



Cemetery Management System

A Research Paper presented to

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BSIT 2 - 2

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ABSTRACT

1.1 Project Description

Death will come upon every person at a certain time. The Cemetery Management System allows easy plot management of the deceased in a cemetery. It will help the cemetery management to see available plots for new burial, searching where the plot of the deceased, manage leases plots, transferring of the deceased, and adding new plots depending on space availability in the cemetery.

Advantages and perks of the system:

- **Digitalization of Data and Allowing Efficient Data Access** – The system allows the less use of papers which prevents slower productivity. Having the data being digitized, data will be easier to obtain.
- **Managing Records** – A cemetery with a large capacity will have a lot of records. The system allows easy management of records and assures that the data will be secure and safe.

1.2 Objectives

1.2.1 General Objective

The system aims to create a better transaction and management of plots in a cemetery.

1.2.2 Specific Objectives

- Allow clients to see a better way of availability of plots.
- Create a system that can store plot information such as availability, type, and location for management.
- Easily search name of the cadaver upon request of visiting clients.

1.3 Scope and Limitation

The creation of the system will only cover the management of plots in the cemetery. Other features such as maintenance and billings will not be covered in the system. As stated in the specific objectives, the system will concentrate on storing, searching and creating plots information, better ways to view the availability of plots for clients who are planning to buy or lease a plot, and managing lists of the deceased that are in the cemetery. The system is solely intended to be used by cemetery management.

1.4 Statement of the Problem(s)

Death is inevitable to humans. Their time will eventually come to an end. Per day in the Philippines, there are around 1,677 deaths before the pandemic. Using Manila North Cemetery as an example, there are a million that are buried in a very limited space. There may be a lot of untended graves that are very old. These spaces are wasted; newer deceased could have used the spaces.

1.5 Proposed Solutions

Documenting already occupied plots and available plots digitally will be the best solution to manage the plots in a cemetery. This solution can determine plots that have seen no activity in the space for an extended period of time. It will increase the availability of plots for newer burials. This will also include different features like a search directory of the deceased to locate where they are buried in, create new plots from available space with no existing plots, transfer, and remove data of the deceased.

1.6 Activity Plan

1.6.1 Planned Activities

- Ideate the project concept
- Brainstorm what language to use as backend and application to use in the database
- Create the project
- Documentation

1.6.2 Assignments/Tasking

- Ideate the project concept - All
- Brainstorm what language to use as backend and application to use in the database - All
- Create the project - Borzon, Diok, Sadullo
- Documentation - All

1.6.3 Schedule of Activities

- 1st - 2nd Week: Research
- 2nd - 3rd Week: Brainstorm what language to use as backend and application to use in the database
- 3rd - 4th Week: Create the project
- 1st - 4th Week: Documentation

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INTRODUCTION

Death will come upon every person at a certain time. The Cemetery Management Database System allows easy plot management of the deceased in a cemetery. The Database System will aid every department in completing the services like seeing available plots for new burial, searching where the plot of the deceased, manage leases plots, transferring of the deceased, and adding new plots depending on space availability in the cemetery.

CHAPTER 1 - ORGANIZATION ANALYSIS

Company Background

The funeral home is an important part of any community. In addition to providing a variety of necessary services to the community such as burial and memorial services, funeral homes also serve as resources for those grieving the loss of a loved one. When it comes time to make the decision regarding the funeral home you will trust to care for a loved one or to take care of your pre-planning arrangements, Gateway Heaven offers a quality service that will surely exceed your expectations. Providing professional opportunities for its employees and business partners to maintain high standards of professionalism, integrity, and business ethics in all its dealings in the community. It supports the local government in its social and economic programs for the welfare of the Filipino people.

Vision

With deeply embedded Filipino values, we are the ideal final resting place in the country, offering solace and care to our clients during their difficult moments by replicating the culture's traditional emphasis on close family ties and giving the finest level of service.

Mission

Gateway Heaven is committed to:

- Give the city's citizens and those of the adjacent communities access to the greatest, cleanest, and most advanced memorial park available.
- In all of its interactions with the community, uphold the highest levels of professionalism, integrity, and corporate ethics.
- By offering possibilities for professional growth and other aspects of development, take care of the wellbeing of its staff and sales representatives.

Strategic Thrusts and Programs (Strategic Plan/Goals)

GOAL 1: LICENSING

In order to protect the public and ensure that only qualified individuals enter the workforce, Gateway Heaven enforces licensing standards.

- 1.1 Plan for online licensure and evaluate current business processes before implementing any changes.
- 1.2 In order to ensure that Gateway Heaven develops relevant examinations, it is important to increase licensed participation in examination development.

GOAL 2: ENFORCEMENT

Gateway Heaven keeps customers safe by following the rules and laws that govern the profession.

- 2.1 Figure out if it would be possible to set up a case management system to make the staff more effective and efficient.
- 2.2 Look at audit staffing needs and take care of them to protect consumer trust funds.
- 2.3 Encourage people in Gateway Heaven to talk to each other and work together so that the Cemetery and Funeral Act is understood and used in the same way by everyone.

GOAL 3: LEGISLATION, REGULATIONS, AND POLICY

Gateway Heaven makes laws, follows rules, and comes up with policies that support and strengthen its mission and mandate.

- 3.1 Review and update the rules for punishment at Gateway Heaven so that enforcement actions are more consistent and in line with the Cemetery and Funeral Act.
- 3.2 Set up rules for alkaline hydrolysis and the unitrust method of distribution to meet legal requirements.
- 3.3 Look over, evaluate, and change rules as needed to make them clear and consistent.

GOAL 4: OUTREACH

Gateway Heaven tells consumers, licensees, and other stakeholders about how the profession is practiced and how it is regulated.

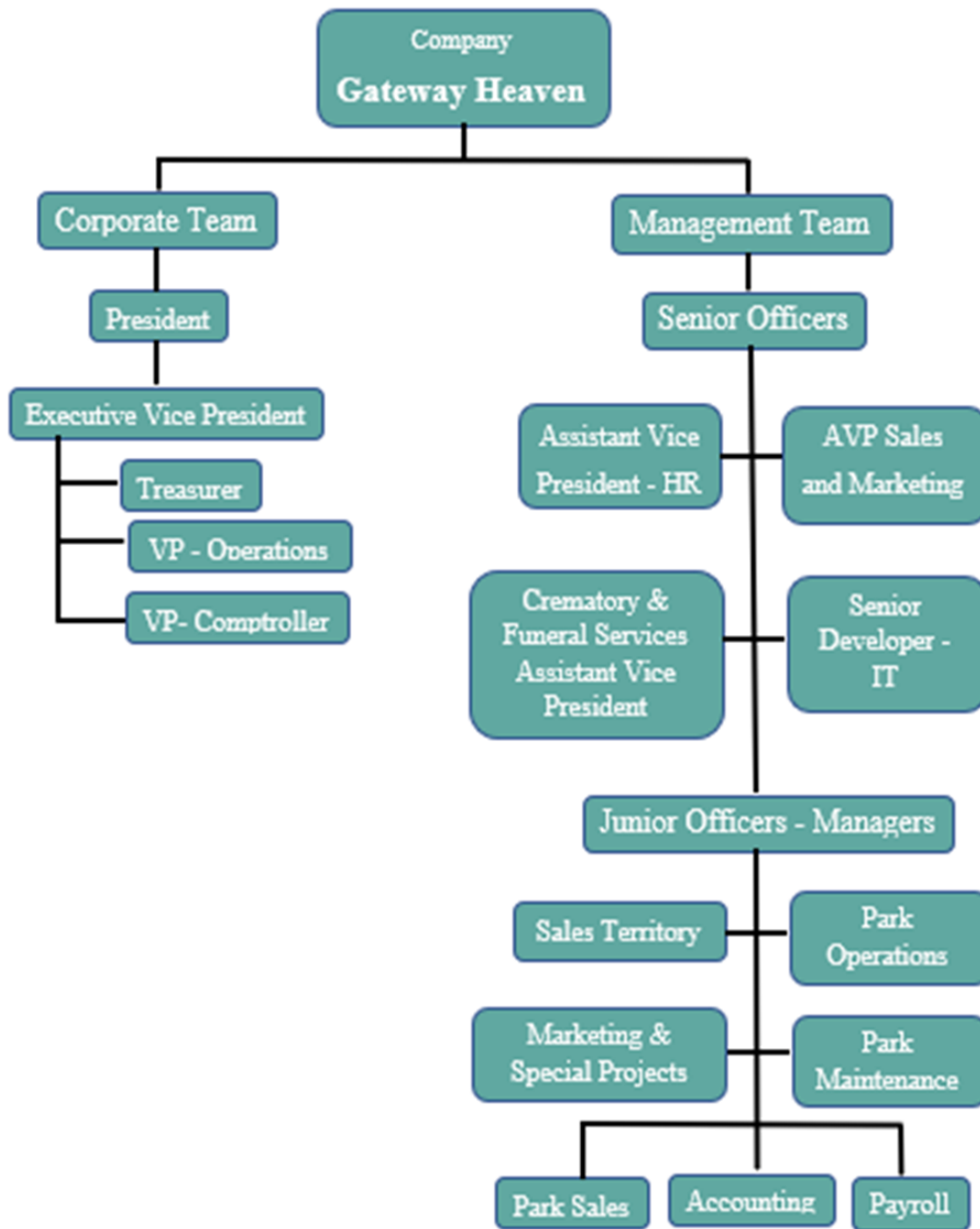
- 4.1 Talk to outside stakeholders to encourage them to work together to help protect consumers.
- 4.2 Work with the Department's Office of Public Affairs to make a plan for reaching out to people in many different ways.
- 4.3 Talk to licensees to make sure they know more about the Cemetery and Funeral Act and follow it.

GOAL 5: ADMINISTRATION

Gateway Heaven builds an excellent organization through proper governance, effective leadership, and responsible management.

- 5.1 Collaborate with the Department to evaluate Gateway Heaven's technology needs to modernize business practices.
- 5.2 Advance the needs identified by the fee study to help ensure Gateway Heaven solvency.
- 5.3 Explore staffing needs to increase Gateway Heaven's efficiency and effectiveness to support its mandate.
- 5.4 Explore alternatives for records management to modernize and improve accessibility of records.

Organizational Chart



Gateway Heaven Corporate and Management Team

Present ICT Situation

Some companies that are offering funeral services have an official website and a Facebook page showing frontline services and available products to the user and each branch also has its own Facebook page. They also have their own website that provides information about their products and services as well as information about them. It shows their parks which are the different branch locations and the types of property. One company has virtual tours in which the user can visit the cemetery through YouTube, Google Map and their own virtual tour tool, and also has a blog site containing inspirational messages in which the purpose is to advertise the company's services and products.

Strategic Concern for ICT Use

Proposed Project

Name/Title: Cemetery Management System

Brief Description:

This system will contain the list of information of interment that includes the basic information of an interment (name, date of birth, date of death, and date of interment) and the information of lots and properties including their location and availability.

Information Systems Covered:

- Hardware: Desktop
- Database: SQLite
- User Interface: Python Tkinter

CHAPTER 2 - INFORMATION SYSTEMS STRATEGY

Description of Database

Database: Property
Purpose & Content: This is the product of the company where payment from the clients will be processed. Its contents are the types of the property along with the prices.
Information System: Front Desk
Store/Preserve Data: Data will be stored in a Relational Database Management System (RDBMS) through the use of Structured Query Language (SQL) and data will be stored in simple tables.

Database: Owner
Purpose & Content: This is the client who produces money in the process of payment in the system and the identifier of the property if it is owned or not. Its contents are the personal information of the owner and the payment and billing status.
Information System: Front Desk
Store/Preserve Data: Data will be stored in a Relational Database Management System (RDBMS) through the use of Structured Query Language (SQL) and data will be stored in simple tables.

Database:

Deceased
Purpose & Content: This is the essence of the company in terms of its services. Its content is the personal information of the deceased including the date of birth and death.
Information System: Front Desk
Store/Preserve Data: Data will be stored in a Relational Database Management System (RDBMS) through the use of Structured Query Language (SQL) and data will be stored in simple tables.

Database: Interment
Purpose & Content: This is the main process of the system which is the scheduling of an interment of the newly deceased. Its contents are the requirements on how to schedule an interment, as well as the time and date of the particular interment.
Information System: Front Desk
Store/Preserve Data: Data will be stored in a Relational Database Management System (RDBMS) through the use of Structured Query Language (SQL) and data will be stored in simple tables.

Database: Bill
Purpose & Content: This is the importance of having a payment process in the system. Its contents are the billing number which is the identifier and the amount of the bill.
Information System: Accounting
Store/Preserve Data: Data will be stored in a Relational Database Management System (RDBMS) through the use of Structured Query

Language (SQL) and data will be stored in simple tables.
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Database:

Area

Purpose & Content:

This is the location of different properties in the cemetery. Its contents are the particular room and cluster of each property.
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Information System:

Front Desk & Park Maintenance

Store/Preserve Data:

Data will be stored in a Relational Database Management System (RDBMS) through the use of Structured Query Language (SQL) and data will be stored in simple tables.

Database:

Lot

Purpose & Content:

This is the list of available lots to be bought as a property in the area. Each lot is assigned in an area depending on its type, but can be available or be a property of a client of the cemetery

Information System:

Front Desk & Park Maintenance

Store/Preserve Data:

Data will be stored in a Relational Database Management System (RDBMS) through the use of Structured Query Language (SQL) and data will be stored in simple tables.

Database:

Property Plan

Purpose & Content:

This is the blueprint of owners in availing properties. Its contents are the payment methods in availing properties from the property plan, its capacity and its price.

Information System:

Marketing

Store/Preserve Data:

Data will be stored in a Relational Database Management System (RDBMS) through the use of Structured Query Language (SQL) and data will be stored in simple tables.

Database:

Interment Plan

Purpose & Content:

This is the blueprint of owners when planning on scheduling an interment. Its contents are the types of interment depending on the type of property the deceased will be interred and if it's the first time or not. The price will vary whether the deceased is the first or the succeeding one interred in the property.

Information System:

Marketing

Store/Preserve Data:

Data will be stored in a Relational Database Management System (RDBMS) through the use of Structured Query Language (SQL) and data will be stored in simple tables.

List of Forms and Reports

FORMS

Form Name	Descriptions	User
Create Annual Billings	Annual billing for property owners in the cemetery	Cashier (Cemetery Office)
Annual Billing Payment	Way for owners to pay their annual billings	(Cashier) Cemetery Office
Schedule an Interment	Form for informants to schedule an interment for their deceased loved ones	(Front Desk) Cemetery Office
Interment Payment	Way for informants pay for their scheduling of interment	(Cashier) Cemetery Office

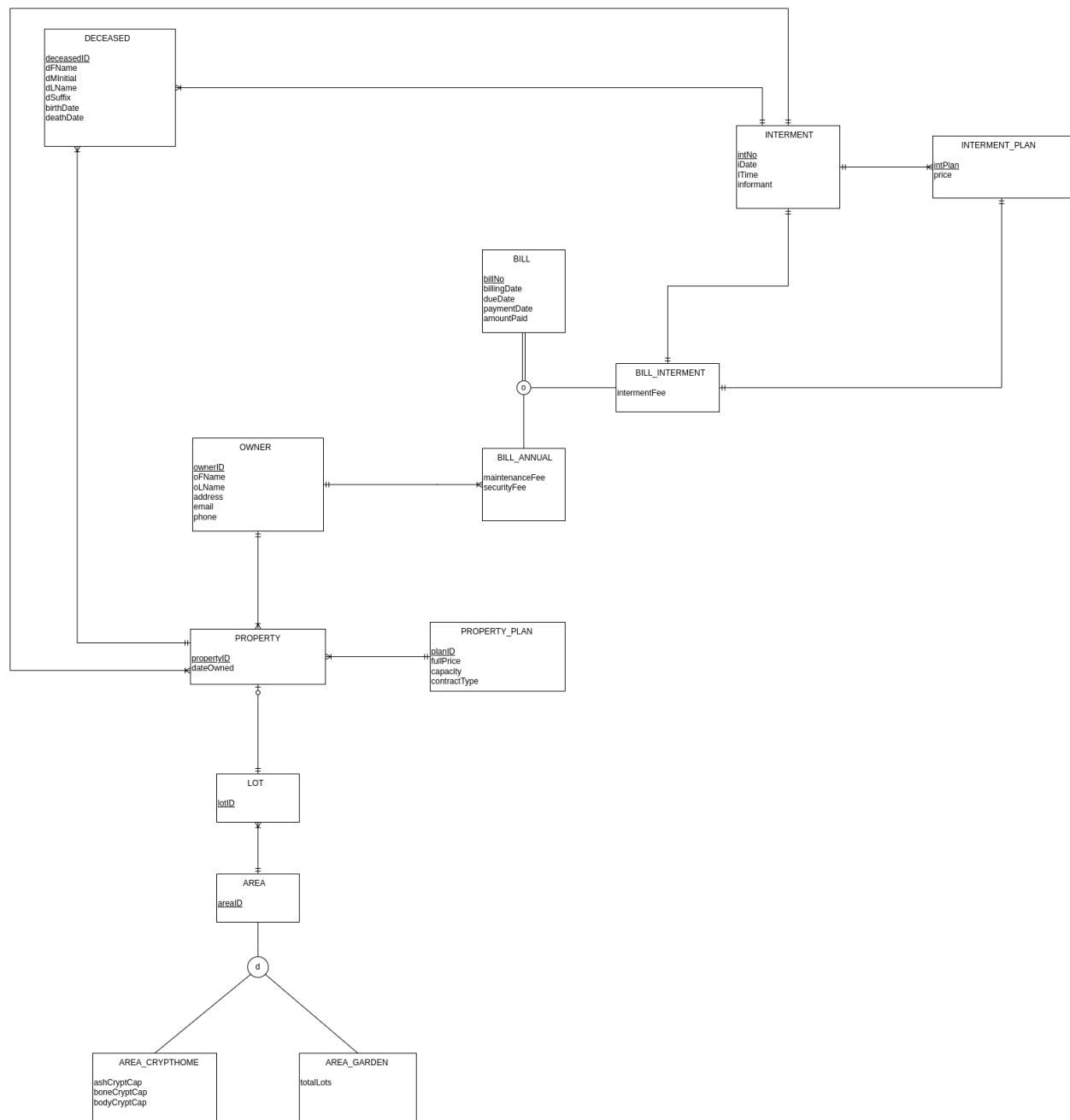
REPORTS

Form Name	Descriptions	User
View Upcoming Interments	Shows lists of upcoming scheduled interments	(Front Desk, Interment Services) Cemetery Office
View Property List	Brief details of a property	(Front Desk, Maintenance)Cemetery Office
View Annual Billings	List of Annual billings of property owners in the cemetery	(Accounting) Cemetery Office
View Interment Billings	List of interment Billings of informants that scheduled an interment in the cemetery	(Front Desk, Interment Services) Cemetery Office
View List of Deceased	List of deceased	(Front Desk) Cemetery Office

Business Rules

- Crypt Homes and Gardens are areas available for interments. Crypt Homes are exclusively for crypt-only property and Gardens are for other types of property.
- Gardens have interments exclusive for specific garden property and single ash urn burial.
- Ash urns have a burial area for single interment and have crypts that can hold four urns each.
- Single ash urn burials have a five-year lease.
- There are also available bone crypts and full body crypts. Per crypt, it holds one of its types.
- All types of crypts have a five-year lease and share one home.
- Lawn lots have their own garden and occupy one lot. Regular level can hold one full body interment. Below regular level can also hold a full body interment or a bone crypt. Regular level must be occupied first before below. A lawn lot has a ten-year lease.
- Upon buying a property, the owner must provide their first name, last name, address, email, and phone number.
- When scheduling an interment, the informant must provide a death certificate of the deceased, and a city permit of interment is required. The first name, last name, birth date and death date of the deceased is used in the interment data. Middle initial and suffix is applicable if the deceased has one of them. The interment date and time is then scheduled. Fees for scheduling and amenities (chairs and tents) in the interment will be paid alongside its type of interment.

Conceptual Framework



CHAPTER 3 - PROTOTYPE

Relational Schema (3NF)

Owner

<u>ownerID</u>	oFName	oLName	address	email	phoneNumber	propertyID	aBillNo
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Deceased

<u>deceasedID</u>	dFName	dMInitial	dLName	dSuffix	birthDate	deathDate	intNo	<u>propertyID</u>
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Interment

<u>intNo</u>	iDate	iTime	informant	intPlan	deceasedID	propertyID	iBillNo
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Property

<u>propertyID</u>	dateOwned	<u>ownerID</u>	<u>planID</u>	<u>deceasedID</u>
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Lot

<u>lotID</u>	<u>areaID</u>	<u>propertyID</u>
--------------	---------------	-------------------

Area

<u>areaID</u>	<u>lotID</u>
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Property Plan

<u>planID</u>	fullPrice	capacity	contractType	<u>propertyID</u>
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Bill

<u>billingNo</u>	billingDate	dueDate	paymentDate	<u>amountPaid</u>
------------------	-------------	---------	-------------	-------------------

Bill Annual

<u>aBillNo</u>	maintenanceFee	securityFee	intNo
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Bill Interment

<u>iBillNo</u>	intermentFee	intNo	intPlan
----------------	--------------	-------	---------

Interment Plan

<u>intPlan</u>	price	intNo
----------------	-------	-------

Crypt Home Area

<u>carealID</u>	ashCryptCap	boneCryptCap	bodyCryptCap
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Garden Area

<u>gareaID</u>	totalLots
----------------	-----------

Table Definition/Data Dictionary

Table Name: owner						
Table Description: Owner information						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	ownerID	Owner's identifier	int	-	Not Null	1
	oFName	Owner's first name	varchar	20	Not Null	Juan
	oLName	Owner's last name	varchar	20	Not Null	Dela Cruz
	address	Owner's address	varchar	150	Not Null	188 Congressional Avenue, Quezon City
	email	Owner's email address	varchar	20	Not Null	juandelacruz@gmail.com

	phone	Owner's phone number	varchar	11	Not Null	09561234567
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Table Name: deceased Table Description: Deceased's information						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	deceasedID	Deceased's identifier	int	-	Not Null	1
	dFName	Deceased's first name	varchar	20	Not Null	Juan
	dMInitial	Deceased's middle initial	varchar	1	Null	R
	dLName	Deceased's last name	varchar	20	Not Null	Dela Cruz
	dSuffix	Deceased's suffix	varchar	5	Null	Jr
	birthDate	Deceased's birthdate	varchar	10	Null	2022/12/31
	deathdate	Deceased's death date	varchar	10	Not Null	2022/12/31

Table Name: interment Table Description: Interment information						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	intNo	Identifier of interment	int	-	Not Null	1
	iDate	Date of interment	varchar	10	Not Null	2022/12/31
	iTime	Time of interment	varchar	7	Not Null	23:00
	informant	Name of informant	varchar	50	Not Null	Juan Dela Cruz

Table Name: property Table Description: Property information						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	propertyID	Identifier of property	int	-	Not Null	1
	dateOwned	Date when owned by owner	varchar	10	Not Null	2022/12/31

Table Name: lot Table Description: Lot information						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	lotID	Identifier of lot	varchar	15	Not Null	Crypt Lot 1

Table Name: area Table Description: Area information						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	areaID	Identifier and name of area	varchar	50	Not Null	Garden of La Famille

Table Name: area_CryptHome Table Description: Crypt Home information						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	cAreaID	Identifier and name of area	varchar	50	Not Null	Crypt Home
	ashCryptCap	Total capacity of ash crypts	int	-	Not Null	3
	boneCryptCap	Total capacity of bone crypts	int	-	Not Null	3
	bodyCryptCap	Total capacity of full body crypts	int	-	Not Null	4

Table Name: area_Garden Table Description: Area information						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	gAreaID	Identifier and name of area	varchar	50	Not Null	Garden of Angels
	capacity	Capacity of area	int	2	Not Null	1

	totalLots	Number of lots available in the area	int	-	Not Null	10
--	-----------	--------------------------------------	-----	---	----------	----

Table Name: bill						
Table Description: Bill Information						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	billNo	Identifier of bill	int	-	Not Null	1
	billingDate	Date of billing	varchar	10	Not Null	2022/12/31
	dueDate	Last day for payment	varchar	10	Not Null	2022/12/31
	paymentDate	Date of payment	varchar	10	Null	2022/12/31
	amountPaid	Paid amount	int	9	Null	900000

Table Name: bill_Interment						
Table Description: Interment Bill Information						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	ibillNo	Identifier of bill	int	-	Not Null	1
	intermentFee	Fee for interment	int	-	Not Null	15000

Table Name: bill_Annual						
Table Description: Annual Bill Information						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	aBillNo	Identifier of bill	int	-	Not Null	1
	maintenanceFee	Fee for maintenance	int	-	Not Null	5000
	securityFee	Fee for cemetery security	int	-	Not Null	5000

Table Name: propertyPlan Table Description: Information of property plan						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	planID	Identifier of plan	varchar	50	Not Null	Ash Urn Burial
	fullPrice	Full price of property	int	-	Not Null	1
	capacity	Capacity of property plan	int	-	Not Null	1
	contractType	If lease or full ownership	varchar	15	Not Null	10 Years

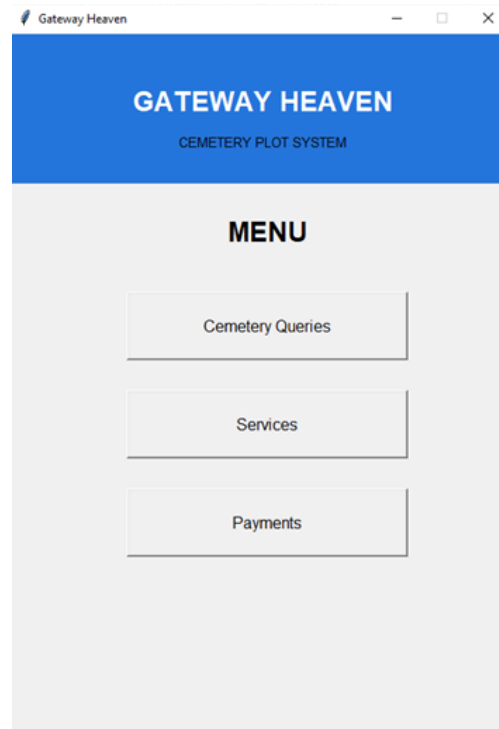
Table Name: intermentPlan Table Description: Information of property plan						
id	Field	Description	Data Type	Length	Allowed Null	Sample Data
*	intPlan	Identifier of plan	varchar	50	Not Null	Ash Urn Burial
	price	Price of interment	int	-	Not Null	1

Screen Design

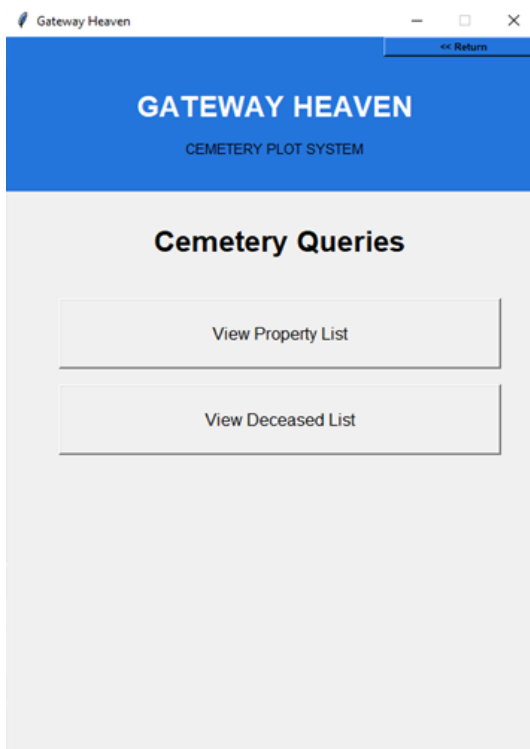
Screen component of the system is shown in this portion of the report. This includes the layout of each screen and the navigation diagram to illustrate how the screens can be accessed

Main Menu

- Cemetery Queries
- Services
- Payments



MM : Cemetery Queries



Cemetery Queries

- View Property List
- View Deceased List

CM: Property List

View Property List

GATEWAY HEAVEN

CEMETERY PLOT SYSTEM

Property List

Client Last Name

Search

Reset Table

Lot	Area	Property ID	Plan Type	Owner First Name	Owner Last Name
Crypt Lot 1	Crypt Home	3	Bone Crypt	Daisy	Cuevas
Crypt Lot 2	Crypt Home	4	Ash Crypt	Emma	Valdez
Crypt Lot 3	Crypt Home	5	Full Body Crypt	Christine	Duarte
Crypt Lot 4	Crypt Home	---	---	---	---
Crypt Lot 5	Crypt Home	---	---	---	---
Crypt Lot 6	Crypt Home	7	Bone Crypt	Herbert	Gonzales
Crypt Lot 7	Crypt Home	---	---	---	---
Crypt Lot 8	Crypt Home	---	---	---	---
Crypt Lot 9	Crypt Home	---	---	---	---
Crypt Lot 10	Crypt Home	---	---	---	---
Ash Burial 1	Garden of Vessel	1	Ash Urn Burial	Matteo	Bernardo
Ash Burial 2	Garden of Vessel	---	---	---	---
Ash Burial 3	Garden of Vessel	---	---	---	---
Ash Burial 4	Garden of Vessel	---	---	---	---
Ash Burial 5	Garden of Vessel	---	---	---	---
Ash Burial 6	Garden of Vessel	---	---	---	---
Ash Burial 7	Garden of Vessel	---	---	---	---
Ash Burial 8	Garden of Vessel	---	---	---	---

CM: View Deceased List

Deceased List

GATEWAY HEAVEN

CEMETERY PLOT SYSTEM

View Deceased List

Deceased List

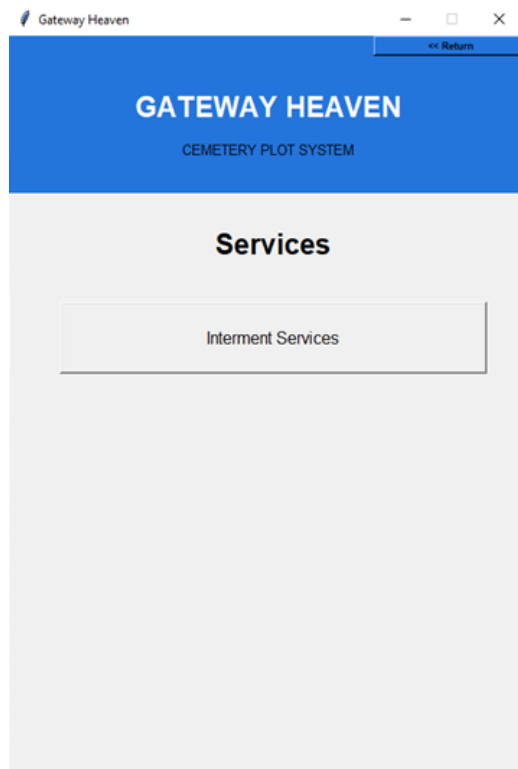
Last Name

Search

Reset Table

Deceased Name	Date of Death	Lot	Area
Dong Yoo	2021/01/10	Lawn Lot 1	Garden of Angels
Ding Yoo	2021/2/14	Lawn Lot 1	Garden of Angels
Jose Luna	2021/2/20	Crypt Lot 1	Crypt Home
Juan Dela Cruz	2021/3/9	Ash Burial 1	Garden of Vessel
Carlo Dalisay	2021/5/10	Lawn Lot 10	Garden of Angels
Juan Lee	2021/5/20	Crypt Lot 3	Crypt Home
Lili Valdez	2021/6/2	Crypt Lot 2	Crypt Home

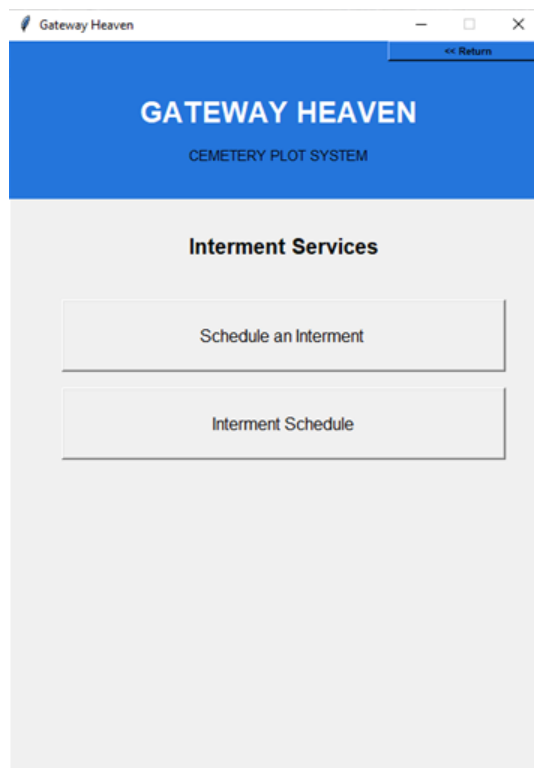
MM: Services



Services

- Interment Services

S: Interment Services



Interment Services

- Schedule an Interment
- Interment Schedule

IS: Schedule an Interment (1st Screen)

Schedule An Interment

GATEWAY HEAVEN

CEMETERY PLOT SYSTEM

Schedule An Interment

Select a Property

Client Last Name

Enter Last Name

Search

Select

Reset Table

Lot	Area	PropertyID	Property Type	Owner ID	Capacity	Deceased
Crypt Lot 1	Crypt Home	3	Bone Crypt	3	1	Jose Luna
Crypt Lot 2	Crypt Home	4	Ash Crypt	4	4	Lili Valdez
Crypt Lot 3	Crypt Home	5	Full Body Crypt	5	1	Juan Lee
Crypt Lot 4	Crypt Home	---	---	---	---	---
Crypt Lot 5	Crypt Home	---	---	---	---	---
Crypt Lot 6	Crypt Home	7	Bone Crypt	7	1	---
Crypt Lot 7	Crypt Home	---	---	---	---	---
Crypt Lot 8	Crypt Home	---	---	---	---	---
Crypt Lot 9	Crypt Home	---	---	---	---	---
Crypt Lot 10	Crypt Home	---	---	---	---	---
Ash Burial 1	Garden of Vessel	1	Ash Urn Burial	1	1	Juan Dela Cruz
Ash Burial 2	Garden of Vessel	---	---	---	---	---
Ash Burial 3	Garden of Vessel	---	---	---	---	---
Ash Burial 4	Garden of Vessel	---	---	---	---	---
Ash Burial 5	Garden of Vessel	---	---	---	---	---

Next

IS: Schedule an Interment (2nd Screen)

Schedule An Interment

GATEWAY HEAVEN

CEMETERY PLOT SYSTEM

Schedule An Interment

Deceased Details

Last Name

First Name

Middle Initial

Suffix

Birth Date (MM/DD/YYYY)

Date of Death (MM/DD/YYYY)

1

1

1900

1

1

1900

Back

Next

IS: Schedule an Interment (3rd Screen)

Schedule An Interment

GATEWAY HEAVEN

CEMETERY PLOT SYSTEM

Schedule An Interment

Scheduling Details

DATE

1

Month

1

Day

2022

Year

TIME

0

Hour

:0

Min

Deceased Name	Burial Type	Date of Interment	Time
Dong Yoo	Lawn Burial	2021/1/22	10:00
Ding Yoo	Lawn Burial	2022/2/20	13:00
Jose Luna	Inurnment	2021/3/1	14:00
Juan Dela Cruz	Interment of Ashes	2021/3/30	10:00
Carlo Dalisay	Lawn Burial	2021/5/15	12:00
Juan Lee	Interment of Casket	2022/6/1	15:00
Lili Valdez	Inurnment	2021/6/10	11:00

Enter Informant Name

Select Interment Type

Transaction Date

1

Month

1

Day

2022

Year

Back

Next

IS: Schedule an Interment (4th Screen)

Schedule An Interment

GATEWAY HEAVEN

CEMETERY PLOT SYSTEM

Schedule An Interment

PROCESS FINISHED

Close

IS: Interment Schedule

View Scheduled Interments

GATEWAY HEAVEN

CEMETERY PLOT SYSTEM

View Scheduled Interments

Interment Details

Deceased's Last Name

Search

Reset Table

Deceased Name	Burial Type	Date of Interment	Time
Dong Yoo	Lawn Burial	2021/1/22	10:00
Ding Yoo	Lawn Burial	2022/2/20	13:00
Jose Luna	Inurnment	2021/3/1	14:00
Juan Dela Cruz	Interment of Ashes	2021/3/30	10:00
Carlo Dalisay	Lawn Burial	2021/5/15	12:00
Juan Lee	Interment of Casket	2022/6/1	15:00
Lili Valdez	Inurnment	2021/6/10	11:00
Bob Go	Lawn Burial	2023/4/11	10:15

MM: Payments

Gateway Heaven

GATEWAY HEAVEN

CEMETERY PLOT SYSTEM

Payments

Service Payments

Billings

Payments

- Service Payments
- Billings

P: Service Payments

Gateway Heaven

Return

GATEWAY HEAVEN

CEMETERY PLOT SYSTEM

Service Payments

Interment Payments

Service Payments

- Interment Payments
- Others

SP: Interment Payment

Interment Payment

GATEWAY HEAVEN

CEMETERY PLOT SYSTEM

Interment Payment

Informant's Name

Search

Informant's Name	IntNo.	Int Type	Bill No.	Due Date	Payment Date	Fee (Php)
Yoo Seji	1	Lawn Burial	1	2021/1/10	2021/1/10	50000
Yoo Seji	2	Lawn Burial	2	2021/2/10	2021/2/10	50000
Juan Luna	3	Inurnment	3	2021/2/25	2021/2/25	18000
Juana Dela Cruz	4	Interment of Ashes	4	2021/3/20	None	17500
Coco Martin	5	Lawn Burial	5	2021/5/11	None	50000
Tres Lee	6	Interment of Casket	6	2021/5/25	None	30000
Victor Valdez	7	Inurnment	7	2021/6/2	None	18000
Clyde Santiez	8	Lawn Burial	8	2021/1/21	2021/1/19	50000

SelectReset Table

Payment Date (MM/DD/YYYY)

112019

Total Fee:

0

Done

P: Billings

Gateway Heaven

<< Return

GATEWAY HEAVEN
CEMETERY PLOT SYSTEM

Billings

Create Annual Billing

Annual Billing Payment

Billings

- Create Annual Billing
- Annual Billing Payment

B : Create Annual Billing

Create Billing

— □ ×

GATEWAY HEAVEN
CEMETERY PLOT SYSTEM

Create Annual Billing

Last Name

Search

O.ID	First Name	Last Name	P.ID	Date Owned
1	Matteo	Bernardo	1	2020/01/21
2	Juan	Villanueva	2	2020/03/02
3	Daisy	Cuevas	3	2020/04/10
4	Emma	Valdez	4	2020/06/07
5	Christine	Duarte	5	2020/07/23
6	Owen	Ramos	6	2020/10/10
7	Herbert	Gonzales	7	2020/11/08

SelectReset Table

Billing Date (MM/DD/YYYY)

112019

Due Date (MM/DD/YYYY)

112019

Create

B : Annual Billing Payment

Billing Payment

GATEWAY HEAVEN

CEMETERY PLOT SYSTEM

Annual Billing Payment

Last Name

Search

O.ID	Name	B.ID	Billing Date	Due Date	Payment Date	Balanced Due
1	Matteo Bernardo	8	2020/12/21	2021/1/21	2021/1/19	4500
2	Juan Villanueva	9	2021/2/2	2021/3/2	None	4500

Select

Reset Table

Payment Date (MM/DD/YYYY)

1

1

2019

Total Fee

0

Finsih

Screen Inventory

No.	Name of Screen	Description
1	MainMenu	The Starting and Main Screen where the user can navigate through various commands.
2	PropertyList	This is where the user can view a list of property owned.
3	DeceasedList	This is where the user can view a list of loved ones that have passed on within the burial grounds and crypts.
4	Services	A Menu where the user can pick a specific Service available .
5	ScheduleAnInterment	This is where the user can fill up an information to schedule an interment of a loved one.
6	IntermentSchedules	This is where the user can view a list of upcoming planned interments within the following days.
7	Payments	A Menu where the user chooses a mode related to Payments needs to be handled.
8	ServicesPayments	A Menu where the users can choose a service they plan to pay.
9	IntermentPayments	This is where the user must set a payment date and fee for a scheduled interment.
10	Billings	A Menu where the user chooses a mode related to its Billing Service.
11	CreateAnnualBilling	This is where the user fills up information and chooses a Billing Plan.
12	AnnualBillingPayment	This is where the user fills up information and chooses the Payment date to pay the Billing arranged.

List of Intelligent Queries

Inquiries/Questions (sentence format)	Answer (SQL Statement)
<p>Which of the lots in the areas are available for purchase and lots that are already owned? If already owned, what is the ID of the property, plan type, and the owner's name.</p>	<pre> SELECT lot.lotID, lot.areaID, lot.propertyID, property.planID, owner.oFName, owner.oLName, propertyplan.contractType FROM lot LEFT OUTER JOIN property ON lot.lotID=property.lot LEFT OUTER JOIN owner ON property.ownerID=owner.ownerID LEFT OUTER JOIN propertyplan ON property.planID=propertyplan.planID; </pre>
<p>How many deceased are there in the cemetery? Where are they located?</p> <p>Where can I find my relative? Their name is xxx.</p>	<pre> SELECT deceased.dFName, deceased.dLName, deceased.deathDate, property.lot, lot.areaID FROM deceased INNER JOIN property ON property.propertyID=deceased.propertyID INNER JOIN lot ON lot.propertyID=deceased.propertyID; </pre>
<p>Who is going to have an internment on this day?</p> <p>When is this deceased going to be interned?</p> <p>What time will the internment be?</p>	<pre> SELECT deceased.dFName, deceased.dLName, interment.intPlan, interment.iDate, interment.iTime FROM interment INNER JOIN deceased ON interment.intNo=deceased.intNo; </pre>

<p>How much will the informant need to pay for their schedule of interment?</p>	<pre> SELECT interment.informant, interment.intNo, interment.intPlan, bill.billNo, bill.dueDate, bill_Interment.intermentFee, bill.paymentDate FROM interment INNER JOIN bill_Interment on interment.intNo=bill_Interment.intNo INNER JOIN bill on bill_Interment.iBillNo=bill.billNo; </pre>
<p>Who are the owners that have not paid their annual bills yet?</p>	<pre> SELECT bill_annual.ownerID, owner.oFName, owner.oLName, bill.billNo, bill.billingDate, bill.dueDate, bill_Annual.abillNo, bill_Annual.maintenanceFee + bill_Annual.securityFee, bill.paymentDate FROM owner INNER JOIN bill_annual on owner.ownerID=bill_annual.ownerID INNER JOIN bill on bill_Annual.abillNo=bill.billNo; </pre>

CHAPTER 4 - FINDINGS, CONCLUSION AND RECOMMENDATION

Findings

Data recording and revisiting now follow a more systematic format than in the past. Data deletion and unwanted data removal are both simpler. It is because easy navigation to the information produced and kept within the medium is made possible by the construction and deployment of databases. The established database also assists the user in updating the required information more quickly and effectively. Since artificial intelligence and less inaccuracy are involved, the information seen has become more accurate.

Through thorough analysis of the required features for the completion of the Cemetery management database system, the programmers undergo system issues while connecting to the database and changes are made. Since the project is given a limited time for completion, the programmers have not yet fully met the goal. After a consultation from the project adviser, several changes have been implemented to produce a fully functional database system.

Conclusions

Cemetery plots can cost a lot and are considered as an investment. Many people would start early and invest in a cemetery plot for the coming future. All people will run into death at some point. Also, one of the key factors is that temporary or fragile grave markers may change or disappear as cemeteries and burial grounds get older. Burials were sometimes never marked or were marked in places like hospital cemeteries and potters' fields by temporary wooden or other markers. The researchers believed that with the aid of the proposed cemetery management system, it will be easier to locate graves and help clients properly manage death insurance. Sales, revenues and other financing jobs are made easier for the users which are the organization and the clients.

Recommendations

An update is highly recommended because time passes and so as technology, it will be easier to grow and adapt because the data we receive is erratic and subject to change.

Another essential necessity is that creating a database takes time by giving the researchers and programmers more time allows them to implement new features that will benefit or improve the database more, hence minimizing redundant code and minor server maintenance difficulties, since it requires accuracy and dependability from users and administrators.

Appendixes

Physical Forms

Sell Property to Client Form	
Gateway Heaven	
Client's Name: _____	Email: _____
<small>(First Name)</small>	<small>(Last Name)</small>
Property Details	
Property Type	Crypt Type
<input type="checkbox"/> Single Ash Urn Burial	<input type="checkbox"/> Ash Crypt
<input type="checkbox"/> Lawn Lot	<input type="checkbox"/> Bone Crypt
<input type="checkbox"/> Crypt	<input type="checkbox"/> Full Body Crypt
Area	
<input type="checkbox"/> Crypt Home	
<input type="checkbox"/> Garden of Vessel (for single urn burial)	
<input type="checkbox"/> Garden of Angels 1 (for lawn lots)	
<input type="checkbox"/> Garden of Angels 2 (for lawn lots)	

New Client Form	
Gateway Heaven	
First Name: _____	
Last Name: _____	
Email: _____	
Phone Number: _____	
Address: _____	

Interment Schedule Form

Gateway Heaven

Client's Name: _____ **Email:** _____ **Property ID:** _____
(First Name) (Last Name)

Deceased Name: _____
(First Name) (Middle Name) (Last Name) (Suffix)

Birth Date: _____
(Month) (Day) (Year)

Date of Birth: _____
(Month) (Day) (Year)

Interment Schedule

Month: _____ **Day:** _____ **Year:** _____

Interment Type

- ____ Burial (FOR LAWN LOT ONLY)
____ Interment of Ashes (FOR SINGLE ASH URN BURIAL ONLY)
____ Interment of Casket (FOR FULL BODY CRYPTS ONLY)
____ Inurnment (FOR ASH URN AND BONE CRYPTS ONLY)

Sample Format of Death Certificate

Municipal Form No. 103 (Revised January 1993)						(To be accomplished in quadruplicate)						REMARKS/ANNOTATION 					
Republic of the Philippines OFFICE OF THE CIVIL REGISTRAR GENERAL CERTIFICATE OF DEATH (Fill out completely, accurately and legibly. Use ink or typewriter. Place X before the appropriate answer in items 2, 9, 13, 15, 16, 18, 19, 21 and 23.)																	
Province _____						Registry No. _____											
1. NAME _____ (First) _____ (Middle) _____ (Last)												FOR OCRG USE ONLY Population Reference No. _____ 					
2. SEX 1 MALE 2 FEMALE		3. RELIGION _____		4. AGE A G E 2		a. 1 YEAR OR ABOVE Completed Years _____		b. UNDER 1 YEAR Months _____ Days _____		c. UNDER 1 DAY Hrs/Min/Sec _____							
5. PLACE OF DEATH (Name of Hospital/Clinic/Institution/ House No., Street, Barangay) _____ (City/Municipality) _____ (Province) _____												TO BE FILLED UP AT THE OFFICE OF THE CIVIL REGISTRAR 					
6. DATE OF DEATH (day) _____ (month) _____ (year) _____						7. CITIZENSHIP _____											
8. RESIDENCE House No., Street, Barangay _____ (City/Municipality) _____ (Province) _____						41 _____											
9. CIVIL STATUS 1 Single 3 Widowed 5 Unknown 2 Married 4 Others						10. OCCUPATION _____											
48 _____						49 _____ 50 _____ 51 _____											
MEDICAL CERTIFICATE (For Ages 0 to 7 days accomplish items 11-17 at the back)																	
17. CAUSES OF DEATH _____ Interval Between Onset and Death _____ I. Immediate cause : a. _____ Antecedent cause : b. _____ Underlying cause : c. _____ II. Other significant conditions _____ Contributing to death: _____																	
18. DEATH BY NON-NATURAL CAUSES a. Manner of Death 1 Homicide 2 Suicide 3 Accident 4 Others (Specify) _____ b. Place of Occurrence (e.g. home, farm, factory, street, seam, etc.) _____																	
19. ATTENDANT _____ If attended, state duration: _____ 1 Private Physician 4 None From _____ 2 Public Health Officer 5 Others (specify) _____ 3 Hospital Authority																	
20. CERTIFICATION OF DEATH I hereby certify that the foregoing particulars are correct as near as same can be ascertain and I further certify that I _____ have not attended the deceased have attended the deceased and that occurred at _____ am/pm on the date indicated above.																	
Signature _____ Name in Print _____ Title or Position _____ Address _____ Date _____						REVIEWED BY: _____ Signature over printed name Of Health Officer _____ Date _____											
21. CORPSE DISPOSAL Burial 3 Others (Specify) _____ Cremation				22. BURIAL/CREAMTION PERMIT Number _____ Date Issued _____				23. AUTOPSY 1 Yes 2 No									
24. NAME AND ADDRESS OF CEMETERY OR CREMATORY _____																	
25. INFORMANT Signature _____ Address _____ Name in Print _____ Relationship to the deceased _____ Date _____																	
26. PREPARED BY Signature _____ Name in Print _____ Title or Position _____ Date _____						27. RECEIVED AT THE OFFICE OF THE CIVIL REGISTRAR Signature _____ Name in Print _____ Title or Position _____ Date _____											
83 _____																	
85 _____																	
86 _____																	
90 _____																	

Benchmarked Cemetery Prices



HIMLAYANG FILIPINO INC

HIMLAYANG FILIPINO INC
HARDIN NG GUMAMELA CRYPTS
PRICELIST EFFECTIVE MAY 1, 2021



FOR MARKETING USE OF CORDERO AGENCY.

PRE-NEED SPOT-CASH	40,781.00
AT-NEED SPOT-CASH	42,891.00

INSTALLMENT TOTAL CONTRACT PRICE (Inclusive of MCF, EVAT)	45,000.00
25% Down-payment	11,250.00
1 yr. monthly installment	3,094.00
2 yrs. monthly installment	1,685.00

Notes:
Installment scheme – Interest rate @18% p.a
Price may change without prior notice.
Monthly installments should be paid on or before due date to avoid penalties

Sample Price of Ashes Crypt, Bone Crypt and Full Body Crypt



Dambana ng Alaala

Ashes Crypt

Price starts PHP 135,000 Spot Cash

1 Bone Crypt

Price starts PHP 46,000 Spot Cash

1 Full Body Crypt

Price starts PHP 95,000 Spot Cash

Inurnment Fee

Full Body: 30,000 / 21,428.57

Bones: 18,000 (5,000 on succeeding)

Ashes: 18,000 (5,000 on succeeding)

Sample Price of Regular Lawn Lots

Lot Products



Regular Lawn Lots

REOPENED LAWN LOTS

Price Starts at 232,960.00 Spot Cash Price

LAWN LOT • 1.0M X 2.5M (2.5SQM)

Standard marble (flat) 12" x 24" x 3"

INTERMENT CAPACITY:

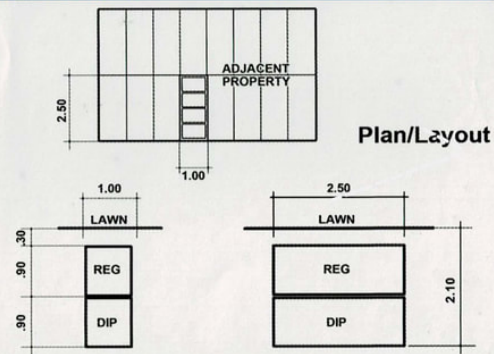
(underground interments)

• Reg. Level – 1 full

interment or 4 bone crypts.

• D.I.P level – 1 full interment or 1 bone crypt.

Lawn Lot REGULAR



LAWN - REGULAR

- Double Interment Privelege (D.I.P)
- Measures : 1.00 x 2.50 m
- Underground interments and marker (12"x34"x3" standard marble) are place on the ground.
- **INTERMENT CAPACITY:** (underground interments)
- Reg. Level – 1 full interment or 4 bone crypts a
- D.I.P level – 1 full interment or 1 bone crypt

PRICES BASED ON PRE-NEED SPOT-CASH

232,960

238,181

346,011

Sample Price of Regular Lawn Lots

Columbary Vault / Bone or Body Crypts



Pugad Lawin Columbary Ash Crypt - max. 4 urns capacity

Pugad Lawin Ash Crypts / Columbary (pricelist as of April 2022)

Ash Crypts	Crypt Price	Spot Cash	AT-NEED	INSTALLMENT PRICE				
				Full DP	Split DP	Monthly Amortization		
						1 yr	2 yrs	3 yr
Level A	100,000	90,560	95,280	25,000	12,593	6,876	3,744	2,711
Level B	105,000	95,060	100,031	26,250	13,223	7,220	3,932	2,847
Level C	125,000	113,061	119,031	31,250	15,741	8,595	4,680	3,389
Level D	125,000	113,061	119,031	31,250	15,741	8,595	4,680	3,389
Level E	105,000	95,060	100,031	26,250	13,223	7,220	3,932	2,847
Level F	70,000	63,560	66,780	17,500	8,815	4,813	2,621	1,898

Other fees

Inurnment Fee: 25,000 (6,000 on succeeding)

*price subject to change

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