# AUTOMATIC DOOR OPENING WITH METAL DETECTION AND ALERT MESSAGE

## STATUS REPORT:

**Introduction** - The Automatic Door Opening System with Metal Detection and Alert Message is a cutting-edge security solution designed to provide a secure and convenient entry experience. This system integrates advanced metal detection technology with automatic door opening functionality, ensuring that only authorized individuals with approved metal objects can enter the premises.

Automatic door opening with metal detection and alert message project mainly aims in opening the doors without any manual help. It is difficult to manually open the door always in places like hotels, malls, office, supermarkets etc. • We introduce this project which makes the door open automatically when the sensors sense the presence of a human being. • This system works with the help of PIR (Passive InfraRed) sensors. A live body emits some energy, this energy is sensed by the PIR sensors and the door opens as the energy comes closer to the door and closes as the energy goes far away. This system is enabled of even detecting any metallic objects the human is carrying with him and notifies accordingly. • We can develop this system further by integrating counter mechanism so as to keep track of the number of people came inside the facility. We completed the hardware part of Automatic door opening with metal detection and alert message project.

❖ We've successfully reached the first major milestone, completing 40% of our project!

**PROJECT GUIDE**                          **PROJECT MEMBERS (Batch 5)**

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