

**CHRIST VisitorPass**

By

Aaron Mathew Shaji (2247201)

Apoorva Vasishtha (2247240*)*

Mohit Mehta (2247267)

Under the guidance of

Dr. Kavitha R

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**Project Overview:**

A visitor management system (VMS) is an essential tool for any college that is concerned with the safety and security of its students, faculty, and staff. The CHRIST VisitorPass App manages the entry and exit of visitors to the university. The primary purpose of the CHRIST VisitorPass App is to manage the flow of visitors on campus and ensure that they are properly vetted and tracked while they are on the premises. The app can include features such as registration, identity verification, report generation, and web app support in the mobile interface. The integration of the project with other security systems can also be considered as future scope. During the registration process, visitors can provide their personal and contact information, along with their current photo, which is then verified at the Main Gate by the Security Guard Officer. Reports provide the college with valuable information on visitor activity. Dashboards presenting insights about the classification of visitors through illustrations and reports are also a major component of the project. Finally, the support of using web app in the mobile interface can help to provide a comprehensive security solution for the college.

**Modules:**

* ***Admin module***

This module will be used and operated by the Security Guard office at the university’s Main gate. This module would contain 2 Pages,

1. Visitor Entry Approval - The Security Guard can approve or reject the request made by the Visitors for College Entry. Only after approval can the Visitor get a virtual visitor pass, which permits them entry into the college.

2. Entries - Here they can check all the people who have entered the College along with their details.

* ***Visitors module***

This module will be used by the Visitors who are coming to our college. A QR code redirecting to this webpage will be placed on a board near the Main Gate Entrance. A visitor coming to the university be it for the fest, Alumni, Parents, Enquiry purposes need to scan this QR code and make an entry on the app giving every detail about them along with their Photo (captured via the camera). After this process is completed and details submitted, it will get reflected in the security guard’s tab for approval.

* ***Faculty module***

This module will be used by all the working College faculty. The faculty member can send a request to the Main Gate that they are expecting a person for this certain purpose. It should also be noted that the people who visit by faculty request need to bring some kind of Physical ID proof for name approval, as their entries can’t be made by themselves so we need some ID verification to be done.

* ***Dashboard module***

This module will be used by the Admin. This module will basically reflect the analysis of all the people who have visited during any selected period of time and for what purpose. This is basically to get a report of all the people visiting the unversity in a graphical manner. This enables an easy understanding of the various attributes and provides the generation of reports.

* ***Vehicle Entry Module***

This module will be used by people who are coming via vehicles to our campus via 2-wheeler or 4-wheeler. In this module, the driver of the vehicle needs to make an entry about the number of people visiting and everyone’s respective details, along with the license number (which is the main identifier). A visitor’s pass will be generated based on the license number. A mechanism to validate the max number of Vehicles allowed for visitors inside the campus on the basis of parking can also be done.

* ***Check-Out module***

This module will be used by the visitor for their check out. In this module basically there will be a QR Code placed at the entrance beside Entry QR Code, scanning which they can check out from the college.

* ***Navigation Module***

This module will be used by the visitor. The module will help guide the visitor to the primary location mentioned by them during registration. This module will basically use Christ Map and show them the path to their destination.

**Existing System and Disadvantages**

Currently, there is no such digitalized system for our university. When any visitor comes, they need to make a manual entry at the college's main gate in a record book which takes details like name, phone, and signature only. This is a very inefficient and insecure mode of data collection. In the event that a visitor needs to be recognized, we do not have much information about them for security purposes.

**Disadvantages**

1. Inaccuracy and redundancy: The current system is prone to human error, leading to inaccuracies in data entry and record-keeping.
2. Inefficiency: The current system is time-consuming and slow, requiring manual data entry, and retrieval can be difficult and time-consuming.
3. Lack of security: The current system lacks the security features of a database, making it easier for sensitive information to be lost, stolen, or altered.
4. Limited data analysis: Paper-based systems do not offer the ability to easily analyze or generate reports from the data collected.
5. Scalability: Current system is not easily scalable, making it difficult to accommodate growth or manage larger amounts of data.

**Proposed System and Advantages**

The proposed system is to create a digitalized data management system for visitors. This will help to manage the flow of visitors on campus and ensure that they are properly vetted and tracked while they are on the premises. The app can include features such as registration, identity verification, reporting and analytics, integration with other security systems, and mobile web app support. During registration, visitors provide their personal and contact information, along with their current photo, which is then verified at the Main Gate by the Security Guard Officer. Upon approval by security, a visitor pass is created for the person(s). After entering there also will be a Navigation feature that will help guide the visitor to the primary location mentioned by them during registration. This module will basically use Christ Map and show them the path to their destination.

**Advantages:**

1. Improved security: The Web app helps to verify the identity of visitors, control their access to specific areas, and maintain a record of their activity on campus, improving the overall security of the college.
2. Efficient and streamlined process: The Web app can automate many tasks, such as pre-registration and identity verification saving time and improving efficiency for college staff.
3. Accurate visitor tracking: The Web app maintains a record of all visitors, including their personal and contact information, allowing for accurate tracking of visitor activity on campus.
4. Increased visibility: The Web app generates reports and analytics, providing colleges with valuable insights into visitor activity and helping to improve security measures.
5. Improved visitor experience: With features such as mobile app support, the Web app can improve the overall visitor experience by reducing wait times, providing real-time updates, and streamlining the process of managing visitors.