I learned

- Dijkstra's Algorithm
- Java
- XML
- Firebase
- Google Maps API
- Using Arduino - Sound and Bluetooth module in C++

## Possible Uses

- Getting routes in college campus buildings, could be used for induction days
- Routing Applications
- Arduino Mobile Applications
- Quickest way to a parking spot in a big Car Park
- Emergency escapes at large events

## Technologies Used

