



TECHNO TRIBE

presents

OUR TEAM:- TECHNO TRIBE

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WELCOME TO OUR PRESENTATION

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PROBLEM STATEMENT

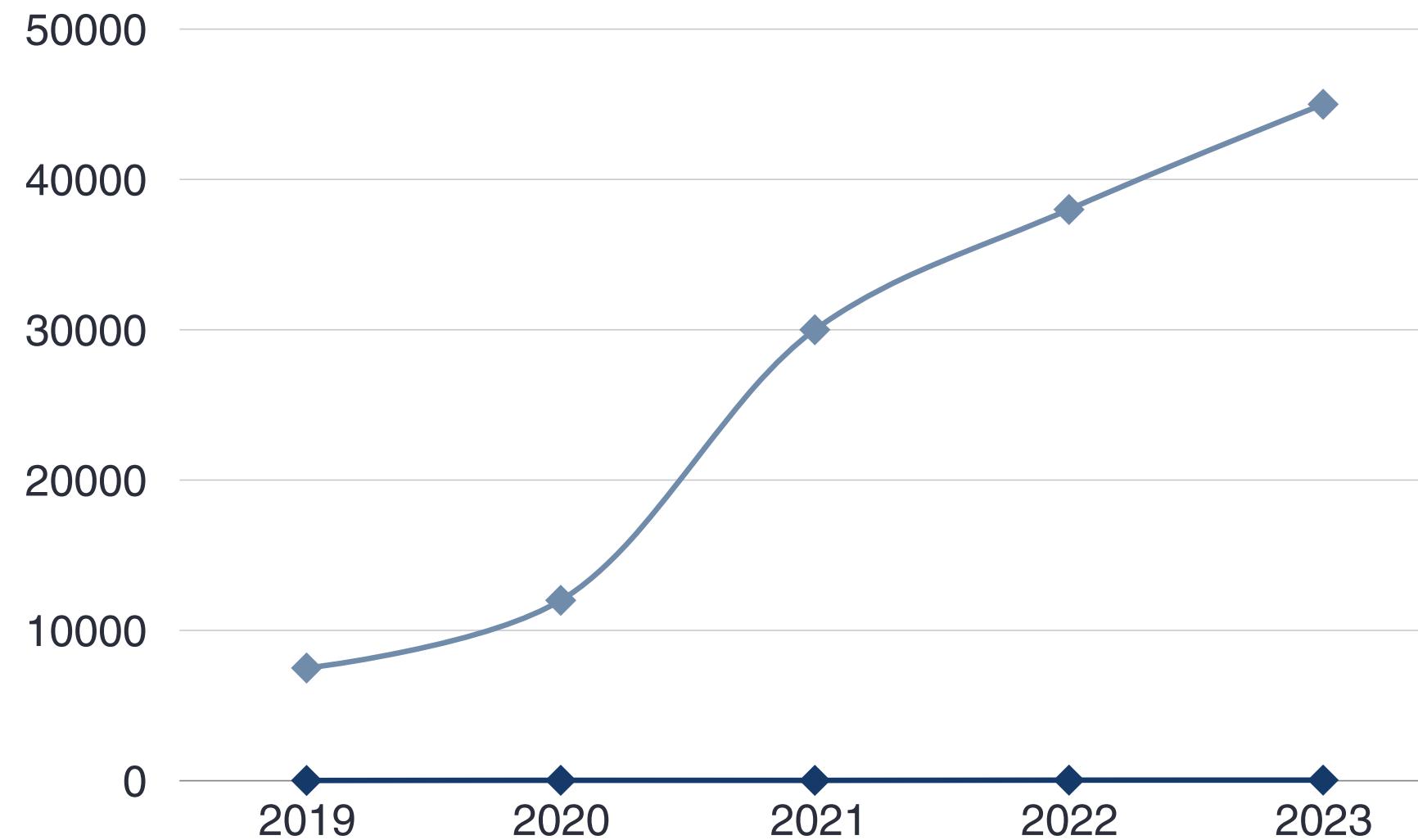
The normal bags lack security features, which leads to missing of things or lack of organization in certain cases .It may contains a high value Products , documents Or legally sensitive items. Victims often face emotional distress and a sense of violation, impacting their overall well-being



SURVEY

Bag theft survey all over india 2019-2023

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Theft survey in india at 2019:-

7,500

Theft survey in india at 2023:-

45,000

objective

To improve the daily facing challenges,
we come up with an
idea which resolves
all problems just by
using one bag

**SO WE'RE INTRODUCING A NEW PRODUCT NAMED
STR**



STR

SECURITY TRACKER RUGGED BAG

Our Goals



Goal # 1

It notifies you when a stranger tries to open up a bag



Goal # 2

It is also used to track the location of bag



Goal # 3

It is used to charge our devices using solar panel or manually

COMPONENTS USED

1.



MAGNETIC
REED
SWITCH

2.



TRACKER

3.



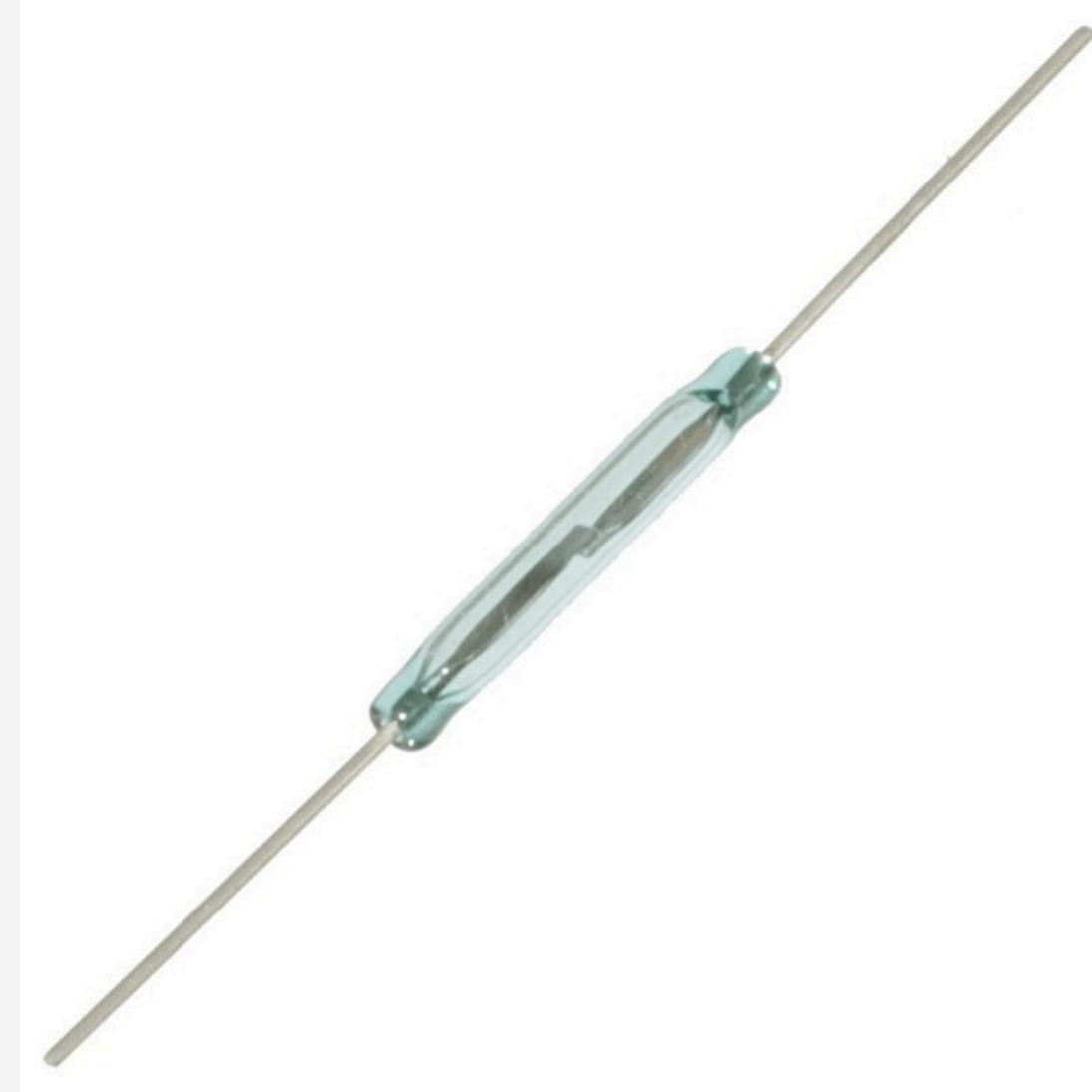
BUZZER

4.



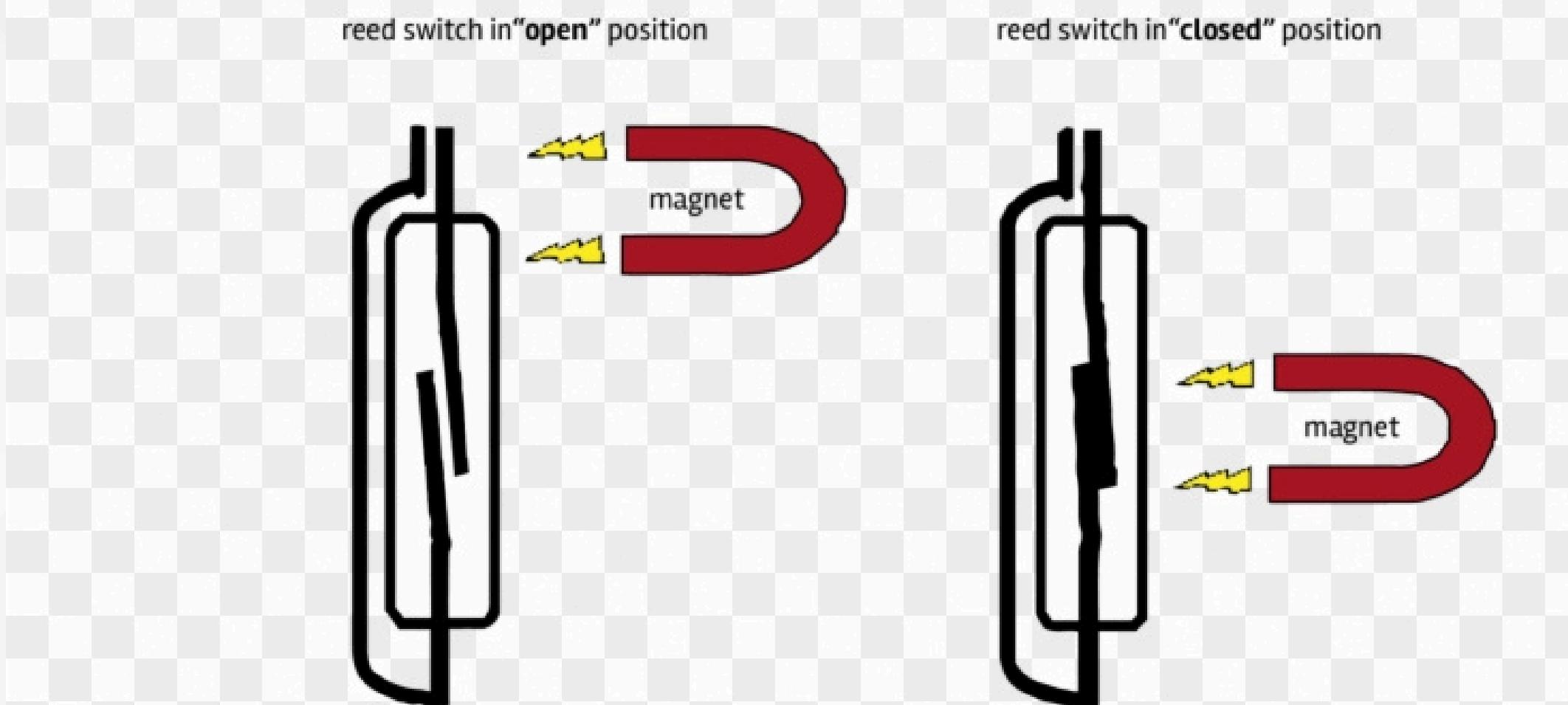
ESP32

MAGNETIC REED SWITCH

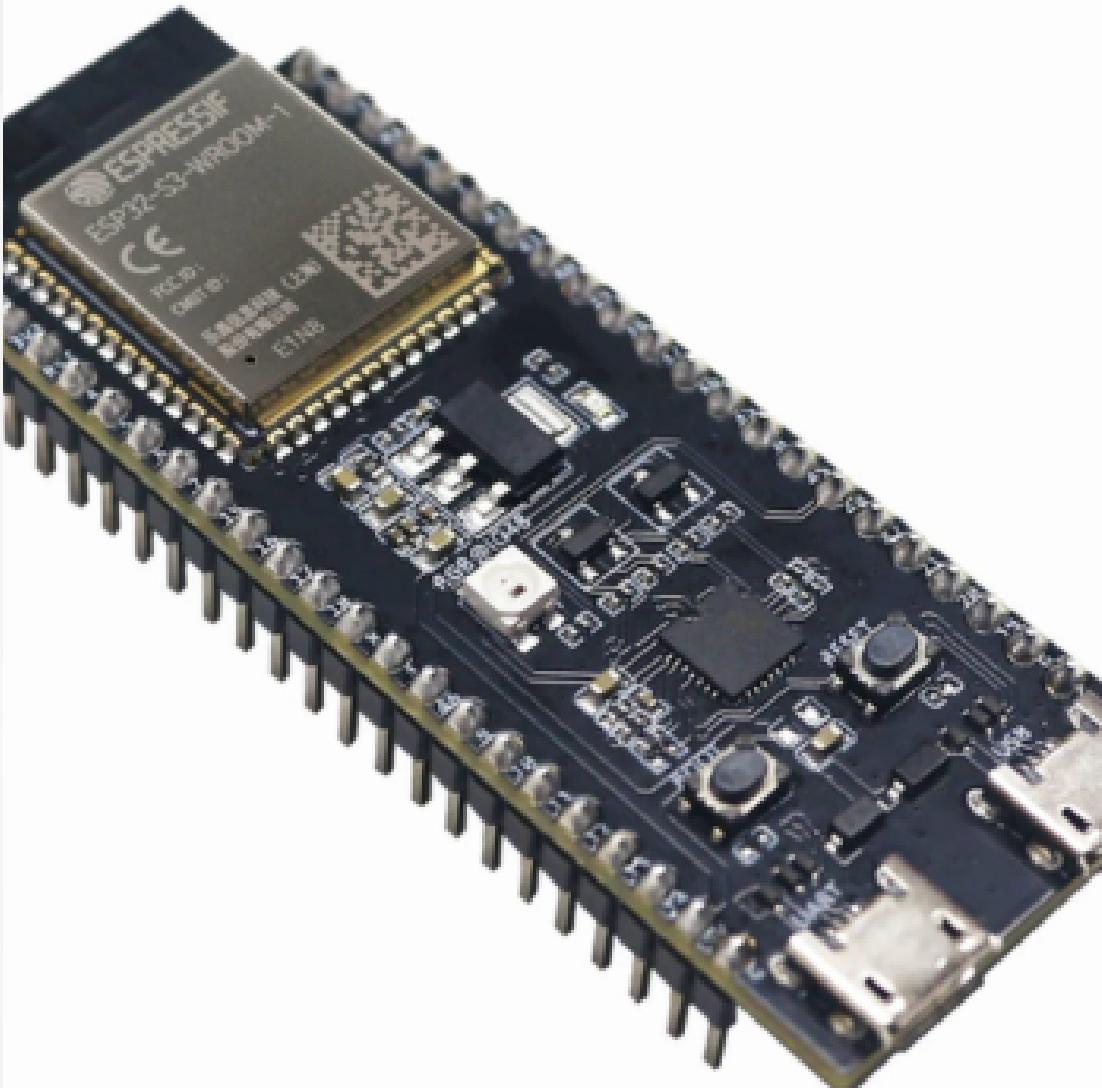


Reed switches actuated by magnets are commonly used in mechanical systems as proximity sensors. In the presence of a magnetic field the reeds are attracted to each other and close to complete the magnetic and electric circuit.

WORKING OF MAGNETIC REED SWITCH



ESP32



THE ESP32 IS A POWERFUL AND VERSATILE MICROCONTROLLER MODULE DEVELOPED BY ESPRESSIF SYSTEMS.

KEY FEATURES

DUAL-CORE PROCESSOR: THE ESP32 IS POWERED BY A DUAL-CORE TENSILICA XTENSA LX6 MICROPROCESSOR, RUNNING AT UP TO 240 MHZ.

WIRELESS CONNECTIVITY: WI-FI: 802.11 B/G/N, OFFERING A FULL TCP/IP STACK.

BLUETOOTH: SUPPORTS BOTH CLASSIC BLUETOOTH AND BLE (BLUETOOTH LOW ENERGY)

MEMORY: RAM: 520 KB SRAM. ROM: 448 KB.

FLASH: TYPICALLY 4MB, BUT MODULES WITH 8MB AND 16MB ARE ALSO AVAILABLE.

TRACKER

*Usually tracker involve the use of GPS (Global Positioning System) technology to determine the location of an object or person in real-time.

*Typically it consists of a GPS receiver that receives signals from satellites to pinpoint the exact location of the tracker. This location data is then transmitted to a central server or monitoring device using cellular networks or other communication methods.



BUZZER



A BUZZER IS COMMONLY A ELECTRICAL COMPONENTS THAT PRODUCES SOUND WHEN AN ELECTRICAL SIGNAL IS APPLIED TO IT.

A BUZZER TYPICALLY REQUIRES A POWER SOURCE TO OPERATE. IT CAN BE CONNECTED TO A DC POWER SUPPLY OR A MICROCONTROLLER LIKE ARDUINO FOR CONTROL.

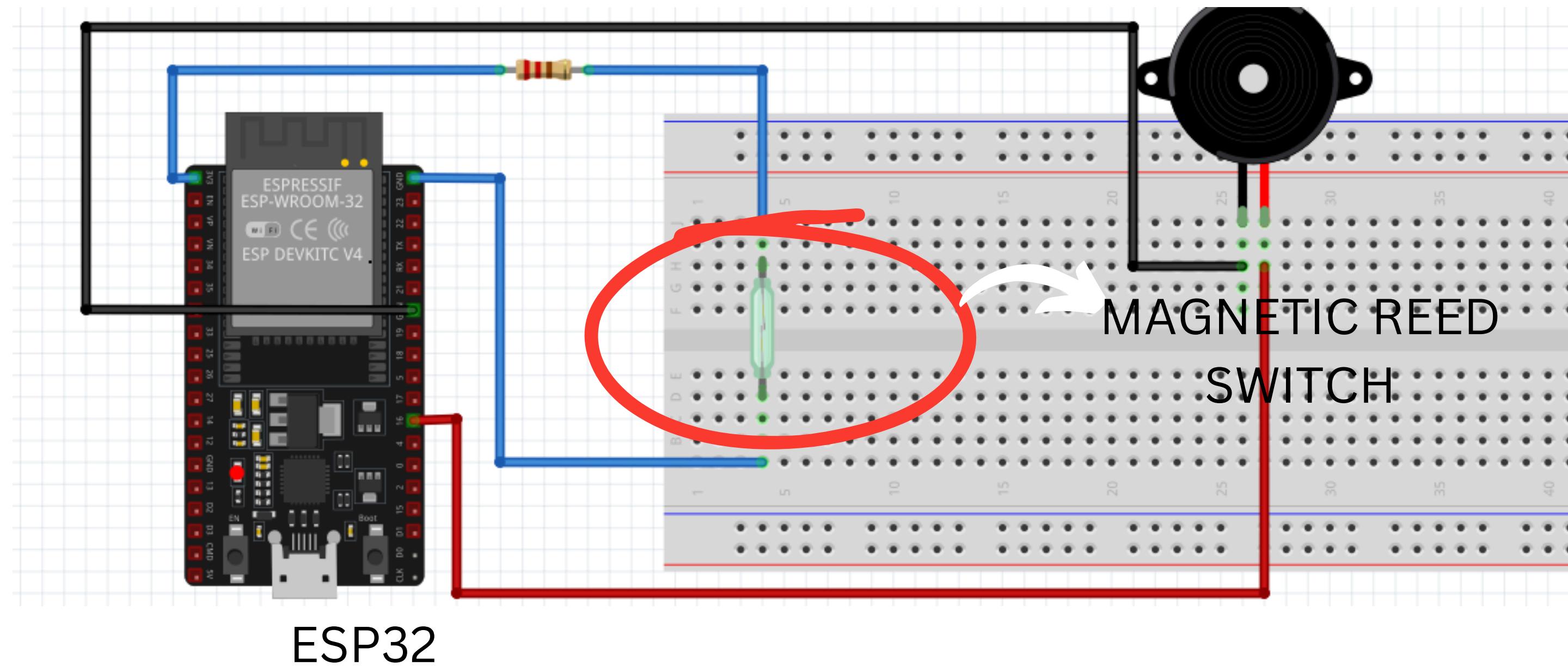
HOW DOES IT WORKS



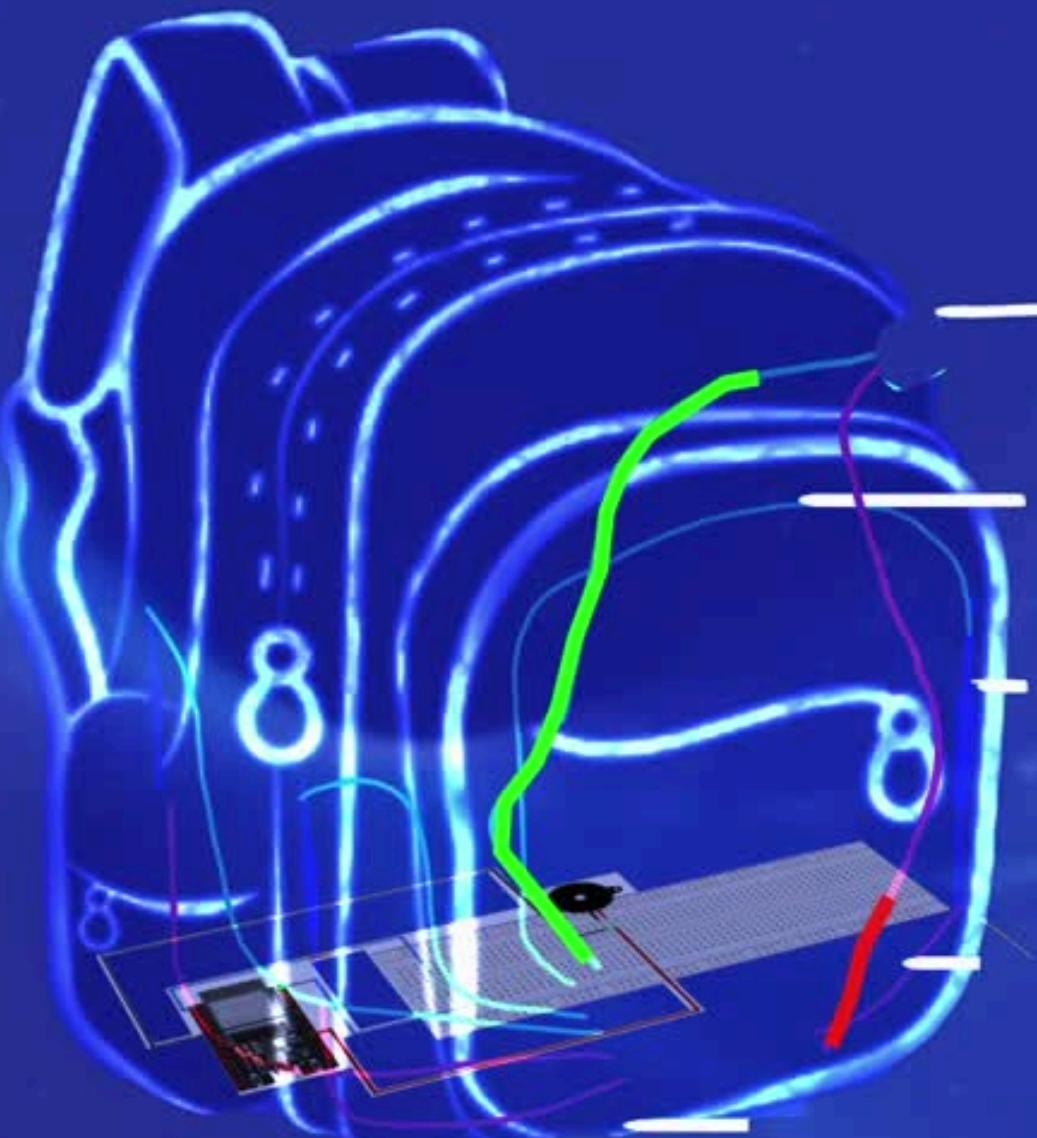
SYSTEMIC REPRESENTATION

RESISTOR 100 OHM

BUZZER



WORKING PROTOTYPE



USES

1. It is used to track the location of the bag if it went missing and we will be notified if any theft happens or any suspicious moments caught offguard
2. It is also used to charge the mobile or any gadget using solar panel attached or manually



USES

In metro stations or crowded places, we can able to protect our valuables in our bag without any fear of getting snatched or losing



advantages

Anti-Theft Features:

We have implemented STR which protects your bag and valuable products

Compartments: Opt for a bag with multiple compartments to keep your items organized and make it harder for thieves to access your valuables quickly

Travel: Secure your passport, tickets, money, and other important documents

Daily Commute: your phone, wallet, keys, and other personal items Can be safe while using public transport by str .

Shopping: Prevent theft while carrying purchases and personal items in busy markets or malls.

Outdoor Activities: Use it during hiking, camping, or other outdoor activities to keep essentials secure.

CONCLUSION



Using security bags helps businesses and individuals comply with legal and industry standards for the secure handling and transportation of sensitive items

While the initial investment in security bags may be higher than traditional methods, the long-term benefits, including reduced losses and increased operational efficiency, result in significant cost savings.

THANK YOU

