Barangay System

# Project Client

Abner A. Arrieta Jr. Director, Strategic Initiatives

# Project Members

Kamila Lagman Project Manager  
Jhonel Deluna Project Developer  
David Warren Arcellana Project Developer  
Daren Mar Cabral Project Developer  
Christian Ansel Sevilla Project Developer

# Introduction

**1**. **Purpose and Description**  
 - The purpose of the Barangay System is to make sure of the efficiency because it will transform the old system into automated system. All the basic services of the barangay will be automated and all the data will be more secured and authentic.

**2.** **Objective  
 -** The objective of the system is to ensure efficiency and security. The application will be handled by the barangay officials and it will used by the masses. In case of transaction part will be on the barangay premises because if the requested document has a cost, the citizen will literally proceed to the barangay to receive his/her requested file and to pay for specific amount.

**3. Scope and Limitation**  
 - The main process of the system is to collect information or data from the citizen who will be register and automatically display the standard format of registration form. The bulletin feature is to inform the citizens what are the events, news, tips, and updates of the specific barangay, also the system has the capability to give inform in health, documents and education.

- According to the client that the Barangay System would be general or applicable to most barangays therefore, the major activities of the system would focus only in information, education, and health. It requires also a mobile and a web based application. The activities of the system is getting data from the citizen to give them privilege in every service that the barangay offers.

# Review of Related Literature/System

Our barangay system is a generic system which means it is applicable to most barangays in the Philippines. The system is flexible for those barangays who have their own device. They can use our system to have data integrity and they can add many services that there barangay provides. This system is relation to Communitech of Barangay West Rembo Makati.

# Technical Background

**1.** **Software** **Environment**  
 - Cobalt is a web-based code generator and framework using PHP and Oracle Database, created by JV Roig. It is a code generator, so it is capable of producing a complete working system based on the information you feed it (data dictionary and a few miscellaneous data for certain special cases). It is also a framework. This means it contains functions that allows to create applications much easier and faster than if you were to start from scratch.

The basic idea behind Cobalt is redundant development tasks (like creating "add/edit/delete/view" modules) should be done automatically so that we can have more efficient use of our time. Instead of spending 70% of our time working on redundant parts of the system, we should just spend a minimal amount of time on them by letting a code generator do most of the redundant work for us. This way, we focus most of our energies on the really important parts of system development: the system design, special modules, and the reports.

**2. Hardware Environment  
 -** The system will be applicable to all devices like laptop, desktop, mobile phones and tables, as long as there is an internet connection and web browser.

**3. Programming language   
 -** We make use of HTML, CSS, and PHP