

Group 3
Presentation by Malav Patel, Yegor
Kozubenko, Tasnim Anowar



•









• •

• •

21.

The project

Why we are doing this

24.

Sneak peek

How our demo works

02.

Requirements

Why is the safety of this project so important e. at_sign

Ø5.

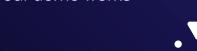
Our obstacles

What were our main roadblocks



GUI

How our project interacts with the user interface

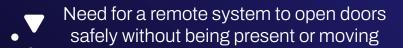




Intro



Project Back story















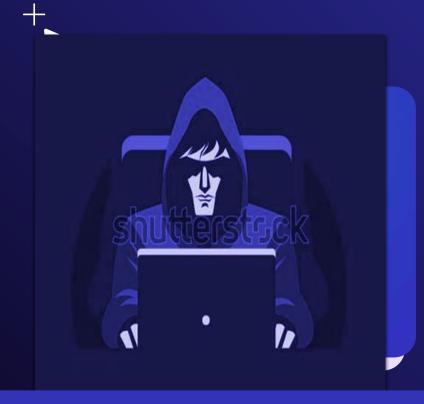
About the project

```
enum Event {
   SYNC_DOOR, SYNC_RE,
   DOOR_OPEN, DOOR_OPENED,
   DOOR_CLOSE, DOOR_CLOSED,
   DOOR_HALT, DOOR_OPEN_BY_20,
   DOOR CLOSE BY 20.
   LCD_SHOW_DOOR_STAT, LCD_SHOW_RE_STAT,
   RE_CHANGE, RE_SET,
   RE_INC, RE_DEC,
static int (*(Event_Handlers[15]))() = {
   door_sync_status,
   re sync status.
   door_will_open,
   door_has_opened
   door will close,
   door has closed.
   door_is_halted,
   door_open_by_20,
   door_close_by_20,
   lcd show door stat.
   lcd_show_re_stat,
   re_will_change,
   re was set,
   re value increased.
   re value decreased
```

- Efficiently and securely logs in using at_sign
- Alerts about the status of the door
- Also has features to pause or unpause the door









Now

- Threat of getting hacked
- In need of login in encrypted













Solution

• •

- Stored once (though it can be backed up)
- Protected by your keys
- Accessed by applications/companies with your permission, and that permission can be revoked by you at any point in time
- End-to-end encrypted at at all times

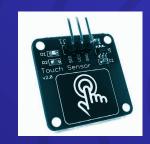


Components

- Esp32
- 9g motor
- RE sensor
- Capacitive touch sensor
- Lcd module

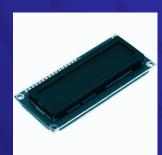






Esp32 & touch sensor





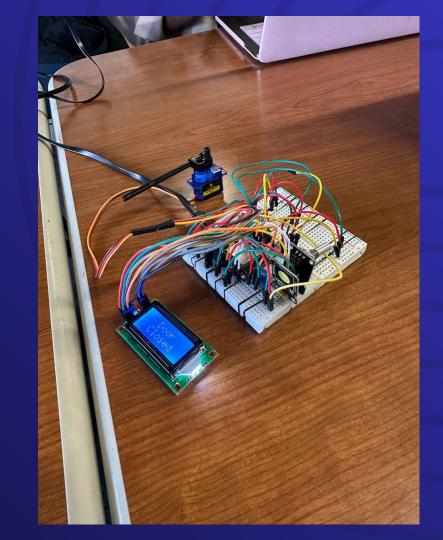
9g servo & lcd



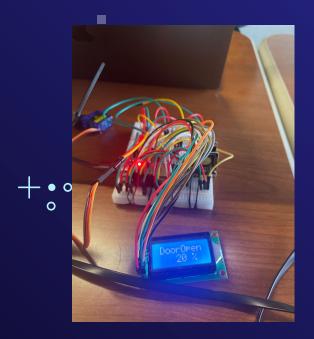
RE sensor

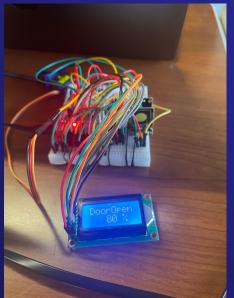


Board and components











Using Rotary sensor and the LCD to indicate how much the door is open









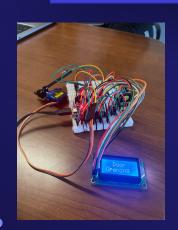
• •

••



Circuit and UI









• •

•

••

Our obstacles

- Figuring out the pins
- Motor not being strong enough
- Issues with reading signal from sensor
- Finding good IDE for the UI part that support Java Swing







Project Repository - https://github.com/UMB-CS-410-TE AM-03

Malav Patel https://github.com/patel-malav

Tasnim Anowar - https://github.com/tanowar

Yegor Kozubenko - https://github.com/AltiAtmos













When it's been 7 hours and you still can't understand your own code







.





Thank you!

Do you have any questions?