MPCA PROJECT

TEAM MEMBERS:

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SEC D

GARAGE DOOR

**Aim:** Simulation of an automated garage door

**Objective:**

* To check the vicinity for a registered approaching vehicle or person and automatically open the garage door.

**Hardware** **components:**

* Arduino board
* H bridge
* Bread board
* Jumper cables
* Motor
* Ultra sonic sensor
* Barcode sensor
* Buzzer

**Software** **components:**

* Arduino
* C

**Description:**

The ultra-sonic sensor detects for any object in a particular radius. When an object is detected, a barcode sensor scans and identifies the QR code. For a registered QR code, the door automatically opens with the help of a motor and closes after a short interval of time.

STOP

Open garage door and close after small interval

Is barcode registered ?

Scan the QR code using Barcode scanner

If no

Is any object detected

nearby?

Collect data from ultra-sonic sensor.

If no

If yes

START