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**PROJECT PROPOSAL.**

**TOPIC:**

**A COMPUTERIZED VISITOR MANAGEMENT SYSTEM (CVMS) IS DESIGNED.**

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# **ABSTRACT**

The computerized passage system is an idea yet to be embarked on by us. This computerized passage system brings about tight security in secondary institutions, offices, estates, prisons and many more places. This system authorizes visitors before they are granted access to a particular building, compound etc. This computerized passage system will help to reduce the rate of conflict between the security men and the visitors of wherever this system will be implemented. It will avoid any form of criminal activities since all the names of the individuals in the particular place are with them to guarantee tight security in the place.

# **INTRODUCTION AND BACKGROUND**

In certain offices, visitors are allowed to come in and out regardless of who they are but not all visitors are permitted to enter. A visitor maybe a student, a lecturer, a parent, a working staff and many others. Over the years, most workplaces’ security system has been seen to be austere to the extent that there have been cases of arguments between a security personnel and visitors. Their old security system has caused so many problems. Sometimes, the security sends the parent or the visitor back and halts the car from entering the place. After several deliberation, my team and I came together and concluded that we would design and implement a Computerized Visitor’s Management System (CVMS). A Visitor’s Management System is the process of tracking everyone who enters a building or an office [1]. We decided define Computerized Visitor’s Management System (CVMS) as a system that allows an outsider or a visitor to register and book an appointment in other to notify the security guards at vantage points of your coming and to prevent any form of embarrassment or conflict. This system also includes the use of OTP verification codes which will be used by visitors in order to make it easier on the path of the security guards to identify the individual on the database system. When done right, it will yield many benefits. The Computerized Visitor’s Management System (CVMS) can prevent criminals from entering the place. It can prevent the high risk of kidnapping in the particular place it’s being implemented in. The system does away with conflict between visitors and the security guard at their vantage points. The system prevents those camouflage cars that may use the area as an easy way to beat traffic. It prevents outsiders that are always ready to create confusion in the workplace from entering. It can also prevent drug dealers and smokers from entering the area it’s implemented in in order to prevent people from getting in touch with such people and being addicted to such harmful substances. Lastly, it reduces theft cases in the area. All these benefits can be enjoyed by those who use our Computerized Visitor’s Management System (CVMS). The benefits listed aren’t all the benefits but there more to it than what is here. In the Computerized Visitor Management System (CVMS), it can have factors like large data or small data, good data reports, multiple or single locations and many more [1].

# **PROBLEM STATEMENT**

Over recent years, a lot of workplaces and others always had a strict security system through the checking of people’s license, questioning the drivers or visitors, refusing cars with unregistered number plate entry, and refusing camouflage cars from using the school as a shortcut to beat traffic at the overhead project ongoing. Due to the security guards doing their job, the issue of disrespect came up. A security guard was in a heated argument with a someone because the security guard refused to open the gate for the person because he or she thinks the person is trying to use the place as an easy way to beat traffic. This is very unprofessional. Some people just dislike being questioned and most of them see it to be very unnecessary to show a security man or guard their Driver’s license because they think he or she doesn’t have that much authority to check an individual’s license. Hopefully, the Computerized Visitor Management System will take all this away since this system will make it easier for the security guards as well as the visitors for easy access to the place.

# **SIGNIFICANCE OF THE STUDY**

There are so many benefits of the Computerized Visitor Management System which are listed below:

1. It can prevent the high risk of kidnapping in the place.
2. It will reduce the rate of conflict and argument between the parent and the security guard.
3. The system prevents those camouflage cars that use the place as an easy way to beat traffic.
4. It can also prevent drug dealers and smokers from entering the place.
5. It reduces theft cases in the place.
6. The system ensures and keeps everybody in the place safe.

# **AIMS AND OBJECTIVES**

## Aims

Our main aim is to create a web-based visitor management system that allows people to easily visit people in places with a rather austere security system thereby preventing unwanted visitors from entering the place and improve the general security of the place.

## Objectives

By the end of this project, the following should have been accomplished:

* A web-based visitor management system that will use OTP verification.
* A database system to store the information of all who use the system.
* A system that will work at the gates of the area or building that will be used to verify the identity of the person.

# **LITERATURE REVIEW**

The visitor management system is important and plays a vital role in mays institutions, offices, companies and other workplaces. In order to ensure that the people entering and exiting the place are actually who they claim to be and to keep those residing and working in the particular place safe, the implementation of the visitor management system is absolutely necessary.

Through observations, it’s been deduced that the inexistence of a proper visitor management system often causes a lot of commotion at the gates and sometimes blocks other people from entering since the cars have to be attended to one by one and the people in the car then have to be questioned by the security in charge and that takes up quite a lot of time. There’s also no way for the security in charge to actually confirm the identities of the people therefore some people whose genuine intentions are to visit someone in the place are denied access at the gate and told to return or have to wait for long periods of time in order to properly confirm their identities, leaving some people in frustration with the security and the owners.

That’s why it’s once again absolutely necessary to have this system implemented so that such instances like the aforementioned instance does not reoccur.

# **METHODOLOGY**

Information needed for the project will be gathered from various sources. In gathering and analyzing necessary information needed for the system, two major finding techniques will be used:

1. Primary source

This refers to the source of gathering original data in which the researcher will conduct questionnaires and personal interviews.

1. Secondary source

The secondary source of data will be obtained from internet downloads, library source, journals and other books.

## Tools and Techniques to be used

The projects feature will be developed using the PHP programming language.

This was chosen because it is known to be one of the simplest ways of creating software that can connect well with HTML and the database. The interface of the web application will be developed using CSS, HTML, JavaScript.

The database will be created using MYSQL which is a popular choice as a universal database software for local storage in application software such as web browsers.

# **Flow of information**

## Access

Start

Registration successful

End

Register

NO

YES

Dashboard

## Appointment Booking

Start

Book appointment

Booking successful

OTP code

End

Dashboard

NO

YES

## Security Checkpoint

# 

OTP code

Start

# 

# 

NO

Does code exist?

# 

# 

YES

# 

Personal details

# 

# 

NO

Does ID match the details?

# 

Deny access

# 

YES

Allow access

End

# 

# **REVIEW OF OTHER VISITOR MANAGEMENT SYSTEMS.**

## SINE

Sine is a cloud-based visitor management solution that serves small, midsize and large businesses. It's suitable for a variety of industries including construction, schools, hospitals, offices and property managers. Key features of the solution include visitor registration, automatic notifications, badge printing, reporting and analytics. A mobile app is available for Android and iOS devices. It provides QR code check in, check out reminders, visitor verification and mobile printing features. Sine offers integration with Outlook, iCal and Google. Sine is available with both monthly and annual subscription options. It is available worldwide and offers support through email, phone, video tutorial, FAQs and a knowledge base [2].

### Advantages of the System

1. When we initially launched Sine for the shopping center I had a few questions out of hours and used the online chat support and found it efficient and helpful with appropriate follow up [3].
2. Love the ease of use of this software, customer service assistance is amazing, very helpful and any issues are dealt with and rectified immediately. Presentations are easily uploaded for use [3].
3. The integration capabilities. The ease of use from a visitor standpoint [3].

### Limitations of the System

1. Sometimes it would not work properly when signing out. I also clicked on the wrong person once when signing in and there appears to be no option to change or amend this [3].
2. Not registering when all people have completed the induction making it frustrating for users [3].
3. Lag from users check in and check out doesn't refresh for about 15 minutes. The directory sucks too [3].

# **Schedule Timeline**

The project development will follow certain stages in the system development life cycle based on the selected hybrid methodology which are requirement gathering, analysis (requirement analysis), design, coding and testing, and delivery phase.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
| 1 | Week of…. | 5  Oct | 12  Oct | 19 Oct | 2 Nov | 9  Nov | 16 Nov | 9  Jan | 16  Jan | 6  Feb | 20  Feb | 7 Mar | 20 Mar | 3  Apr | 12  Apr | 24 Apr |
| 2 | Requirements |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Gathering |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Schedule interviews |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Conduct interviews |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | Analysis |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Design |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Coding and Testing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Final report creation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Report submission |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Gantt chart showing the project schedule

# **References**

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| --- | --- |
| [1] | The Receptionist, "Visitor Management System: How it Works".*VIsitor Management Systems.* |
| [2] | Software Advice, "Sine Reviews, Demo and Pricing".*About SIne.* |
| [3] | Software Advice, "Sine Reviews and Ratings".*What are Sine Users Saying About the Software.* |