INNOVATIVE PROJECT- RASPBERRY-PI USING PYTHON (CSE1003)

QR-CODE and IoT Based Electronic Passport Verification with Alert System Using Raspberry Pi

By

Name: S P BRAHMA CHAITANYA Roll No: 20211CIT0110

UNDER THE SUPERVISION OF

Ms. Sweet Subhashree Assistant Professor Department of CSE Engineering

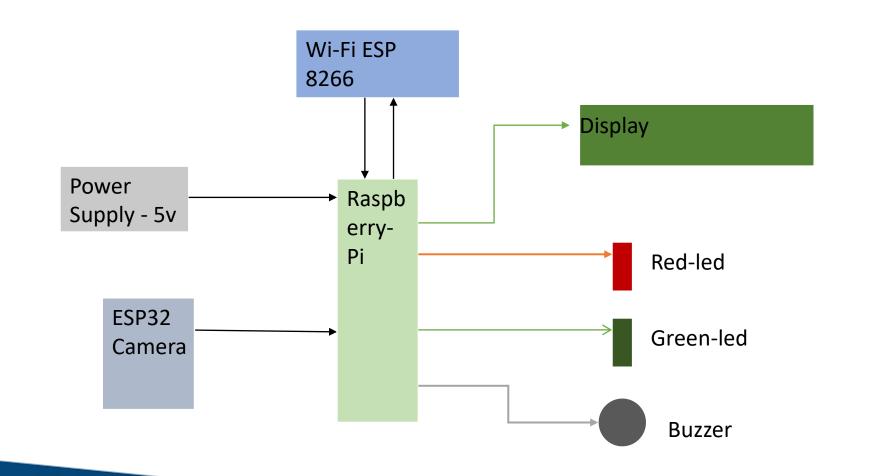


PROJECT SUMMERY

- The new Electronic passport became a much more convenient than traditional, thus reducing the number of human errors that could be easily checked protecting against the manipulation of travel documents, and thus improving border security issues
- The system simplifies this process by using a QR code scanner with a unique identification number. Information includes name, nationality, and address.
- It reads both authorized and unauthorized users, and an alarm (buzzer) is activated with glowing LEDs when the user is unauthorized.
- The system used clearly shows that all the passport details will be electronically stored thereby reducing the risk of forgery, duplication of identity or identity theft, and major problems which come with the conventional paper passport booklet.
- We've used a Raspberry Pi Pico board, input power, camera for scanning QR codes of the passports, Wi-Fi for connecting the QR to our own webpage, LCD screen for display, green and red LED lights a buzzer for any type of alerts.
- From this we can get to know about the duplication of passports and the victims



BLOCK DIAGRAM





EXAMPLES OF USER INTERFACE

