**Computerized Barangay Resident Record Management System**

The main purpose of this system is to manage the entire Barangay information including their area residence. The clients will be the Barangay officials who works in their particular Barangay. This system hopes to enhance the way of managing, issuing certificates and keeping all the residents confidential records. Through this system, this will give ease to a client in order to fasten their job without further paper works to do. This involves; maintain resident’s record as complete and up-to-date and as easily accessible for monitoring and reference purpose based on the available resident’s census data kept by the client Barangay.

Objectives:

1. To easily find the records that’s accurate, complete, accessible and usable.
2. To secure residents confidential records.
3. To provides detailed information about the residents.
4. Stores the entire record of the residents.
5. Fast and easy to locate resident’s record.
6. Provides backup database of all record.
7. Issue certificates/permits and other related records.

**Employees Profile Management System**

The aim of this system is to provide a convenient way of managing employee’s profile and as well as maintaining employee’s record. Through this system, this will enable the administrator to manage the profile of the employees in a fast, accurate and efficient way. The system will let the administrator to maintain their information up-to-date. Through the use of the system, it will be easier to keep the employee’s personal information, knowledge background and technical skills. Furthermore, this will also monitor the performance of an employee such like their working hours (Time-in & Time-out). Also it will determine how much the employee’s monthly payout; salary deduction in absences, and overtime.

Objectives:

1. Manage all of the information of the employee.
2. To easily monitor their performances.
3. To provide time management to the employee.
4. Provides backup database to all employee’s data.
5. To provide administrators a platform to have a faster access to the profile of employees.

**Attendance Monitoring System using QR code**

The aim of this system is to provide an easiest way on checking and monitoring the attendance using QR code. The main users of this system will either be the students or employees. As a student, I have noticed how difficult for a teacher to check the attendance of their students, that’s why, we thought of generating student ID with QR code. Moreover, through the use of this system, the teacher will just scan their ID’s and automatically store the information on its database together with the date and time. This will benefit the teachers especially and those institutions who have large amount of student’s population. This will also save their time and have an adequate time to focus in teaching. On the other hand, we have also discussed that this system is flexible and I think that, this could also benefit the employees of a company or private company. We know that, time is valued to the employees. Through implementing this system with QR code, they will save more time and just focus to their works.

Objectives:

1. To monitor students and employee’s attendance using QR code.
2. To save time in traditional listing of names.
3. Stores the information on the database.

**Public Transportation Ticketing Management System**

Based on monitoring the bus inside bus stand and in order to notify the higher officials about the departure of a bus to the particular place from a lane in time without any delay. If there is a delay a warning is given using an alarm to a bus driver and the officials. Our system keeps the record of passenger’s details, employees (driver) information, as per each bus schedule and track their schedule routes. And destination/s fare. This is monitoring by the Higher Official and it’s done by this system which is installed on the Officials. This makes the official aware of the time departure on each bus from the lane to the particular place. This system also maintains a secure database which can be used for the future purposes.

Objectives:

1. Fast and easily to find the routes.

2. Manage all of the employees (driver) information.

3. Gives you a complete information regarding to the bus route, employee and destination fare.

**COVID-19 Isolated Individual Monitoring & Management System**

The main purpose of this system is to give a systematic data and easily to monitor the isolated individual in the quarantine area. The system can able to monitor their days of isolation and also their current health case. It can provide update to our health workers regarding on the health status, travel history and contact person of the isolated individual by providing systematic list and updates. Moreover, it can provide a data regarding on the availability and unavailability of the quarantine facilities.

Objectives:

1. Provide a systematic data of the isolated individuals in the quarantine area.
2. It helps the health worker to easily monitor the health status of the isolated individuals.
3. To give data about the travel history and contact persons of the isolated individuals.
4. To provide information regarding on the availability of the isolation room.