

# Gate-pass Management System

<sup>1</sup>Prof. Archana S. Banait, <sup>2</sup>Ms. Neha Buwa, <sup>3</sup>Ms. Varsha Jadhav, <sup>4</sup>Ms. Pooja Ganate, <sup>5</sup>Ms. Shubhangi Dagale

MET Bhujbal Knowledge City, Nashik

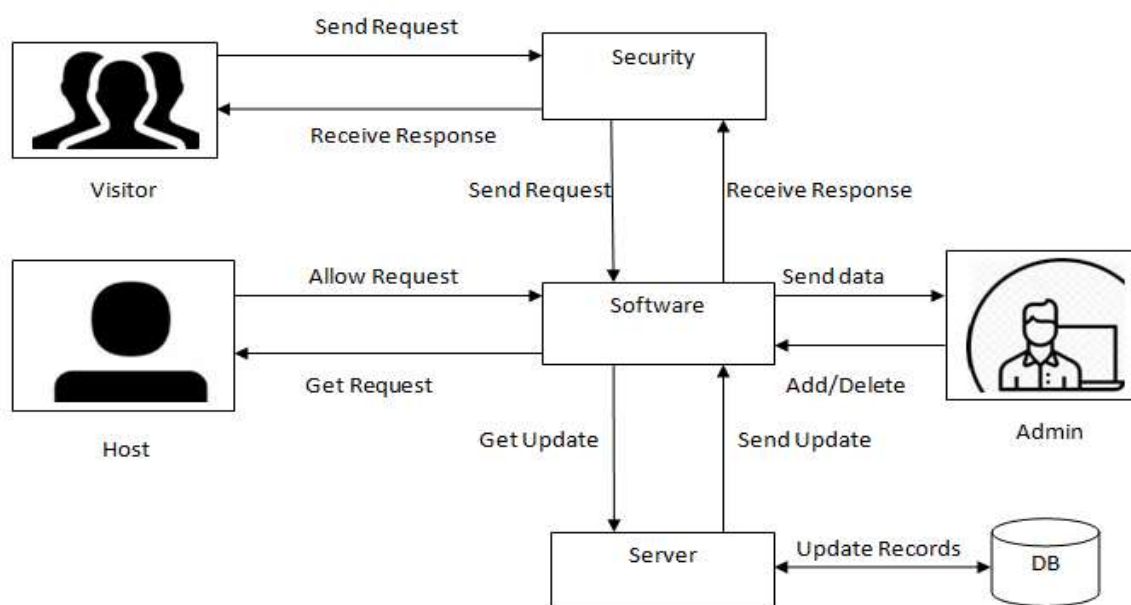
**Abstract:** The Project 'Gate-pass Management System' is to record the details and various activities of the user. It simplifies the task and reduces the paperwork. In this project, we are reducing the paperwork which is done by giving the paper gate pass. We are providing the electronic version of the paper gate pass. We provide appropriate training to the user which suit their specific support has been provided at key points within the academic calendar. Admin is monitoring all the user and system. In this project, the only faculty is approving the user gate application if they want to allow student then gate pass system is a pop-up on the guard system database. Training has been provided timely basis and they got trained as the Gate-pass System is new and rolled out to their area of responsibility. At the moment we are in the very early stages, so it is difficult to put a specific time on the training, but we will keep people informed as plans are developed. The system is very user-friendly and it is anticipated that functions of the system are easily accessed by administrators, Faculties, students, and applicants.

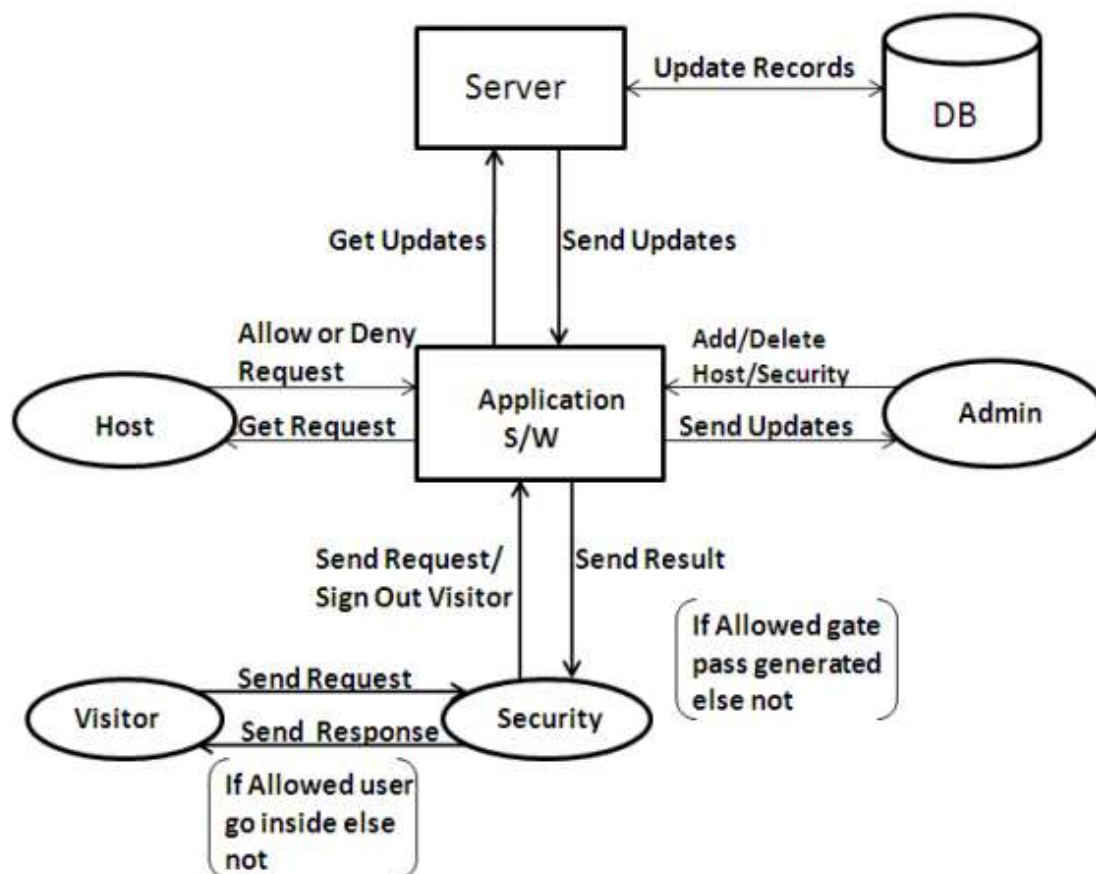
**Keywords:** Gate Pass Management system, RFID reader and card, Database

## Introduction

GMS provides an easy method for the front desk officer to search the ongoing visitor of the day. They will be timely notified of the current visitor visiting their department. Searching method is also faster and the system will give output that user needs. Currently, most organization is using the named method in keeping track all the incoming and out going visitor records in each of the department. Problem raised when at curtain point of time the number of visitor visiting the department increasing and unable to manage and messed up. On top of that, a security issue also is the main issues in generating visitor pass in that particular organization. VGMS also helps user access information inquiry faster. Compared to the manually system, user need to go page by page to search information. Imagine there was hundreds of visitor coming in and out. However, with the new system, user only need to search via card number and as a result, the system will display related output that been entered by the user earlier. Problem such as waiting for a long time queue will be no more an problem and will give an impression of well-organized system.

## Block diagram of system





## Literature Survey

[1] The Gate-Pass Management system by applying the model of UTAUT was discussed by Norizan Anwar, Mohamad Noorman Masrek, Yanty Rahayu Rambli in year 2012. They proposed the system by adopting technology model (UTAUT) to determine the user acceptance of visitor application system. The main motto of this system was Handling your visitor at your fingertips.

[2] Another system for Visitor Pass was discussed in the paper by Prof. Abhay Gaidhani, Suraj Sahijwani, Parag Jain, Shantanu Jadhav, Ankush Jain in year 2015. This paper aims to develop a system for Gate pass using Raspberry Pi. The main aim was to save paper with the help of Internet Connectivity to send SMS and Email for verification of user.

[3] Digital Visitor Information Management System (VIMS) Application and Design. This application enables capturing new visiting record by auto-clock in/out, and assignment of visitor pass. Visitor information are recorded in a centralized database server, which provides data management and manipulation through searching and report generating. E-VIMS able to record visitor information during visitor registration by using visitors Malaysia Government Multipurpose Card (MyKad)

[4] On the other hand, the decision to develop a visitor system may depend on the needs of an organization so in this review paper we have discussed a Visitor Gate Pass Management System to enhance level of security and manage visitor in any Organization`

## Mathematical Module

### Problem Statement

The computer becomes important equipment to the organization to store the data and to process the data for any purpose. It also can be used to access and process any data and information needed easily and less in time. Therefore, it is hope that GMS application system able to solve the problem

## Conclusion

By using VGMS, the organizations have an option in increasing the level of security enforced in their premises. VGMS enables free, secured, fast and easy visitor registration.

- \_ Computerized records give better management and manipulation of data, through searching and report generation.
- \_ Its installation is easy and hence does not require professionals for the same.
- \_ The VGMS system is easy to maintain and use.
- \_ It gives reliable and efficient security protection on which one can rely.
- \_ Unauthenticated and unwanted users cannot enter the commercial space.
- \_ Biometric functions can be coupled with the existing system to gain extra security.

Hence we can conclude that this system would prove to be an efficient system to obtain a Gate Pass in any organization. Using this system the usage of paper decreases drastically and gate pass can be obtained through NFC card that proves to be more secure and easy process which also saves time in obtaining gate pass and thus makes procedure easy.

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