

Barangay registry of aplaya

A Research Paper Presented to the

Computer Studies Department

Xavier University–Ateneo de Cagayan, Cagayan de Oro City

In Partial Fulfilment of the Requirements in

Object- Oriented Programming

by

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# Introduction

Section 394 (d) (6) of the Local Government Code Memorandum Circulars Nos. 2005 – 69 – 134 and 2008 – 114 dated July 21, 2005 provides that the Barangay Secretary is mandated to maintain, update and keep records of inhabitants in the barangay. The maintenance and updating of the list of inhabitants is necessitated by the call of the times and the need to formulate an efficient system of keeping the records of the inhabitants in all the barangays in the country. This needs to be done for the following purposes: (1) for easy identification of inhabitants; (2) as a tool for planning, and (3) as updated reference in the number of inhabitants in a specific barangay.

Thus, this study proposed Barangay Registry System for Barangay Aplaya, Municipality of Jasaan that will give safer storage, fast retrieval, maintains reliability and accuracy, and faster tracking of files. Proposing a system for the records will be useful to the staff, from hand written records and manual issuing of barangay clearance, certificates and other barangay issuance.

# Requirement analysis

Functional Requirements:

1. A 2005 mandate by DILG required all barangays to keep an RBI (Registry of Barangay Inhabitants). The system to be build should be able to keep all information that was required into a database.
2. The database will also serve as the starting point of all barangay transactions like issuance of certificates and clearances as well as recording of blotters and complaints. A client of the barangay needs to have records in the database before a document can be released.
3. 2 computers, 4 users. The barangay has only 4 people sharing 2 computers. The Secretary, Treasurer, and their assistants. They will have their own accounts. The barangay Captain and Kagawad, and other officials will not be given accounts since they don’t use the computers and generally just ask the Secretary/ Treasurer to do computer- related tasks.
4. Residents may be linked to a household.
5. Households belong to Zones (Purok).

Non- Functional Requirements:

1. The graphical user interface must be intuitive and should require very little training.
2. Runs on Windows 7 -32bit.

# Use- case analysis

A screenshot of a cell phone

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# class diagram

# sequence diagram

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**Create Resident**

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**Delete Resident**

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Description automatically generated

**Create Request**

**Add Resident to Household**

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**Create Incident Report**

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Description automatically generated

**Create Zone**

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Description automatically generated

**Create Family**

**Create Household**

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Description automatically generated

**Record Clearance Issuance**

**Record Permit Issuance**

A screenshot of a computer

Description automatically generated

**Record Certificate Issuance**

# API

# APPENDIX

## A screenshot of a computer Description automatically generatedAppendix 1: Database Documentation