GATE PASS SYSTEM

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Gate Pass System(GPS)

This system would enable monitoring gate pass for users with possessions such as laptop.

Entrance

The item is marked with a unique code generated by the system(the code is written on a sticker and marked on the item);

The user would then be prompted to enter a securing pin/password and confirm;

If possible, the password could be sent to user's preferred account such as email or WhatsApp;

The item unique code is stored together with the user entered password in the system;

Exit

The user presents the item and the unique item code is entered; the user then enters the password;

If the password matches the item's unique code; the user will be allowed to exit;

If the credentials are not correct, then user is allowed to take a minimum of 10 minutes to retry again.

Reasons For Implementing such system

- ➢ Increasing malpractices such as stealing in public places such as hospitals and other institutions where a member would steal from a colleague within the institution premises and proceed to pass through the gate and go unnoticed.;
- ➢ Some members even go ahead to steal electronic gadgets such as laptops;
- ➢ Having such members in book through password entry at the gate to confirm gadget ownership before exit sometimes go in vain since some even go ahead to get access to their colleagues' passwords;
- ➢ Note that people who are professional in IT fields can easily change these credentials(e.g. password) when dealing with electronic gadgets such as laptops;
- ➢ Password entry also is sometimes timewasting especially to members with electronic gadgets such as laptops with bad batteries.:

Why the idea is Worthwhile

- ➢ To counter the above malpractices
- ➢ To appreciate technology

Requirements

- ➤ The system(ATM like interface and operation)
- ➤ Sticker book or Marker(permanent that can not be easily erased)
- ➤ Operator

Strengths

Note that currently people are issued with gate pass sheet, which sometimes may get lost, since you store it separately with the item;(find if sticker can do better than this)

Members who enter and exit with particular items or gadgets are noted each day;

Weakness

Possibility of users transferring the stickers to their colleagues' possessions and proceeding out with them using the password

Notes

- ➤ Let's narrow down our items to electronic gadgets(laptops, desktops, iPad)

- ➤ Take note of mac addresses of each device
- ➤ A device that did not come in should not get out, so when a device is getting out follow closely whether it got in at one point
- ➤ Each day take note of all devices that got in and got out(their time in and time out)
- ➤ Note that we are dealing with devices getting out of the premises

Simple Question

Simple Question??? Can you change mac address of a machine/laptop!!!!?

Interfaces

- ➢ Admin interface- can be used to trace daily passes
- ➢ Operator interface- getting object unique code and password

Database

- ✓ Table 1; maintain (item_unique_code, make(e.g. hp stream ----, MacBook, dell etc) item_mac_address(if electronic gadgets)
- ✓ Table 2; maintain (item_unique_code owner_type(staff, student, visitor), owner_details(staff_no, reg_no, national_id_no), phone_no, email_address))
- ✓ Table 3; item_unique_code, pin
- ✓ Table 4; item_unique_code, day_in(date.now), time_in(time.now), day_out(date.now), time_out(time.now)(each time you get in, this table will be updated, to insert day_in and time in, ,,, it then wait to match the day_out, and time_out)