Chambers of the Burning Ashes System

Project Documentation Submitted to the Faculty of the School of Computing and Information Technologies

Asia Pacific College

In Partial Fulfillment of the Requirements for Introduction to Systems and Design for CS/IT M/S CSPROJ

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Executive Summary

Chambers of the Burning Ashes (CBAS) is a software solution that aims to replace the current document management system of the St Alphonsus Mary de Liguori Parish which is currently only done manually. Due to the current system, they encounter problems such as duplicated bookings due to human error, forgetting that certain columbaries are already booked prior, and loss of records due to natural disasters such as typhoons. As such, the primary objective of this project is to develop a web-based system using the Django Framework, Python, Tesseract, Nextcloud, and MySQL for the Parish. This is to improve the document management system and provide security for document records. The target audience for this project is the Parish officers and admins. The project will follow an Agile-Scrum development methodology, with iterative cycles of requirements gathering, design, development, and testing. The expected outcome for this undertaking is a working software solution integrated into the system of St Alphonsus Mary de Liguori Parish.

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Comments Matrix

Table 1: Comments Matrix

Section	Comments	Status/To-Do
ERD	- Remove columbary records that reference parish staff	Completed
Objectives	- Objectives are not SMART	Completed
Level 1 DFD	- Add a decision tree for processes involving customers	Completed
Swimlanes	- Include identifiers	Completed
ERD Clarifications	- Clarify if one vault includes multiple urns	Completed
	- Add columns for status, years, and inurnment date	Completed
	- Ensure appropriate data types	Completed
	- Parish admin should be categorized, not added as a table	Completed
Columbarium ERD	- Add columns for cost, location, and size	Completed
	- Customer inquires about columbarium	Completed
	- Columbarium can be inquired by many customers	Completed
	- Identify which agreements are within scope	Completed
	- Partial payments should have a separate one-to-many table	To-Do
	- Beneficiaries should have a separate table	Completed
	- Clarify the number of urns per vault	Completed
Hosting	- Consider replacing hosting with Cloudflare	To-Do

I. Introduction

1.1 Project Context

St Alphonsus Mary de Liguori Parish is a Catholic church located in Humabon Place, barangay Magallanes, Makati, Philippines. They offer a variety of services such as funerals, weddings, and columbarium services. It was originated by the Roman Catholic Archdiocese of Manila and was established on August 2, 1967. The Roman Catholic Archdiocese of Manila is one of the oldest and most prominent Catholic jurisdictions in the Philippines. Established on February 6, 1579, by Pope Gregory XIII, it serves as the metropolitan see for the ecclesiastical province of Manila.

The church's establishment and relevance are still strong; however, a lot of its processes still use dated methods. With these methods and many customers, the process has room for human errors such as duplicated records, loss of records, wrong input information, miscommunication, and missing records. This leads to the use of modern methods such as the utilization of technology to automate their processes and aid them in their accommodation of the customers.

To address these issues, the study aims to design and implement a modern, user-friendly system to automate and streamline these processes. The developers will bridge the church's gap in modern technology knowledge by creating a system that simplifies operations for the benefit of both the church staff and its customers.

1.2 Statement of the Problem

1. **Difficulty keeping track of available columbaries leading to a duplication of records, customer payment status, and contract validity.**
2. **Outdated and inefficient retrieval of vault information.**
3. **The parish lacks a facility to store customer and vault information**

1.3 Objectives

To answer the identified problems, the project aims to design a customized local web application. To be specific, this project aims to:

1. **Develop a local web application to manage, available columbaries, customer transactions, and other relevant documents with 99% accuracy.**
2. **Create a secure customer portal with retrieval of vault information with a 3-second data access, and multi-factor authentication.**
3. **Implement automated daily backups with 100% success rate, and a 30-minute restoration time.**

1.4 Significance of the Project

The Chambers of the Burning Ashes System (CBAS) is significant for its potential to modernize and improve the outdated and inefficient system at St. Alphonsus Mary de Liguori Parish, thereby reducing human errors and improving operational efficiency. By transitioning from manual record-keeping to a centralized, secure, and automated document management system, the church can ensure accurate tracking of columbaries, safeguard customer data, and provide better service to its community.

1. **St. Alphonsus Mary de Liguori Parish employees.** By implementing a document management system, employees will benefit from a streamlined workflow, reducing the time and effort required to manage columbarium records. This system will enable employees to accurately add, remove, and track columbaries, effectively eliminating issues like duplicate sales and lost records. The inclusion of automated data backup and encryption will ensure that records are secure and easily recoverable, mitigating risks associated with human error and data loss.

2. **Customers.** The implementation of a secure and automated document management system ensures that their data is handled with the utmost care, significantly reducing the risk of errors, loss, or miscommunication. In addition, the improved tracking of payment statuses will offer customers clear and accurate information about their transactions, fostering trust and satisfaction with the church's services.

1.5 Scope and Limitations

1.5.1 Scope

The research is limited to the creation and implementation of the new system. The system will be making use of MySQL as the main organization storage system and Nextcloud as the backup organization storage system. Focusing on cloud storage, it does not include services irrelevant to the system's design. The system will feature a user-friendly interface capable of catering to beginners in IT using the Django framework, an integrated cloud database backup storage through Nextcloud, an Optimal Character Recognition for data transferring, report generation for sales and availability of the columbaries, and analytics that utilizes machine learning. As the system will have analytics, it will also be making use of the relevant Python libraries for machine learning. Libraries like matplotlib will be heavily used for the analytics.

1.5.2 Limitations

As the system will make use of Django, it will not be using other frameworks such as Laravel and CodeIgniter. The system does not cover other areas and services of the Parish aside from those related to the columbary services. Examples are the following: wedding services, funerary services, etc. Furthermore, the system will only be sought to improve on the current manual services and will not be in the online space.

II. Data Flow Diagram

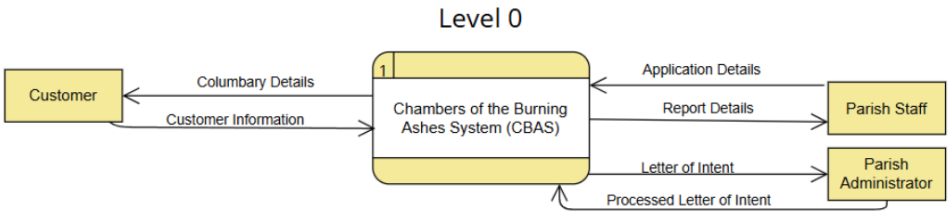

Figure 1: Level 0 Data Flow Diagram

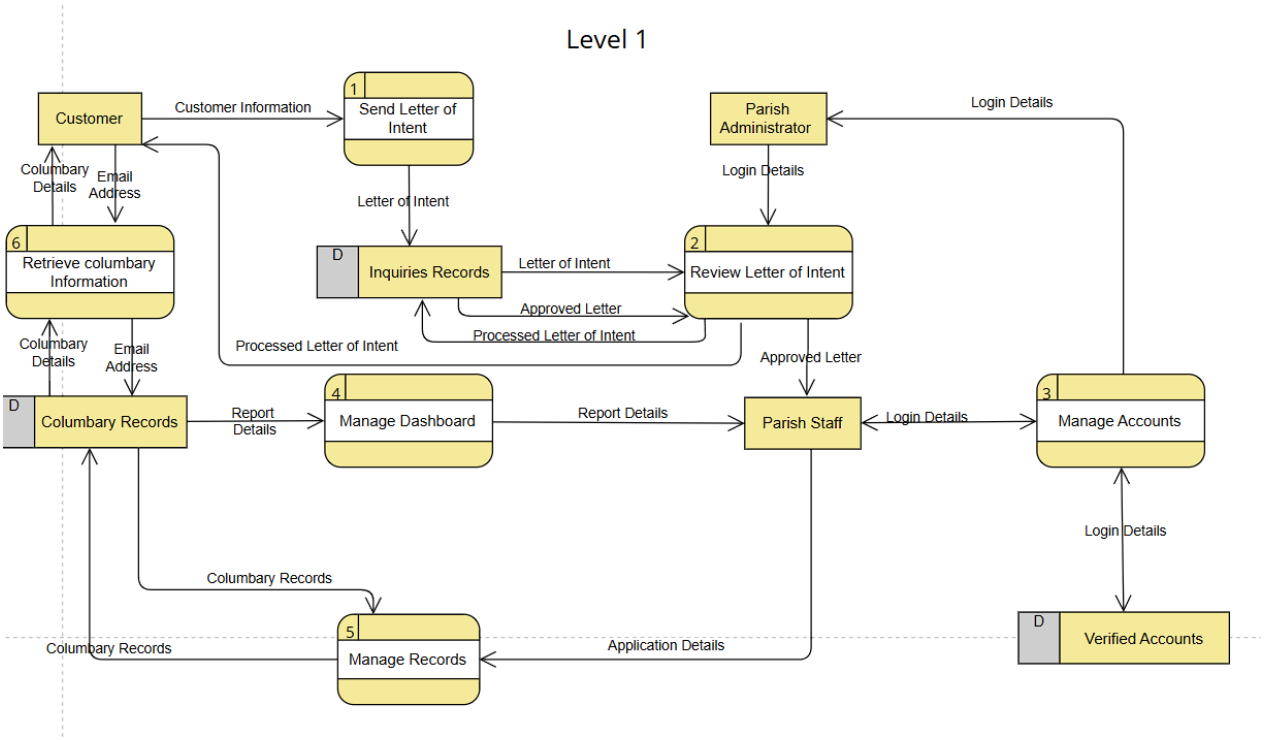

Figure 2: Level 1 Data Flow Diagram

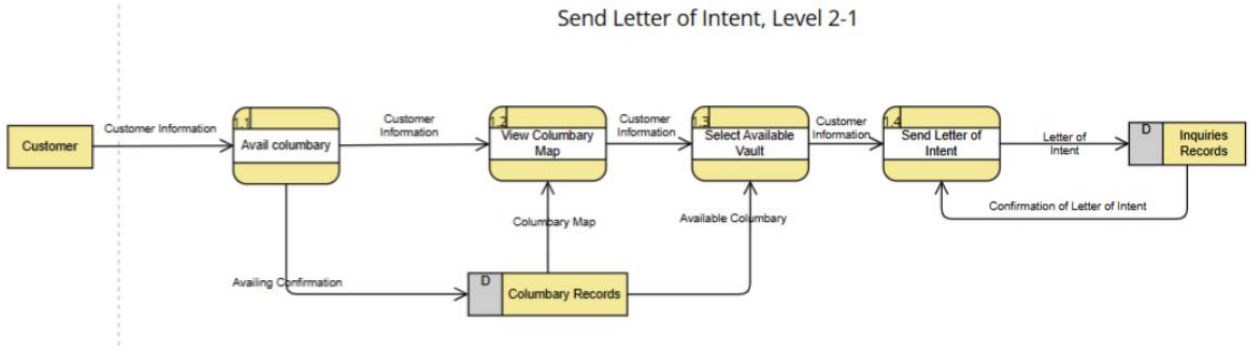

Figure 3: Level 2-1, Send Letter of Intent

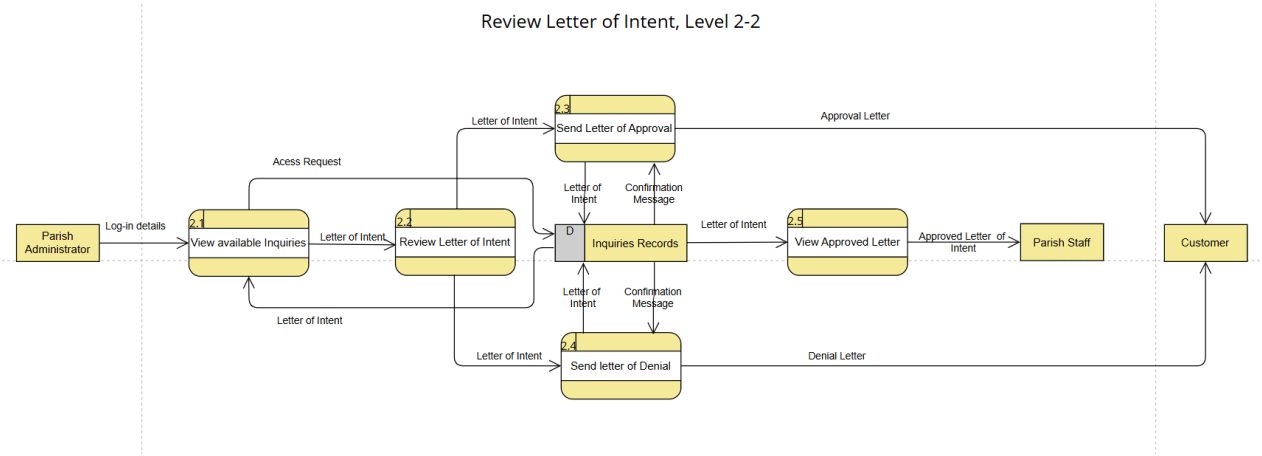

Figure 4: Level 2-2, Review Letter of Intent

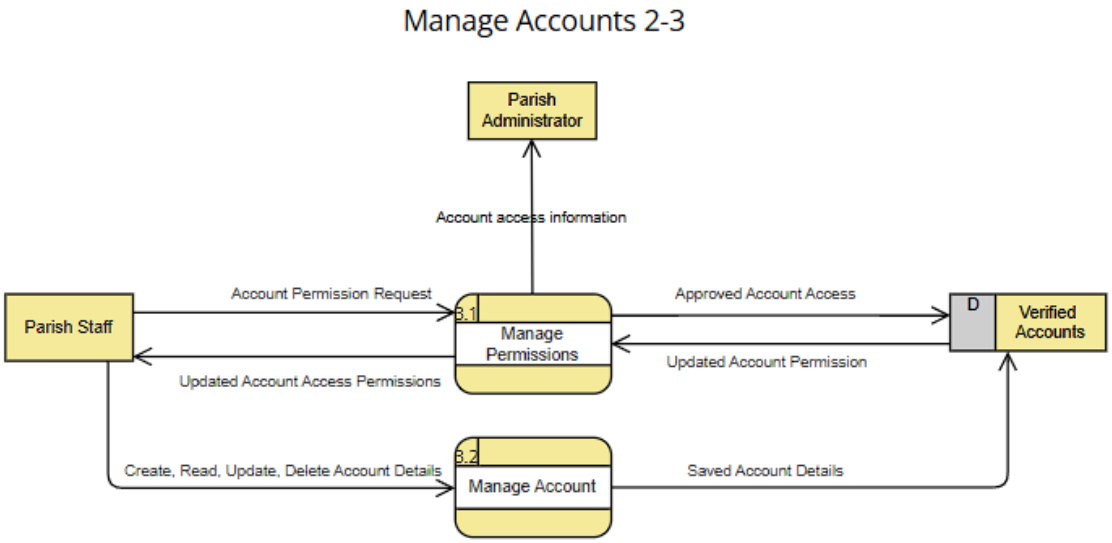

Figure 5: Level 2-3, Manage Accounts

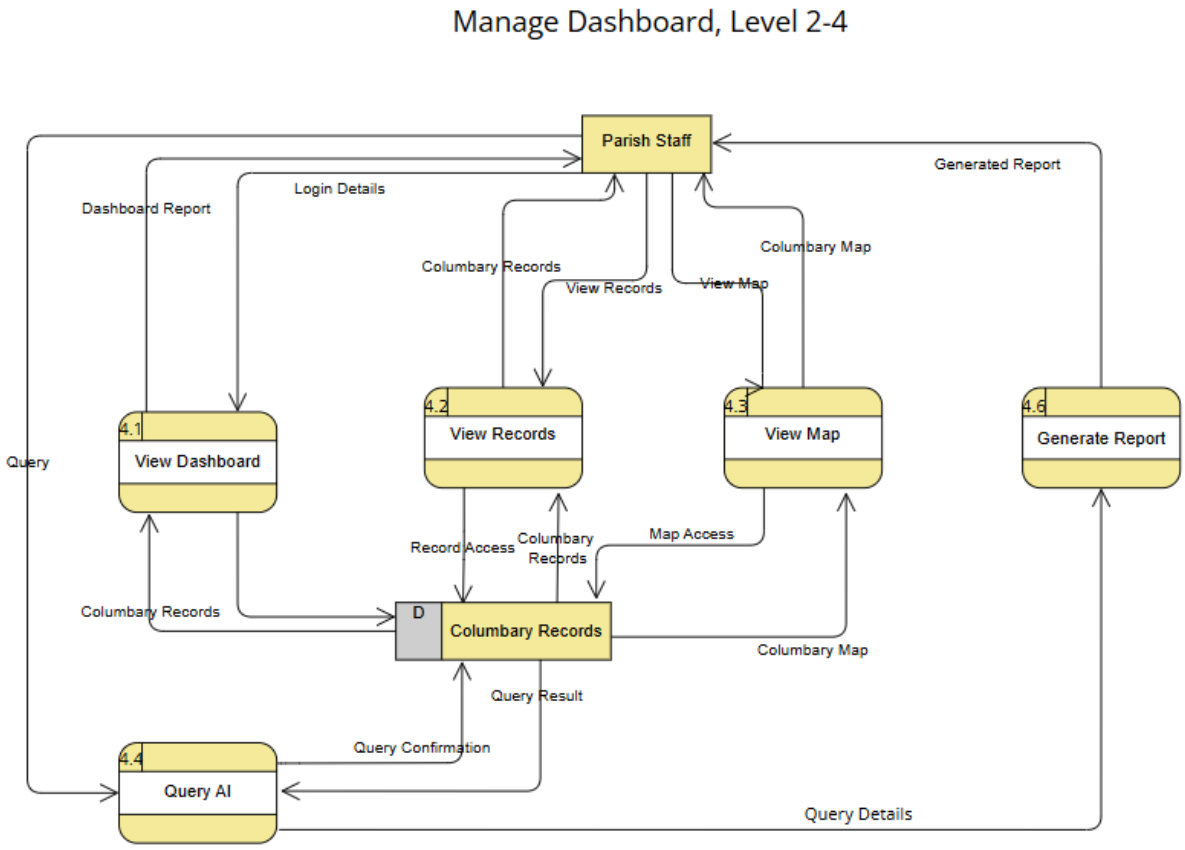

Figure 6: Level 2-4, Manage Dashboard

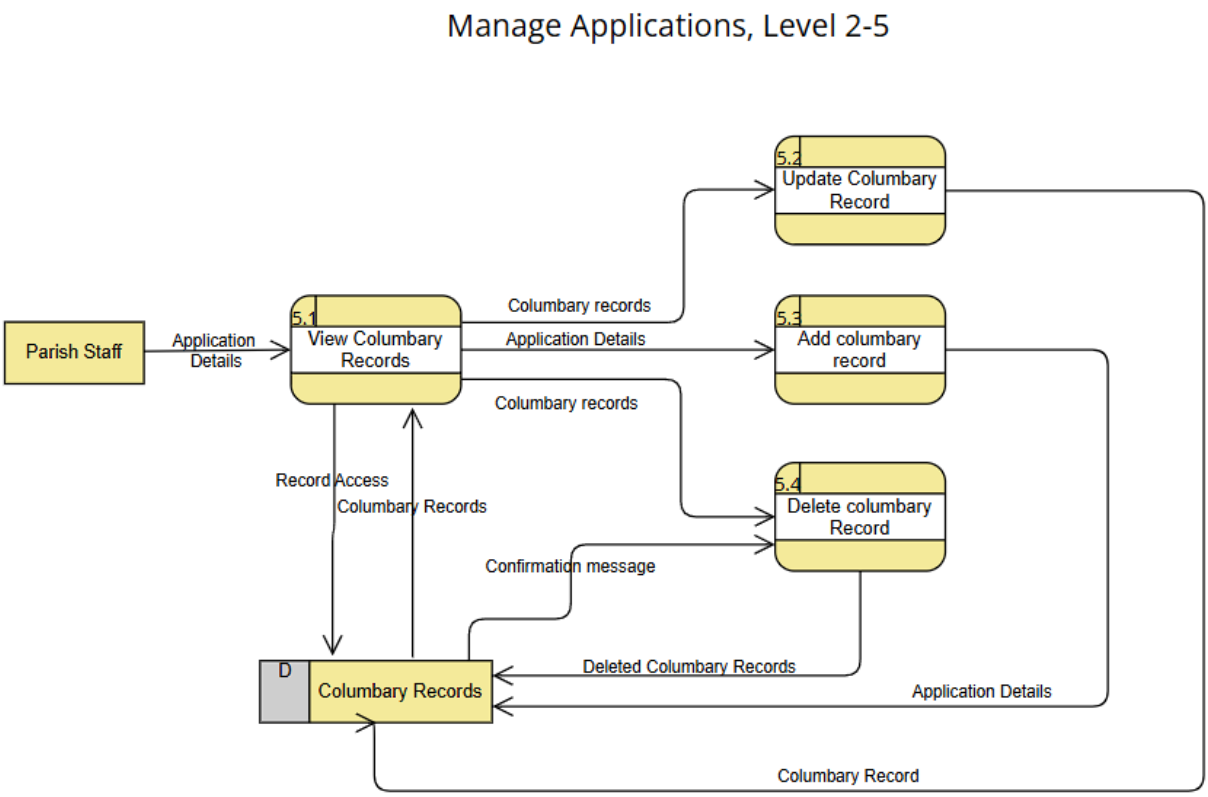

Figure 7: Level 2-5, Manage Applications

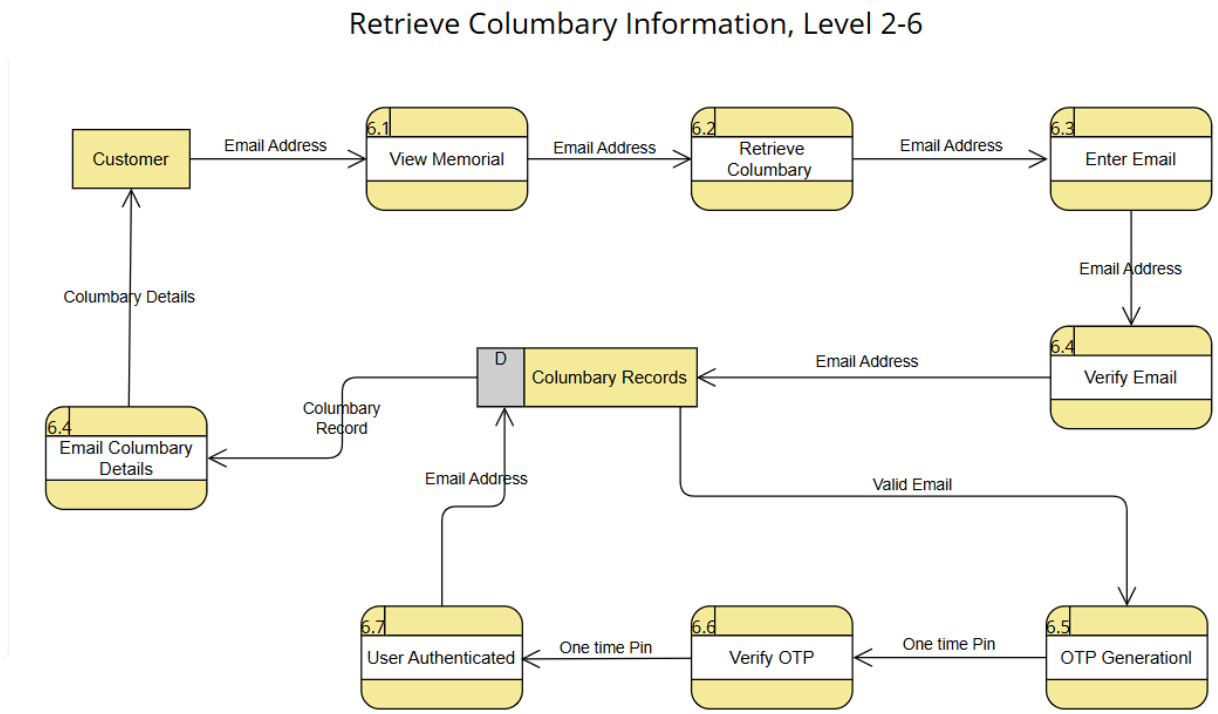

Figure 8: Level 2-6, Retrieve Columbary Information

III. Use Case Diagram

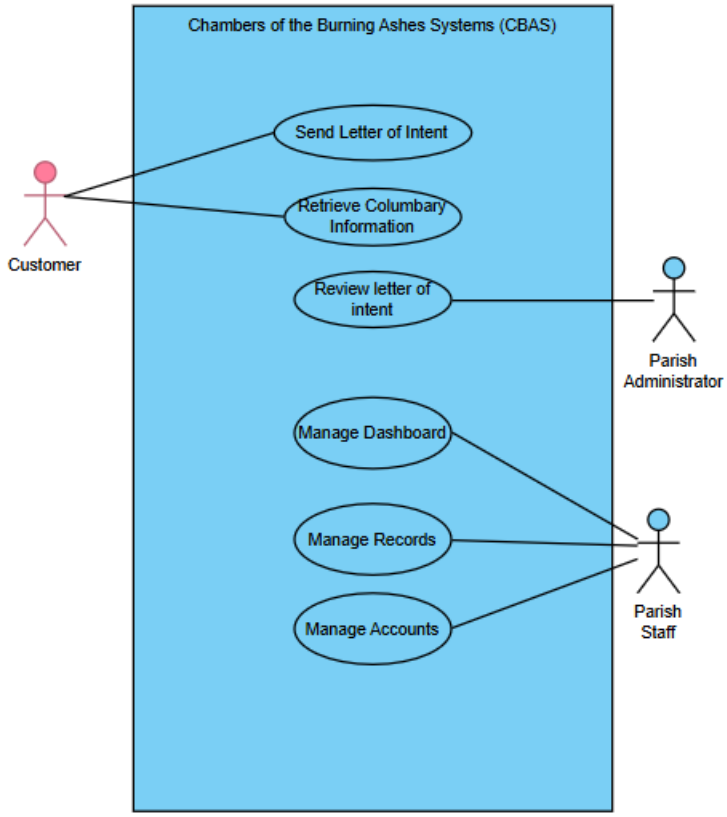

Figure 9: Use Case Diagram

3.1 Use Classes and Characteristics

Table 2: Roles & Description

Roles	Description
Parish Office Staff	*The main user of the new system that is being developed*
Parish Administrator	*The one who oversees the management of columbaries and check them sometimes.*
Customer	*The possible consumers of the columbary services offered by the Parish*

3.2 Fully Dressed Use Cases

Table 3: Send Letter of Intent

Use Case Name	Send letter of intent
Use Case Number	UC-01
Actors	Customer, Parish Administrator
Description	This use case presents how the customer sends the letter of intent to the parish.
Pre-Conditions	• The columbary map and pricing information are up to date. • The parish CBA systems are operational and accessible. • Customer wants to avail a columbary.
Post Conditions	• The customer successfully views available columbaries and their prices. • A letter of intent with the customer's information is generated and sent via email to the parish administrator.
Main Scenario	1. Customer visits the system. 2. Customer visits the virtual tour and looks for columbaries. 3. Customer views the pricing and sections of each columbary. 4. Customer goes back to the main home page and clicks the "avail now" button. 5. Terms & conditions will appear before proceeding. 6. Customer reads the terms & conditions 7. Customer fills in customer information such as email, Cellphone number, Name, and address 8. Customer clicks on the "send" button to send a letter of intent to the Parish.

Table 4: Retrieve Columbary Information

Use Case Name	Retrieve Columbary Information
Use Case Number	UC-02
Actors	Customer, Parish Staff
Description	This use case describes how the system retrieves information relevant to the customer.

Pre-Conditions	• The customer has previously applied for and purchased a columbary and provided a phone number and email address during the application process. • The customer has access to the internet and a valid email account. • The CBA system website is operational, and the customer's columbary information is stored and accessible within the system. • Customer receives and inputs the correct one-time pin.
Post Conditions	• The customer successfully retrieves their columbary information via email, including any relevant documents. • The system logs the retrieval request and verification process for auditing purposes. • The system ensures that the customer's information is securely transmitted and accessed.
Main Scenario	1. Customers navigates to the retrieve columbary tab. 2. Customer clicks the retrieve information button. 3. Customer inputs their email address. 4. The system will generate an OTP and send it to the customer's email. 5. Customer receives their OTP. 6. Customer inputs their OTP code into the website. 7. The customer receives an email containing minimal columbary information.

Table 5: Review Letter of Intent

Use Case Name	Review letter of intent
Use Case Number	UC-03
Actors	Parish Administrator, Customer, Parish Staff
Description	This use case describes how the parish administrator reviews the letter of intent sent

	by the customer and decides either to approve or deny it.
Pre-Conditions	• The Parish Administrator logged in to the email they use for the CBA system. • A letter of intent has been sent by the customer.
Post Conditions	• The inquiry has been reviewed. • A decision has been made. • Customer Receives letter of approval/denial through email. • The approved letter of intent is sent to the Parish Staff.
Main Scenario	1. The parish administrator opens their email for notifications regarding the letter of intent. 2. Parish administrator chooses a letter of intent 3. The parish administrator reviews the letter of intent. 4. The parish administrator approves the letter of intent. 5. The system sends a letter of approval to the customer's email. 6. The system notifies and sends the approved letter of intent to the Parish Staff.
Alternate Scenario	1. The parish administrator opens their email. 2. The parish administrator reviews the letter of intent. 3. The parish administrator denied the letter of intent. 4. The system sends a letter of denial to the customer's email.

Table 6: Manage Dashboard

Use Case Name	Manage Dashboard
Use Case Number	UC-04
Actors	Parish Staff
Description	This use case describes how the parish staff views necessary customer and columbary

	information and how they manage the CBA systems dashboard and AI assistant.
Pre-Conditions	• The parish staff is logged into the CBA system. • The CBA system is fully operational. • All records are viewable. • Columbary information is viewable. • CBA system AI assistant is functional.
Post Conditions	• PA
Main Scenario	1. Parish Staff logs in to the system 2. Parish views the dashboard 3. Parish Staff views the columbary map 4. Parish Staff can view the available columbaries 5. Parish Staff navigates to the AI assistant chatbot 6. Parish staff inputs his prompt 7. Ai assistant answers the query.

Table 7: Manage Application

Use Case Name	Manage Records
Use Case Number	UC-05 customer
Actors	Parish Staff
Description	This use case describes how the parish staff opens the CBA system to update, create and delete customer and columbary records.
Pre-Conditions	• The parish staff member has valid login credentials (username and password). • The CBA system is operational and accessible. • The parish staff's access permissions are properly configured in the system. • Parish staff is Logged-in in the system
Post Conditions	• The parish staff perform their duties, including managing customer records. • The Parish staff can add, edit and delete records. • Parish staff can scan new applications
Main Scenario	1. The parish staff logs in to the system

	2. The parish staff has three options add, edit and delete 3. The parish staff clicks on the “add” button to add new records. 4. The parish staff clicks on an existing columbary record and clicks on edit. 5. The Parish staff opens an existing columbary record and clicks on delete. 6. The parish staff clicks on the “Save button”

Table 8: Manage Accounts

Use Case Name	Manage Accounts
Use Case Number	UC-06
Actors	Parish Staff, Parish Administrator
Description	This use case describes how the parish staff manage parish accounts on the CBA system.
Pre-Conditions	• The parish staff is logged into the CBA system with the necessary permissions to manage accounts. • The parish staff has navigated to the main dashboard of the CBA system. • The parish admin can be granted permissions to the system
Post Conditions	• The parish staff deletes, updates, manages permissions or creates an account for the CBA system.
Main Scenario	1. The parish staff navigates to the accounts tab. 2. The parish Staff can then create, update, manage permissions, and delete accounts through the CBA System. 3. Parish staff manage access permissions to the Parish Administrator.

IV. Test Cases

Test Case ID	TC_01	Test Case Description	Test if send letter of intent works		
Created By	Kyle	Reviewed By	Janson	Version	1.0

QA Tester's Log	Initial testing when creating customer inquiry section of website.				
Tester's Name	David	Date Tested	TENTATIVE	Test Case (Pass/Fail/Not	Not Executed

S #	Prerequisites:
1	Access to Internet
2	Access to the website

S #	Test Data
1	ping -t website.com
2	tracert website.com
3	nmap commands to check vulnerability

Test Scenario	Verify whether the customer inquiry works or not.

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Customer visits the system	Site should open	As Expected	Not Executed
2	Customer Navigates to the	Columbary map should open	As Expected	Not Executed
3	Customer clicks “avail now”	360 View of the surrounding	As Expected	Not Executed
4	Customer view available	Terms and conditions should	As Expected	Not Executed
5	Customer chooses	Inquiry form should appear	As Expected	Not Executed
6	Customer views the pricing	Al generate the inquiry form	As Expected	Not Executed
7	Customer chooses a	Inquiry form should appear	As Expected	Not Executed
8	Terms & conditions will	Al generate the inquiry form	As Expected	Not Executed
9	Customer reads the terms &	Inquiry form should appear	As Expected	Not Executed
10	Customer fills in customer	Al generate the inquiry form	As Expected	Not Executed

Figure 10: TC-01

Test Case ID	TC_02	Test Case Description	Retrieve columbary information		
Created By	David	Reviewed By	Kyle	Version	1.0
QA Tester's Log	Testing if costumer retrieval of information works				
Tester's Name	Jacob	Date Tested	TENTATIVE	Test Case (Pass/Fail/Not	Not Executed

S #	Prerequisites:
1	The customer has previously registered and
2	The CBAS system is online and operational.
3	The customer has access to the registered
4	The columbary information is stored in the

S #	Test Data
1	Registered email address of the customer. (dummy)
2	Access to the customer's email inbox.
3	Internet access to visit the CBAS website.
4	Columbary ID or identifier stored in the system.

Test Scenario: Retrieve Columbary Information

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Customers navigates to the	The "Retrieve Columbary"	As Expected	Not Executed
2	Customer clicks the retrieve	The system should send a	As Expected	Not Executed
3	Customer inputs their email	The system should confirm	As Expected	Not Executed
4	The system will generate an	The system successfully	As Expected	Not Executed
5	Customer inputs their OTP	The Customer verifies the	As Expected	Not Executed
6	The customer receives an	System sends email to the	As Expected	Not Executed

Figure 10: TC-02

Test Case ID	TC_03	Test Case Description	Review Letter of intent		
Created By	David	Reviewed By	Kyle	Version	1.0
QA Tester's Log	Initial testing columbary map of the website works				
Tester's Name	Jacob	Date Tested	TENTATIVE	Test Case (Pass/Fail/Not	Not Executed

S #	Prerequisites:
1	Parish access the CBAS
2	Inquiries records are available
3	The website is functional.

S #	Test Data
1	Access to the CBAS system.
2	Access to the CBAS website
3	URL to the CBAS homepage.

Test Scenario: Viewing Columbary Map

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	The parish administrator	Homepage loads	As Expected	Not Executed
2	Parish administrator	The inquiry tab will execute	As Expected	Not Executed
3	The parish administrator	The Parish successfully	As Expected	Not Executed
4	The parish administrator	Sends letter of intent	As Expected	Not Executed
5	The system sends a letter of	Customer recevies email	As Expected	Not Executed
6	5. The system sends a letter	Parish staff recevies the	As Expected	Not Executed

Figure 11: TC-03

	TC_04	**Test Case Description**	Manage Dashboard		
	Janson	**Reviewed By**	Jacob	**Version**	1.0
	Testing when dashboard works or not.				
	David	**Date Tested**	TENTATIVE	**Test Case (Pass/Fail/Not**	Not Executed

Prerequisites:	**S #**	**Test Data**
Access to Internet	1	username of parish staff
Access to the website	2	password of parish staff
Must be parish staff	3	ping website
Parish staff logged in the system	4	
CBA System is operational and accessible.	5	

Verify if document validation for columbary purchase works

Step Details	**Expected Results**	**Actual Results**	**Pass / Fail / Not executed / Suspended**
Parish Staff logs in to the	Successfully logs in	As Expected	Not Executed
Parish views the dashboard	Successfully views the	As Expected	Not Executed
Parish Staff views the	System provides the Parish	As Expected	Not Executed
Parish Staff can view the	In the map the Parish staff	As Expected	Not Executed
Parish Staff navigates the	AI prompt is provided	As Expected	Not Executed
AI assistant is now opened	AI assistant listens to	As Expected	Not Executed
Parish staff inputs his	AI assistant recognize the	As Expected	Not Executed
Ai assistant answers the	Ai assistant generates the	As Expected	Not Executed

Figure 12: TC-04

Test Case ID	TC_05	Test Case Description	Manage Application		
Created By	Janson	Reviewed By	Jacob	Version	1.0
QA Tester's Log	Testing wether the staff could edit/delete customer records				
Tester's Name	David	Date Tested	TENTATIVE	Test Case (Pass/Fail/Not	Not Executed

S #	Prerequisites:
1	Access to Internet
2	Access to the website
3	Must be parish staff
4	Parish staff logged in the system
5	CBAS is operational

S #	Test Data
1	username of parish staff
2	password of parish staff
3	Customer data

Test Scenario: Verify if document validation for columbary purchase works

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	The parish staff logs in to the	homepage should open	As Expected	Not Executed
2	The parish staff navigates to	records page should open	As Expected	Not Executed
3	The parish staff has three	records page should open	As Expected	Not Executed
4	The parish	customer data should be	As Expected	Not Executed
5	The parish	homepage should open	As Expected	Not Executed
6	The Parish	records page should open	As Expected	Not Executed

Figure 13: TC-05

Test Case ID	TC_06	Test Case Description	Testing Account Management		
Created By	Jacob	Reviewed By	David	Version	1.0
QA Tester's Log	Initial testing when creating customer inquiry section of website.				
Tester's Name	Kyle	Date Tested	TENTATIVE	Test Case (Pass/Fail/Not	Not Executed

S #	Prerequisites:
1	Access to Internet
2	Access to the website
3	Customer completes necessary steps
4	Parish Staff is logged in the system

S #	Test Data
1	username of parish staff
2	password of parish staff
3	Customer documents

Test Scenario: Verify if document validation for columbary purchase works

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Input login information	CBAS homepage should	As Expected	Not Executed
2	Navigate to manage	Manage Accoutns page	As Expected	Not Executed
3	The parish Staff can then	Can manage accounts	As Expected	Not Executed

Figure 14: TC-06

V. Activity Diagrams

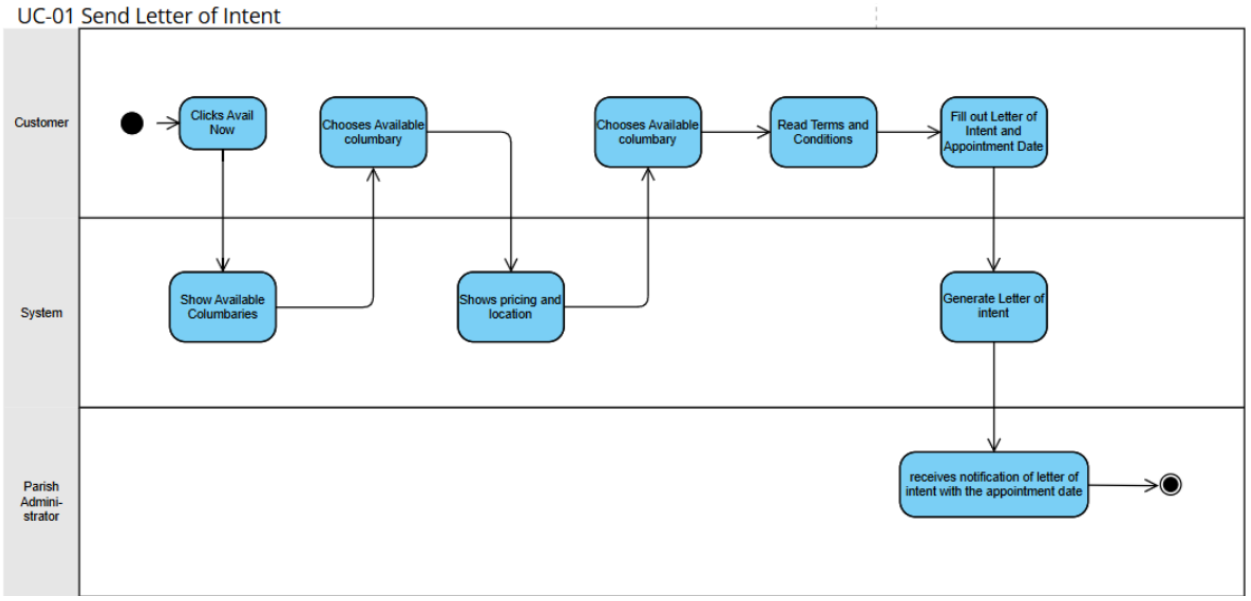

Figure 15: UC-01, Send Letter of Intent

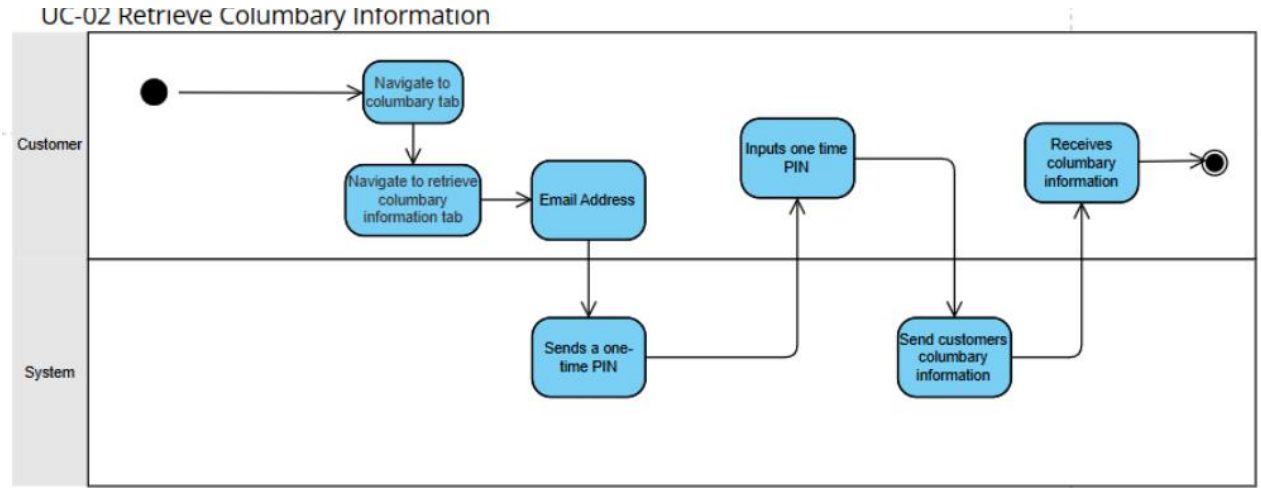

Figure 16: UC-02, Retrieve Columbary Information

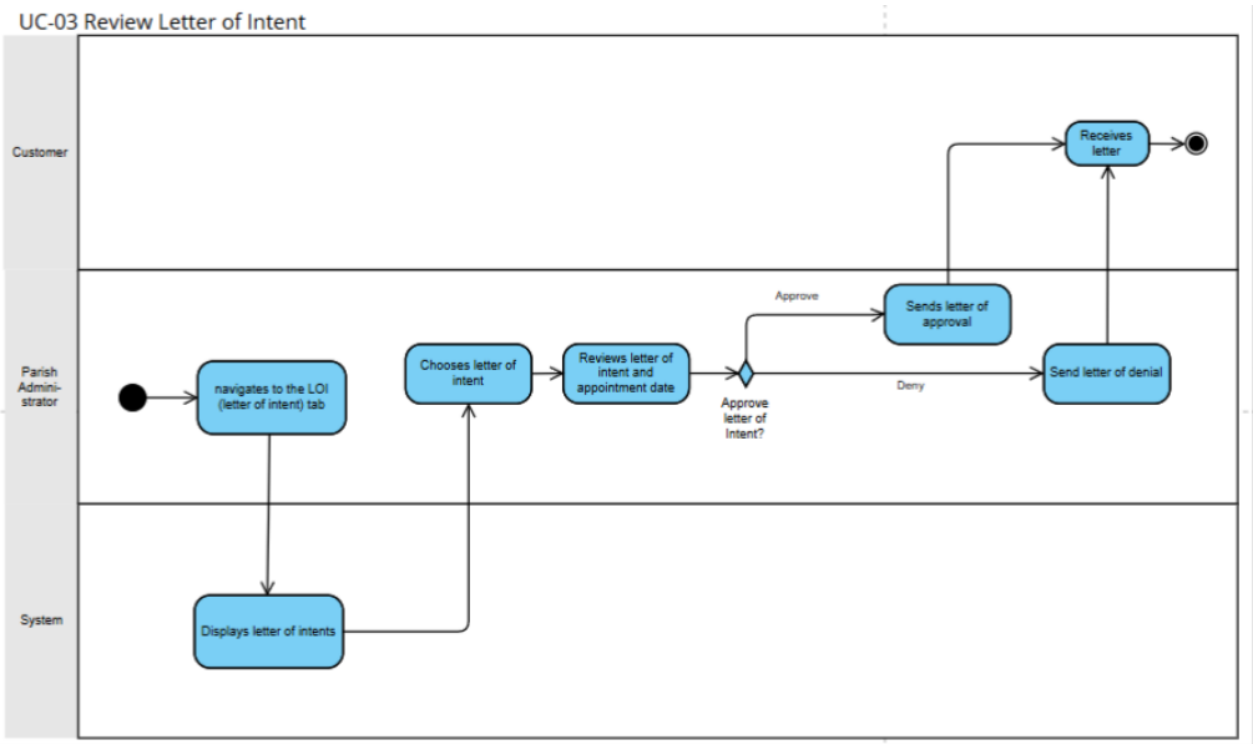

Figure 17: UC-03, Review Letter of Intent

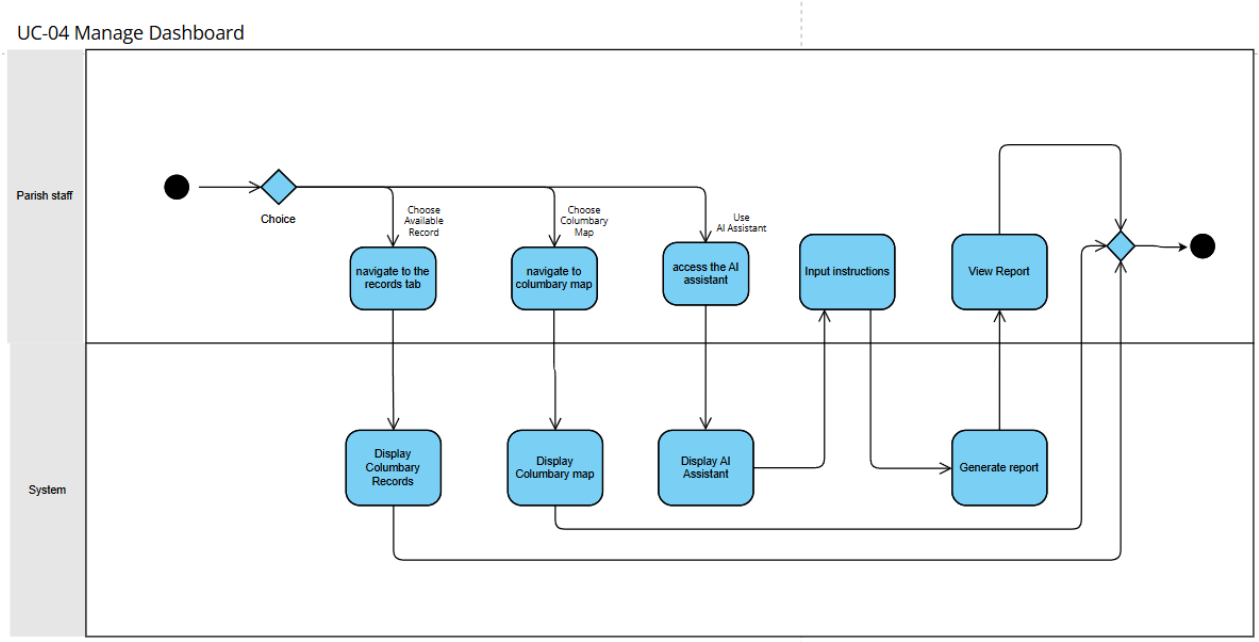

Figure 18: UC-04, Manage Dashboard

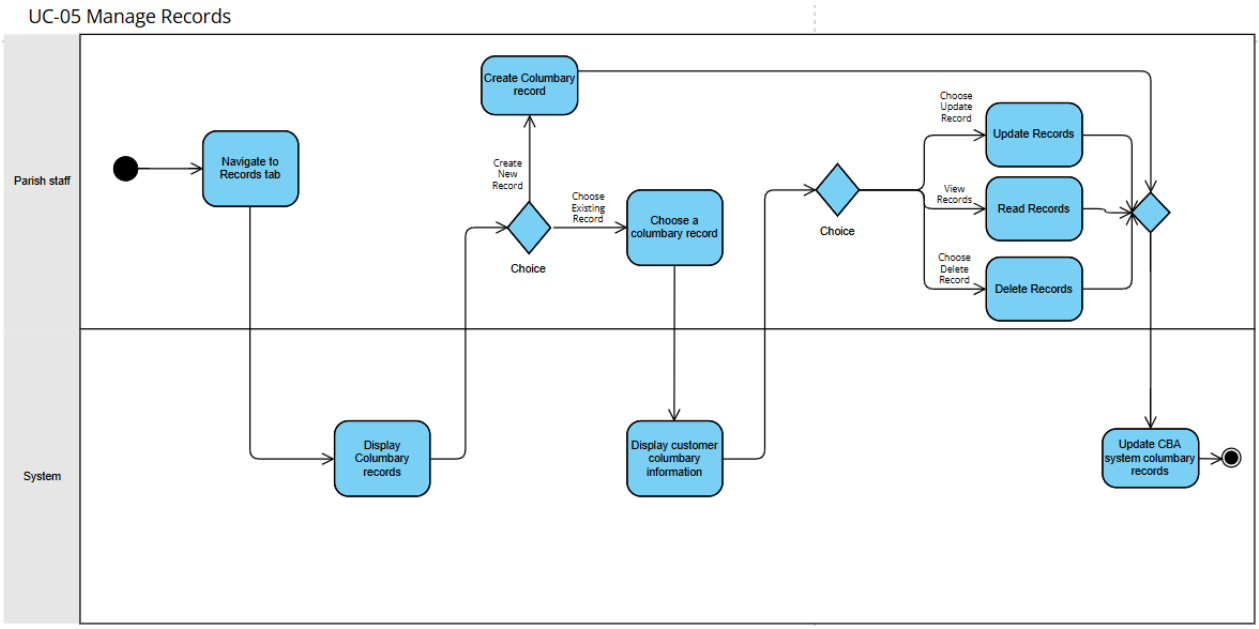

Figure 19: UC-05, Manage Records

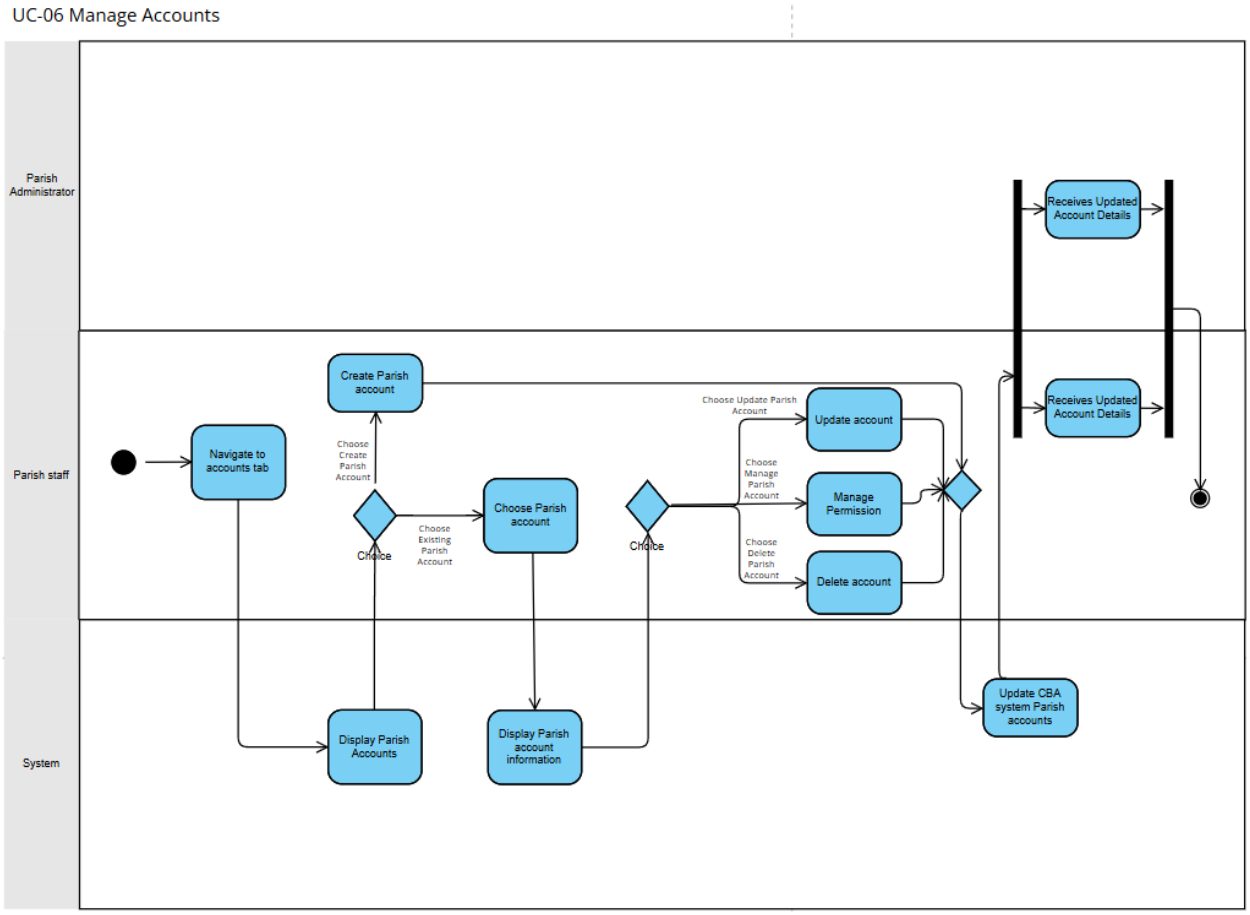

Figure 20: UC-06 Manage Accounts

VI. Database Design (Entity Relationship Diagram)

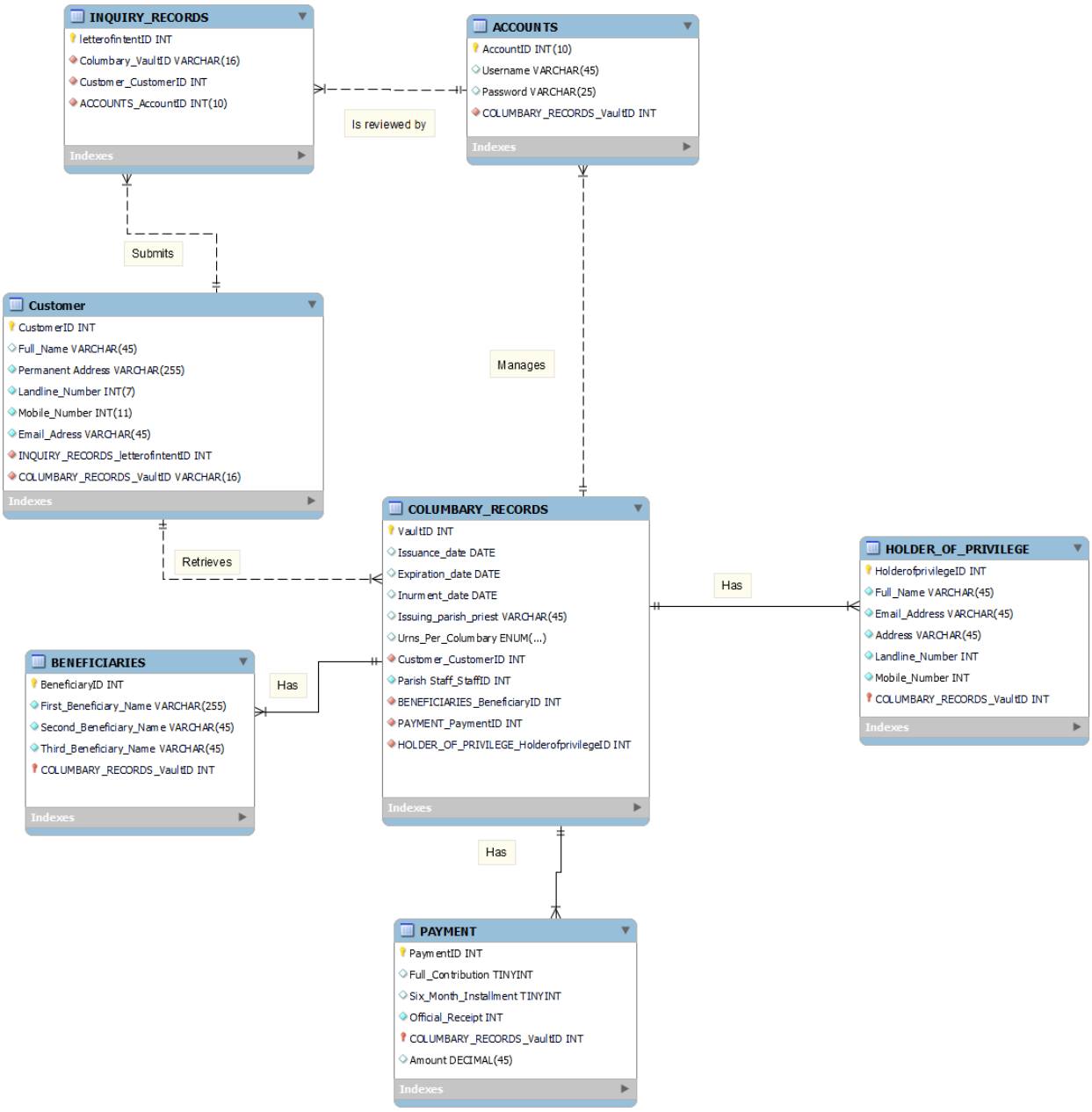

Figure 21: Entity Relationship Diagram

Table 9: Data Dictionary

TABLE NAME	ATTRIBUTE NAME	TYPE	PK OR FK	FK REFERENCED TABLE
Inquiry Records	Letter_Of_IntentID	INT	PK	
	Columbary_VaultID	VARCHAR	FK	Columbary_Records
	Parish_Administrator_AdminID	INT	FK	Parish_Administrator
	Parish_Staff_StaffID	INT	FK	Parish_Staff
	Customer_CustomerID	INT		Customer
Customer	CustomerID	INT	PK	
	Full_Name	VARCHAR		
	Permanent_Address	INT		
	Landline_Number	INT		
	Mobile_Number	VARCHAR		
	Email_Address	VARCHAR		
	Inquiry_Records_Letter_of_IntentID	INT	FK	Inquiry_Records
	Columbary_Records_VaultID	INT	FK	Columbary_Records
COLUMBARY_RECORDS	VaultID	VARCHAR	PK	
	Issuance_Date	DATE		
	Expiration_Date	DATE		
	Inurnment_Date	DATE		
	Issuing_parish_priest	VARCHAR		
	Urns_Per_Columbary	ENUM		
	Customer_CustomerID	INT	FK	Customer
	Parish_Staff_StaffID	INT	FK	Parish_Staff
	BENEFICIARIES_ BeneficiaryID	INT	FK	BENEFICIARIES
	PAYMENT_ PaymentID	INT	FK	PAYMENT
	HOLDER_OF_PRIVILEGE_ HolderOfPrivilegeID	INT	FK	HOLDER_OF_PRIVILEGE
ACCOUNTS	AccountID	INT	PK	
	Username	VARCHAR		
	Password	VARCHAR		
PARISH_STAFF	StaffID	INT	PK	
	Accounts_AccountID	INT	FK	ACCOUNTS
PARISH_ADMINISTRATOR	AdminID	INT	PK	
	Accounts_AccountID	INT	FK	ACCOUNTS
HOLDER_OF_PRIVILEGE	HolderOfPrivilegeID	INT	PK	
	Full_Name	VARCHAR		
	Email_Address	VARCHAR		
	Address	VARCHAR		
	Landline_Number	INT		

	Mobile_Number COLUMBARY_RECORDS_VaultID	INT INT	 FK	 COLUMBARY_RECORDS
BENEFICIARIES	BeneficiaryID First_Beneficiary_Name Second_Beneficiary_Name Third_Beneficiary_Name COLUMBARY_RECORDS_VaultID	INT VARCHAR VARCHAR VARCHAR INT	PK FK	 COLUMBARY_RECORDS
PAYMENT	PaymentID Full_Contribution Six_Month_Installment Official_Receipt COLUMBARY_RECORDS_VaultID	INT TINYINT TINYINT INT INT	PK FK	 COLUMBARY_RECORDS

VII. Prototype

7.1 High Fidelity Prototype

The following high-fidelity prototype, developed by the proponents of CBAS, illustrates the fundamental design for authentication, the dashboard, and the user interface for customer records and available columbaries.

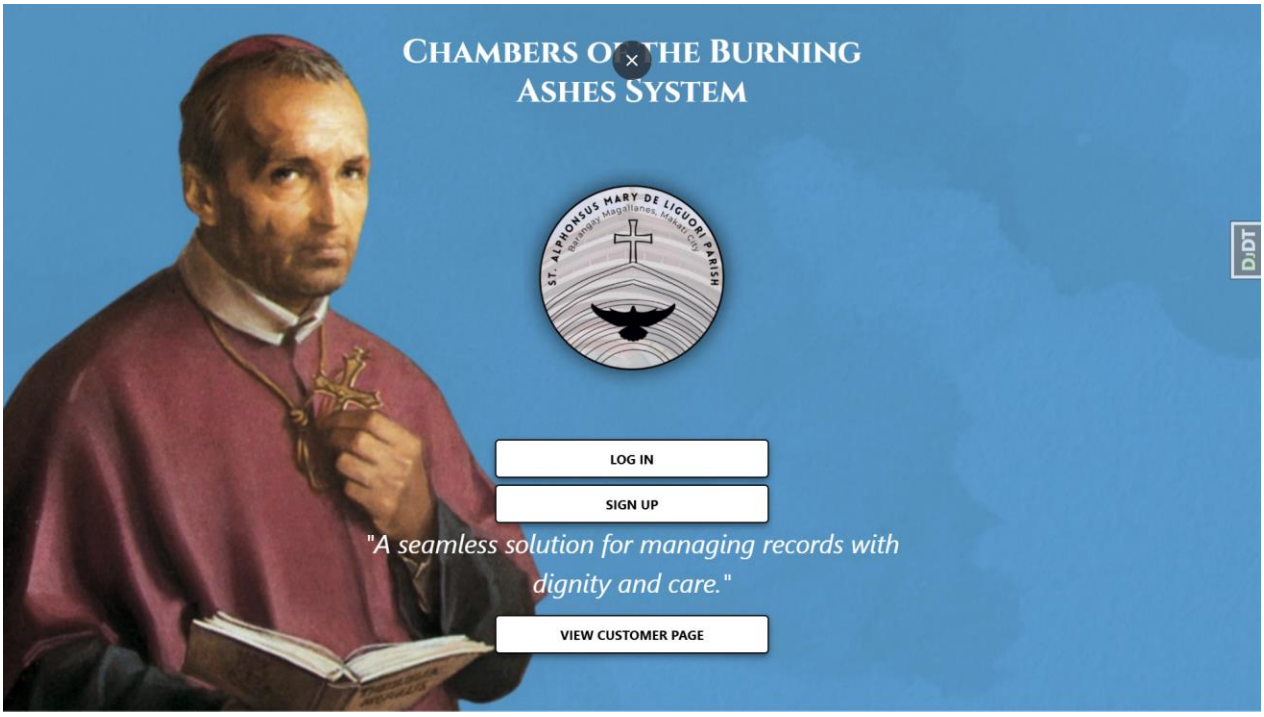

Figure 22: Authentication Page

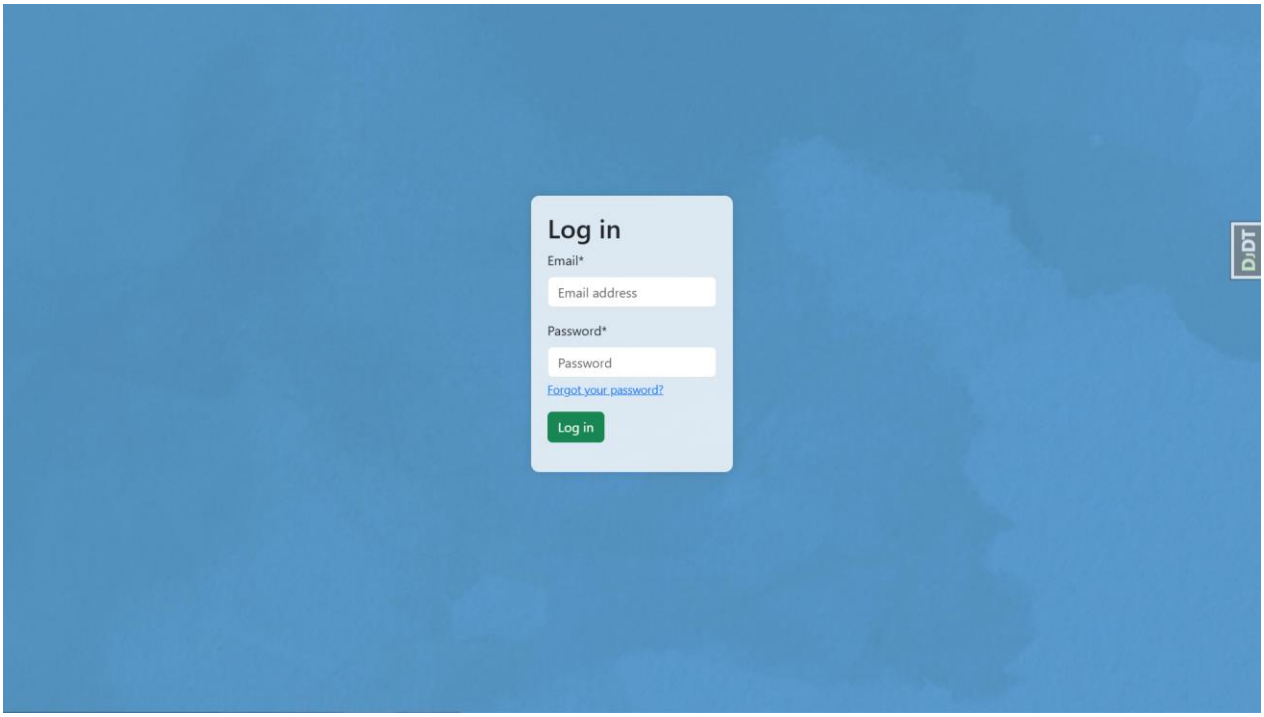

Figure 23: Login Page

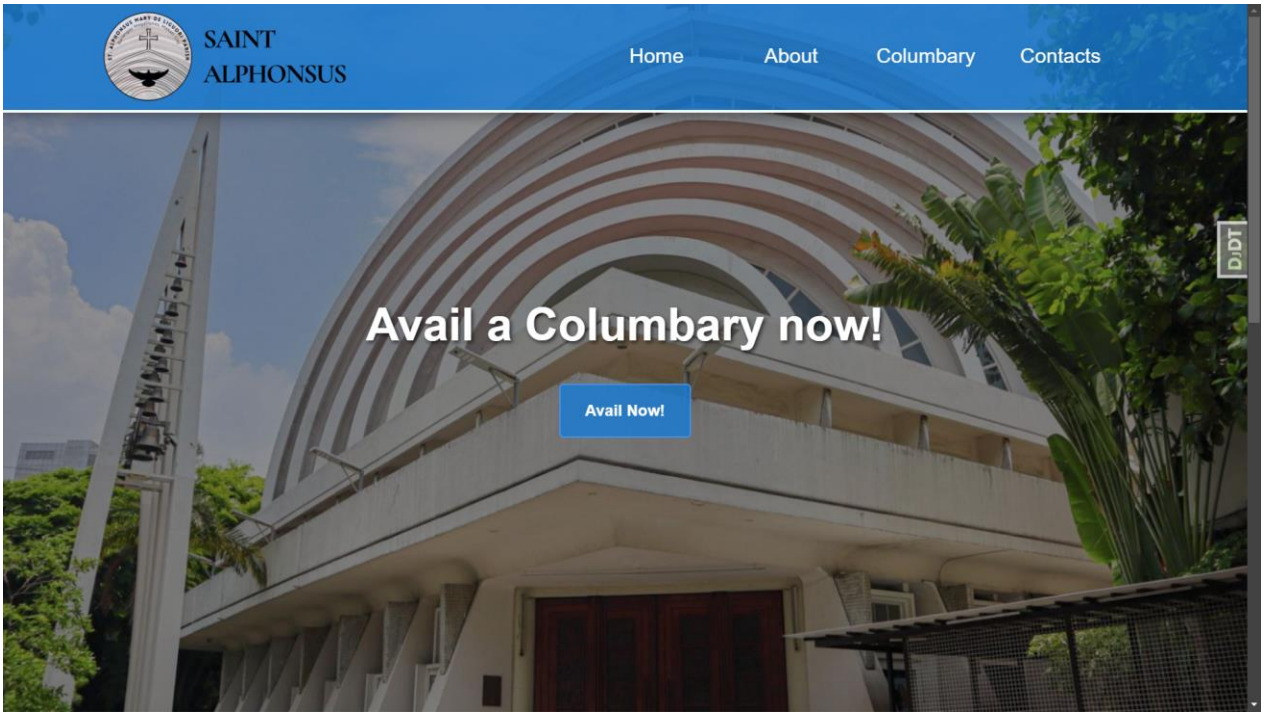

Figure 24: Home Page

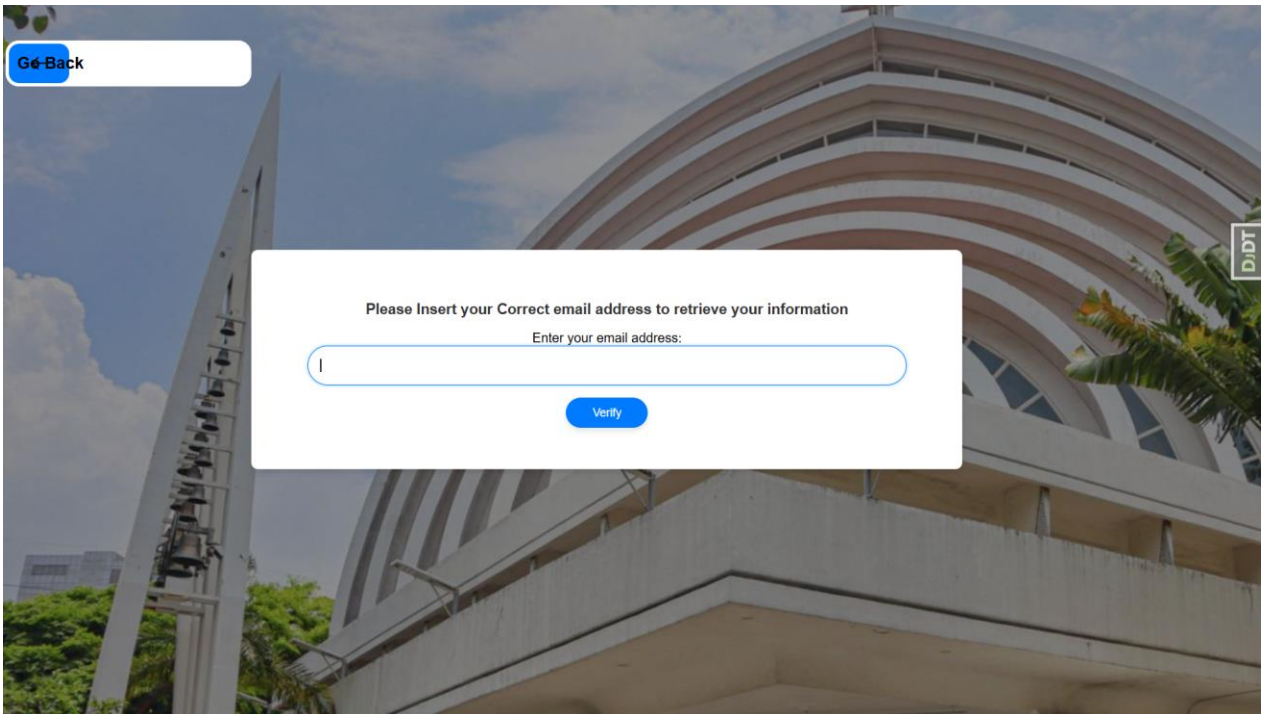

Figure 25: Record Page

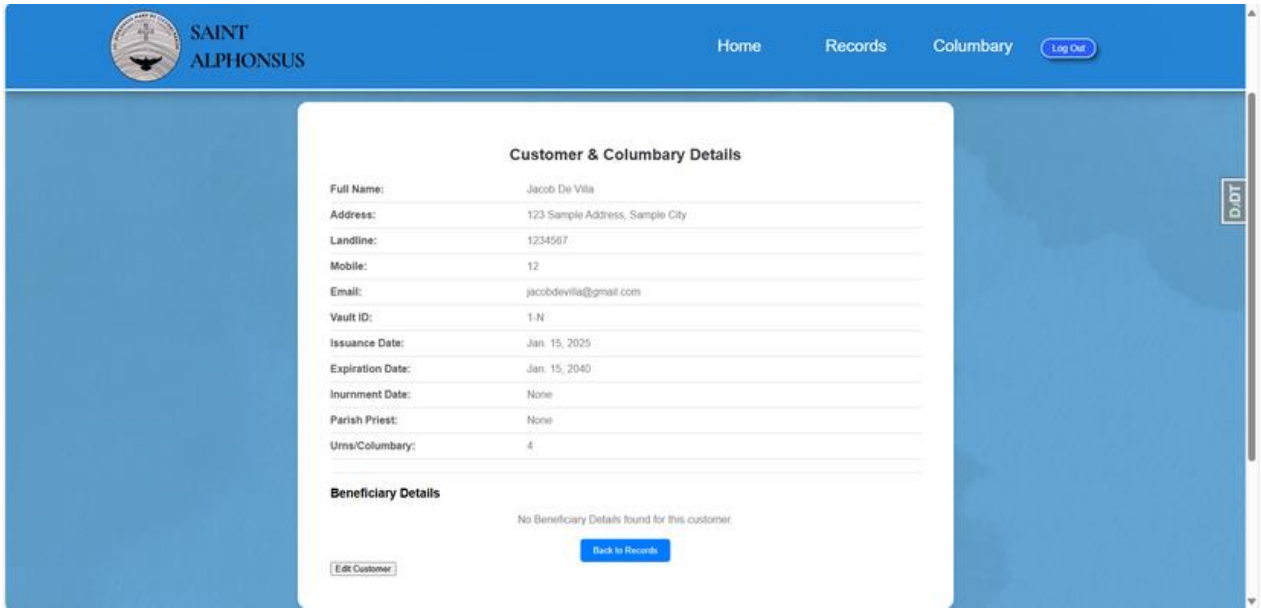

Figure 26: View Details

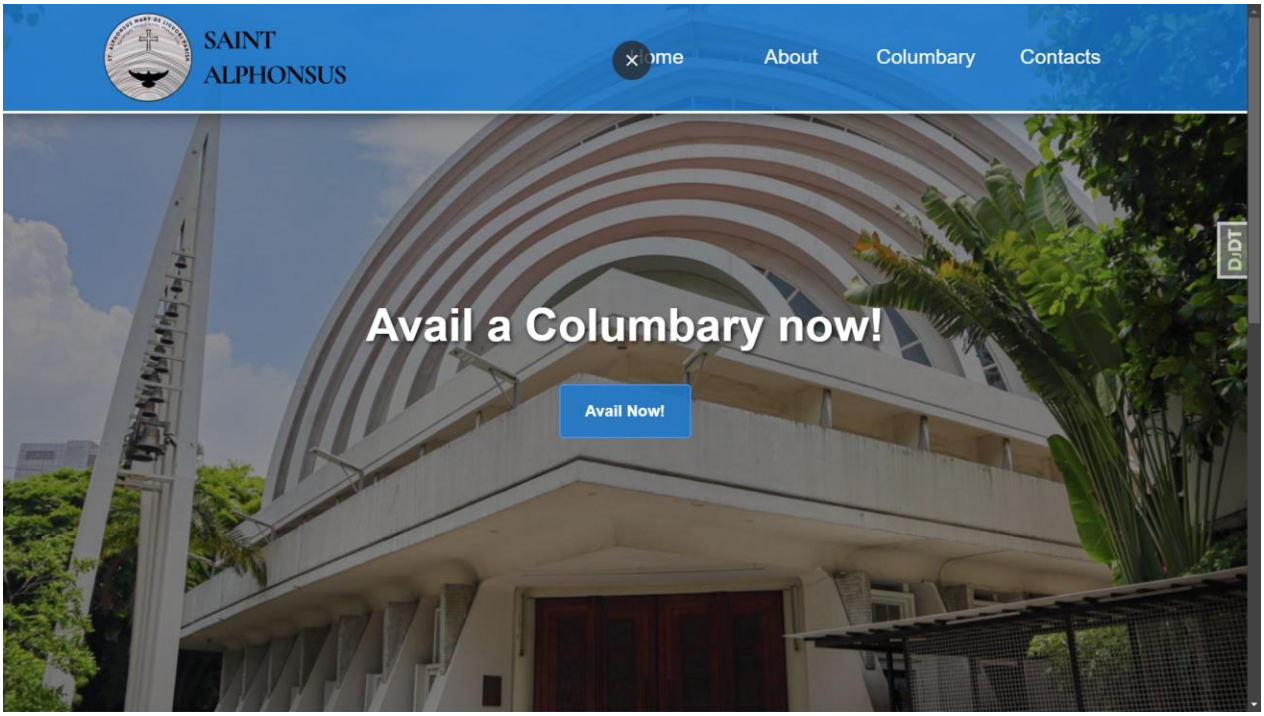

Figure 27: Customer Portal

Figure 28: Virtual Tour

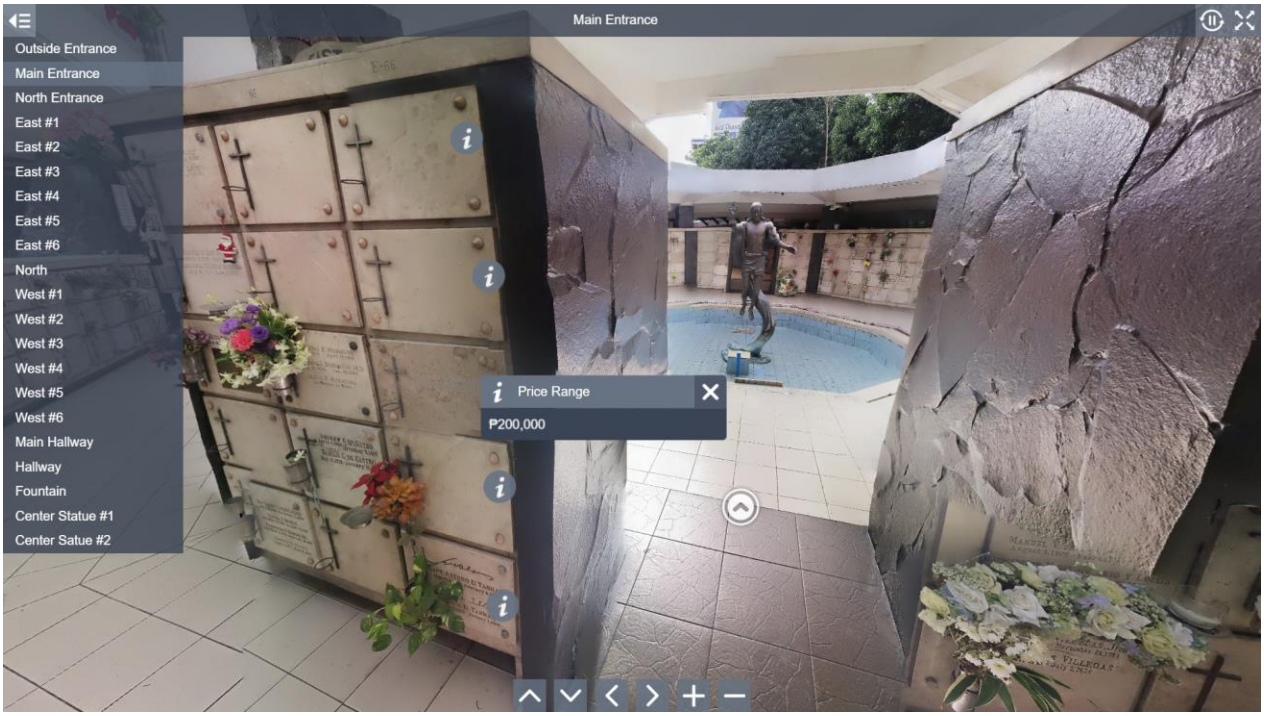

Figure 29: Price Range

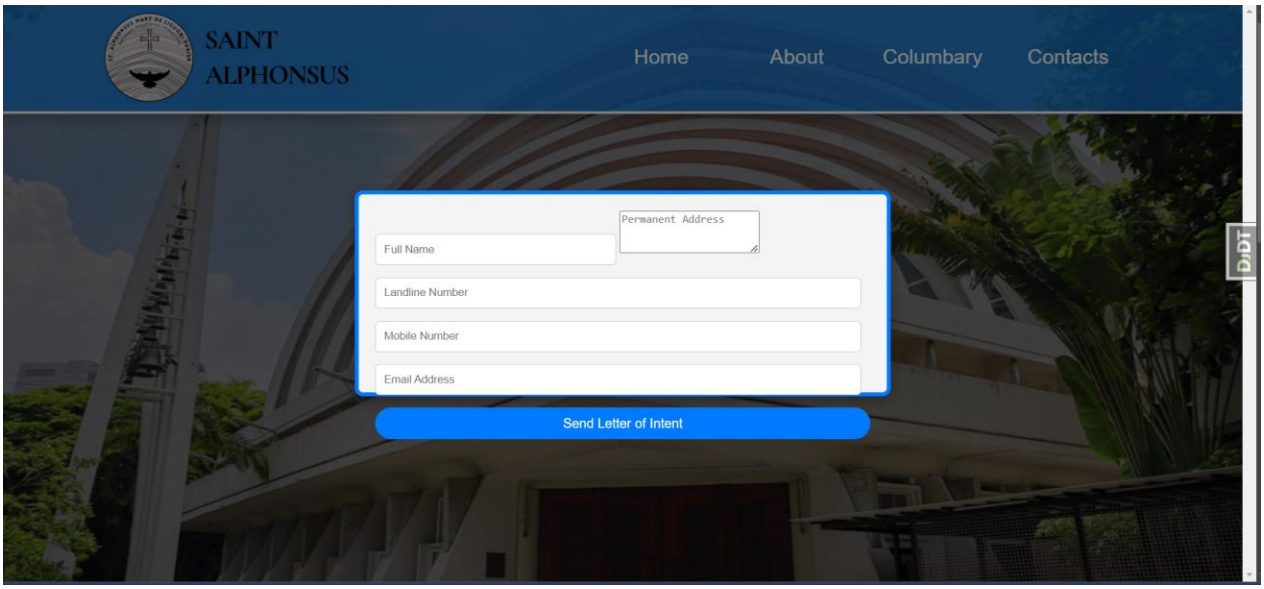

Figure 330: Send Letter of Intent

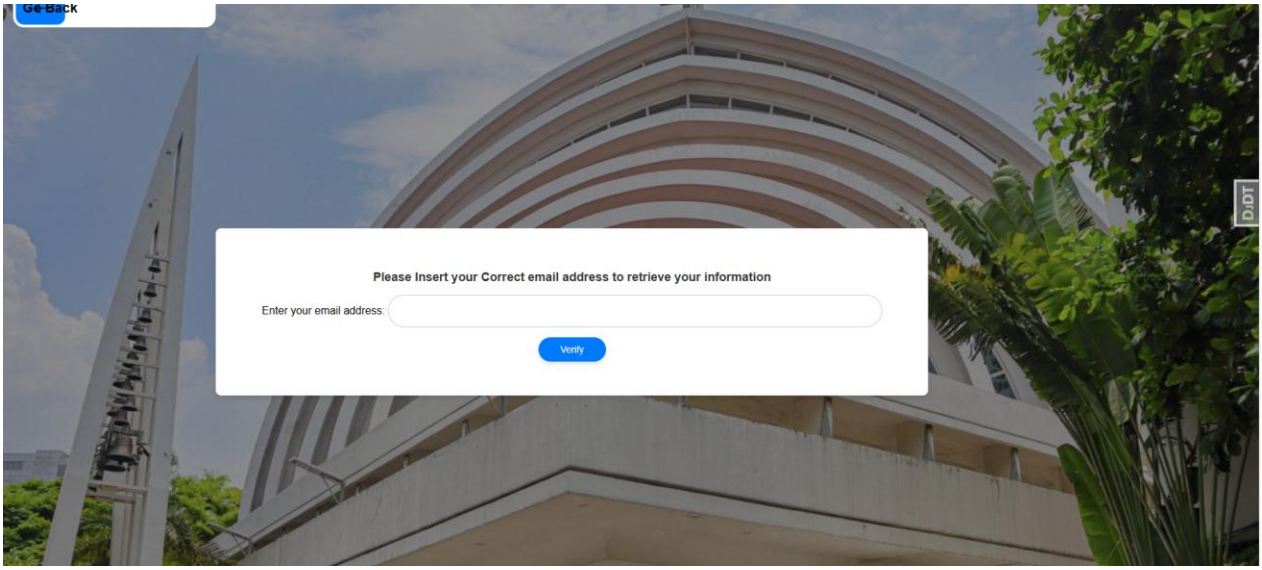

Figure 31: Retrieve Columbary

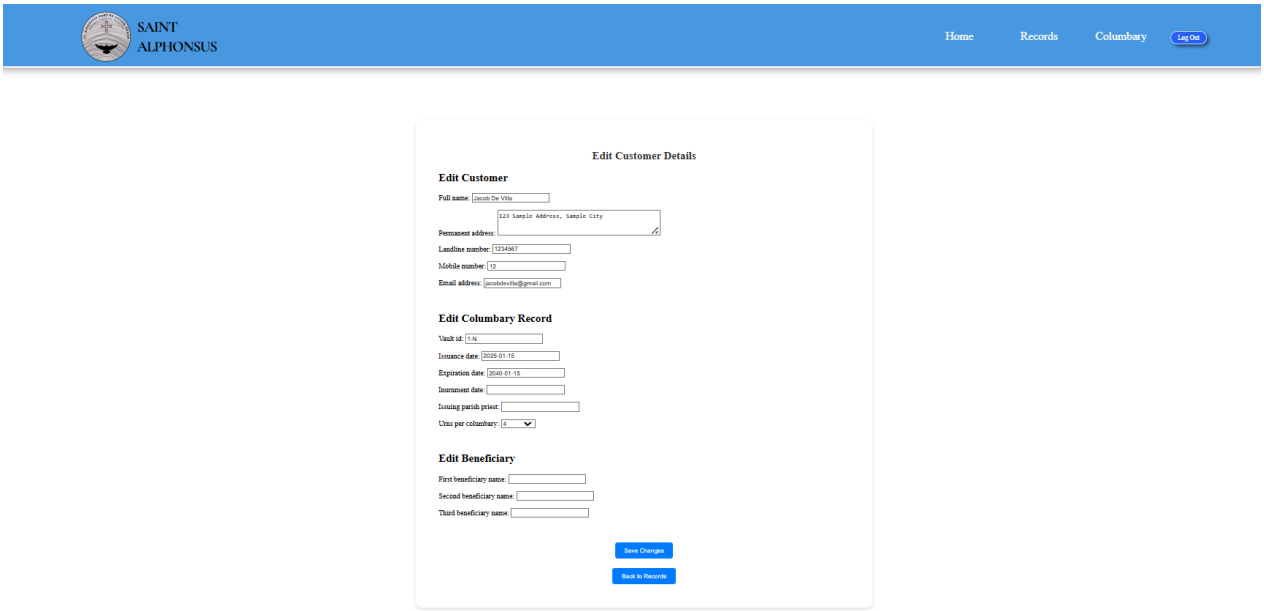

Figure 32: Edit Customer Details

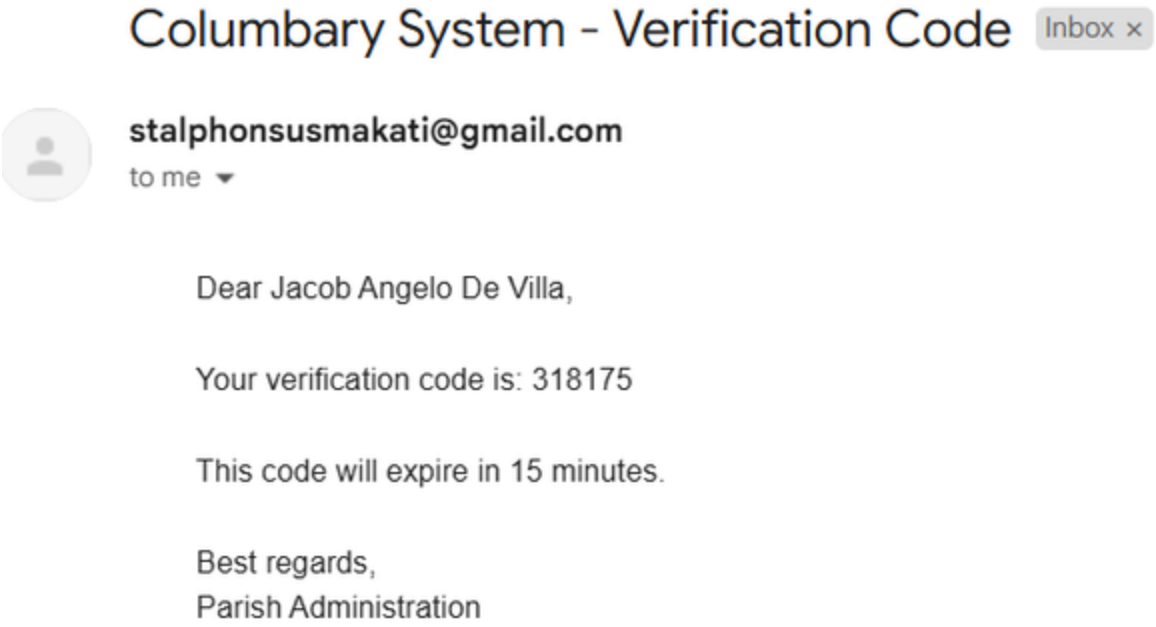

Figure 33: Verification Code

7.2 Technology Stack

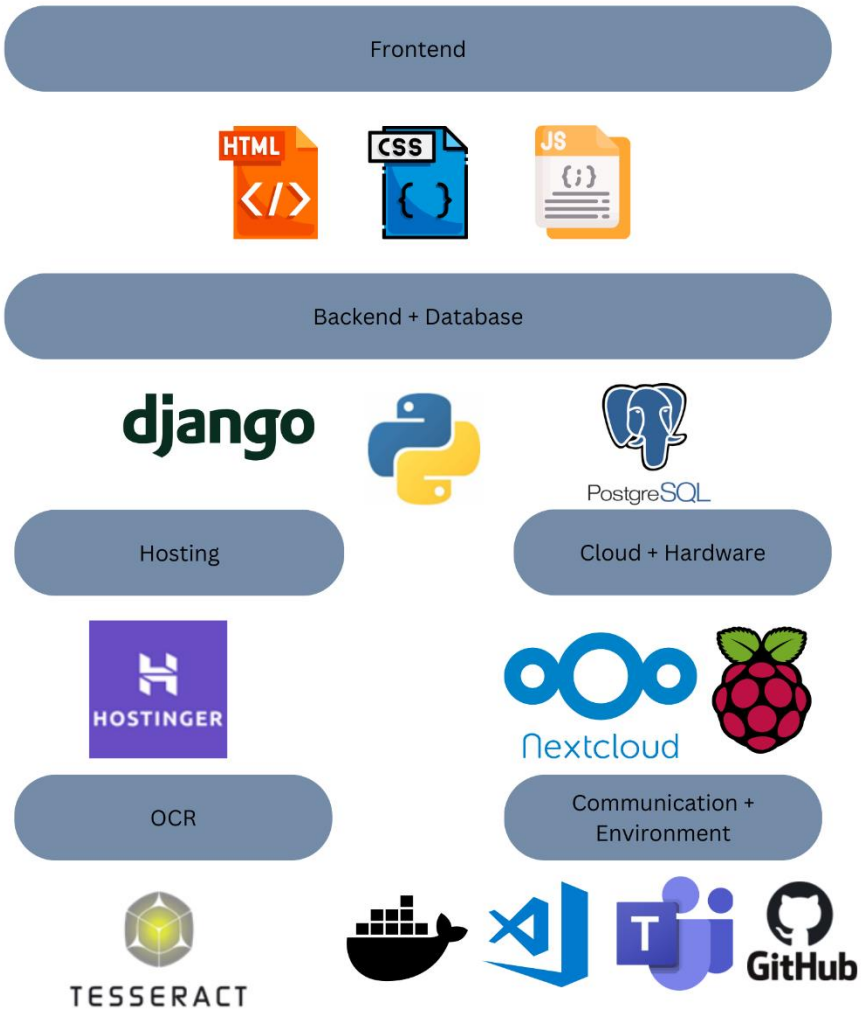

Figure 34: Technology Stack

7.3 Github Repository

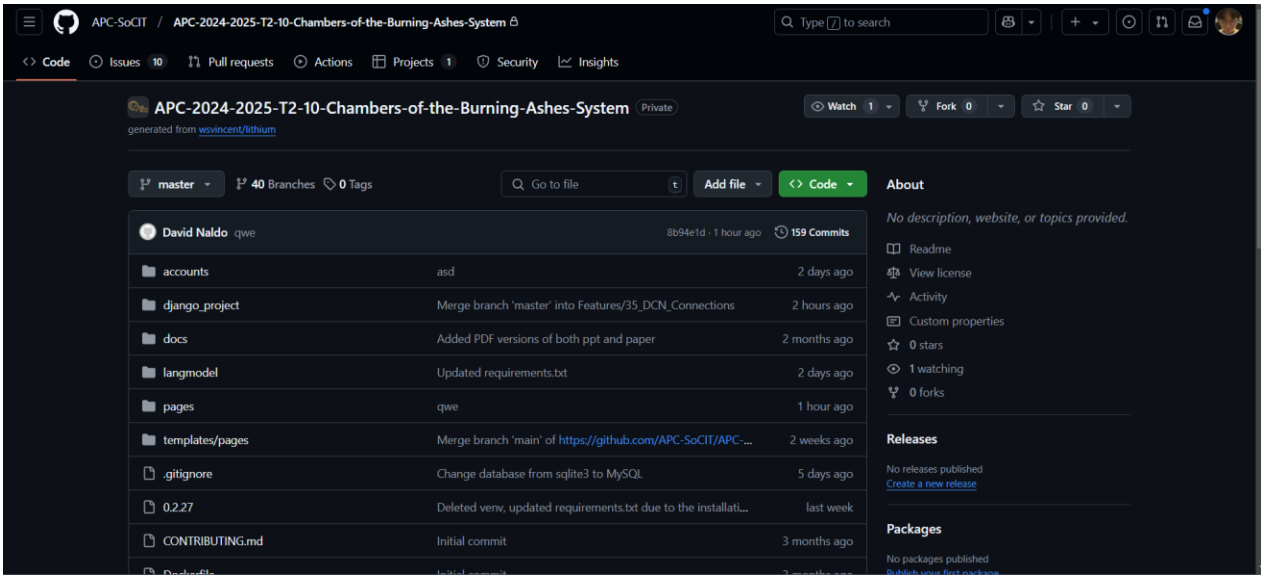

Figure 35: Github Repository

Official Phishda Chambers of the Burning Ashes System Github Repository, The repository can be accessed here: https://github.com/APC-SoCIT/APC-2024-2025-T2-10-Chambers-of-the-Burning-Ashes-System.git

VIII. Appendices

Appendix A: Project Vision

The vision for the Chambers of the Burning Ashes System (CBAS) is to revolutionize the management of columbarium services at St. Alphonsus Mary de Liguori Parish by implementing a modern, secure, and efficient web-based application. This system will streamline and automate the parish's current manual processes, significantly reducing errors and enhancing data security. By providing document management with robust backup and encryption capabilities,

CBAS will ensure accurate tracking of columbarium vaults, secure storage of customer data, and seamless retrieval of information. Ultimately, this project aims to improve operational efficiency, foster trust and satisfaction among customers, and empower parish staff with a user-friendly tool that simplifies their daily tasks.

Appendix B: Schedule/Release Plan

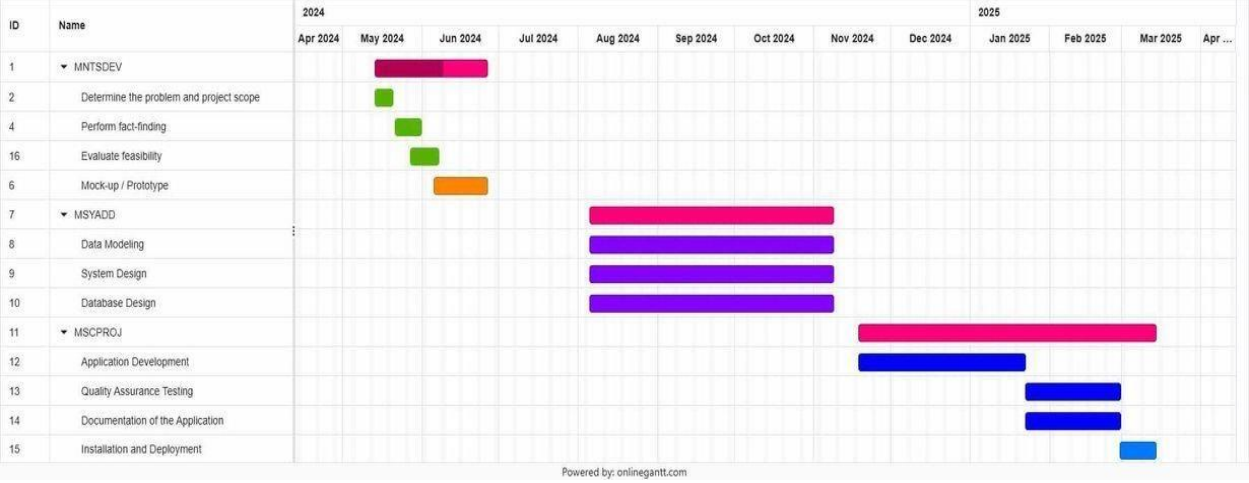

Figure 36: Log out Prompt

Target Group: St Alfonso's Parish Columbarium

Goal: To digitize and create a document management system with the utilization of OCR and analytics.

Needs: To have a web-based platform.

Value: The new digitalized system will increase the security of the data due to its multiplatform capabilities and help the Parish locate certain data about columbaries without physically searching for it**.** Additionally, it aims to visualize data and generate reports.

Key features: Documentation Management System, AI Voice Assistant, Analytics, Nextcloud Pi.

Release Plan

Our release plan is divided into three sections according to our course subjects: MNTSDEV, MSYADD1, and MCSPROJ. The project is on schedule with the completion of Release 2, including this paper. The complete product backlog is available in Table 16.

Release 1

- Research paper
- Presentation deck
- Low-fidelity prototype

Release 2

- Model diagrams
- System design
- High-fidelity prototype

Release 3

- Functional prototype
- Deployed systems

- Quality assurance testing

Appendix C: Product Roadmap

Table 10: Product Roadmap

MNSTDEV	MSYADD	MCSPROJ
Inception • Client Search • Ideation **Planning** • Identify the problem/scope • Evaluate Feasibility **Meeting** • Meeting with the client • Process Immersion **Low-Fidelity Prototyping** • Create wireframe • Conceptualize use process flow **Proposal** • Presentation Deck • Documentation Paper	**Modeling** • Data Flow Diagrams • Entity-relationship Diagrams • Improvement of Use Case Diagram • Sequence Diagrams • State Machine Diagrams • Package Diagrams **Design** • System Design • Database Design **High-fidelity Prototyping** • Figma Model • Responsive Design **Construction Plan** • Repository Generation • Drafting of Documentation Plan • Module Assignment • Team Training	**Development** • Functional Prototype • Documentation **Testing** • Quality Assurance • Client Assessment **Internal Deployment** • Installation • Integration **External Deployment** • User-facing website • Payment Gateway

Appendix D: Teams Meetings

Date: 05/10/2024
Agenda: Onsite Meeting with client & visiting the Phishda team office

Figure 37: Onsite Meeting with Client

Date: 25/10/2024
Agenda: Group meeting

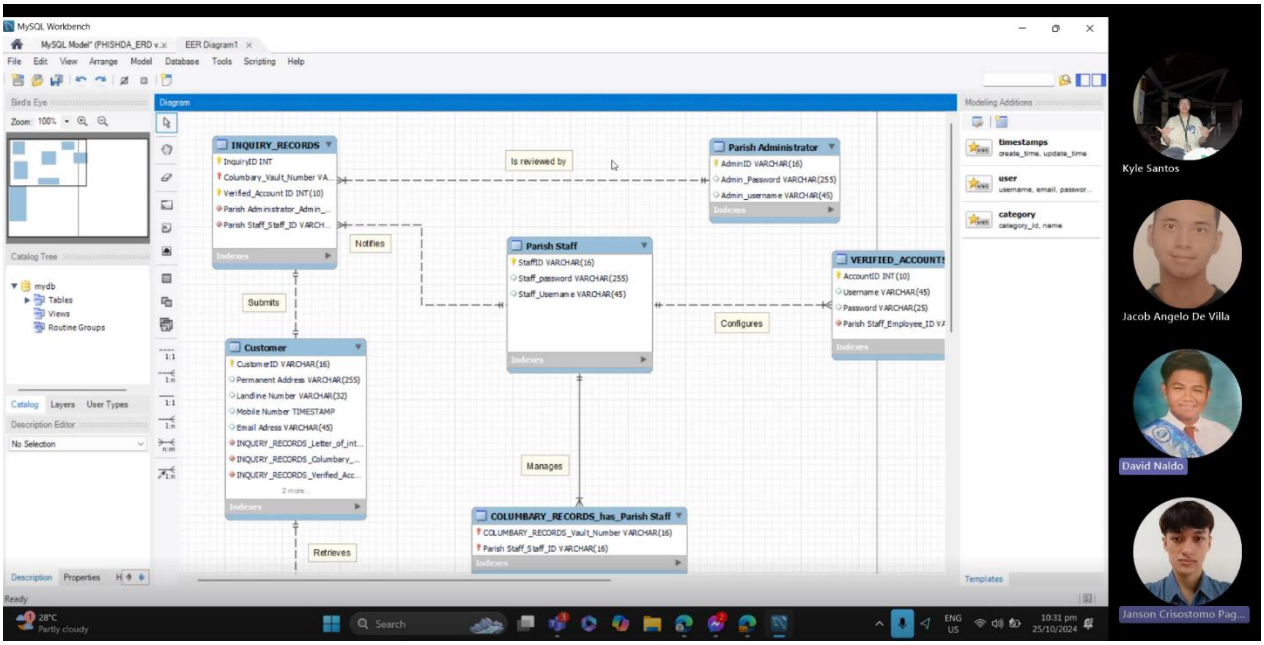

Figure 38: ERD Discussion Meeting

Date: 28/10/2024
Agenda: Group meeting

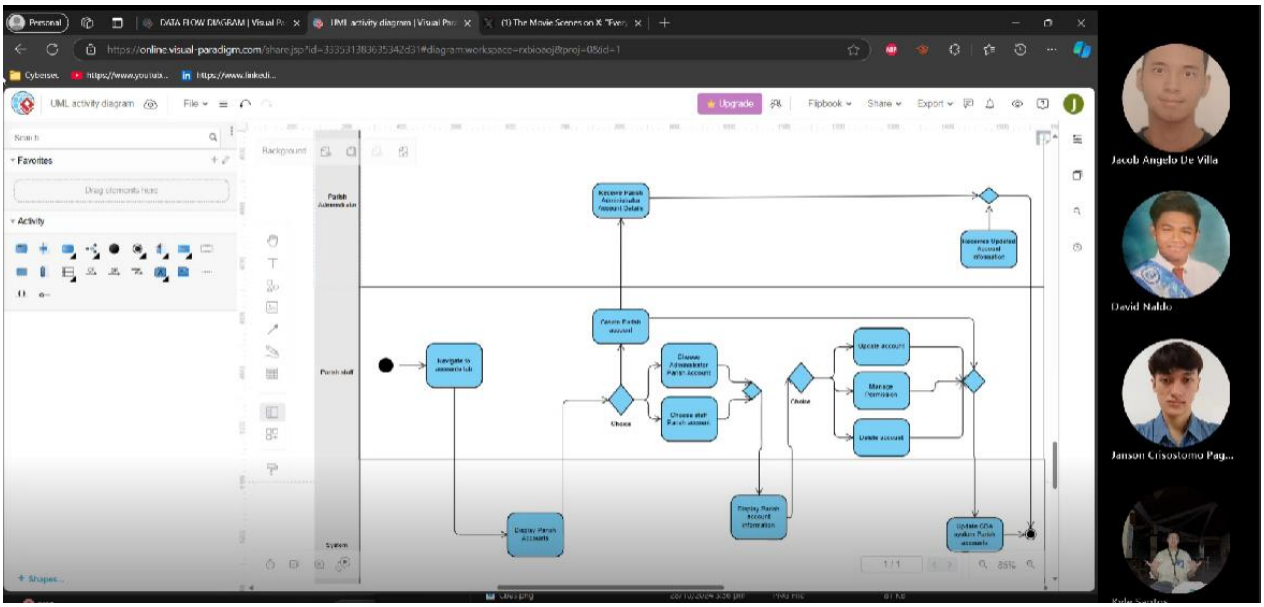

Figure 39: Activity Diagram Discussion Meeting

Date: 24/10/2024
Agenda: Meeting with consultant.

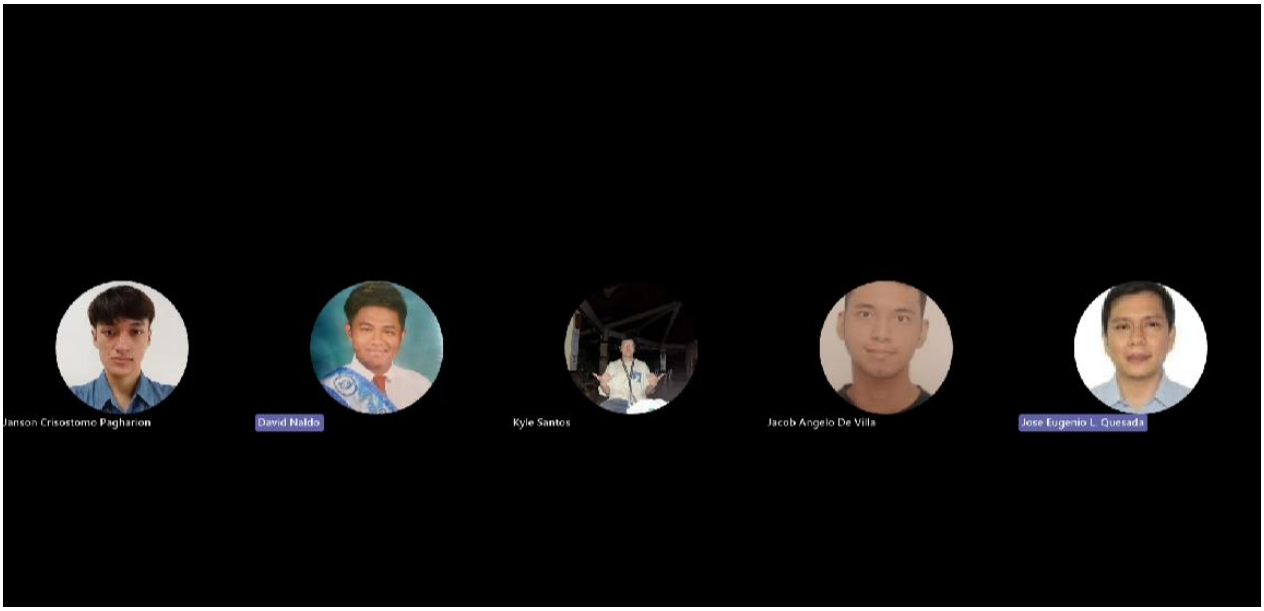

Figure 40: Consultant Meeting

Date: 28/10/2024
Agenda: Final Meeting Before Finals Defense.

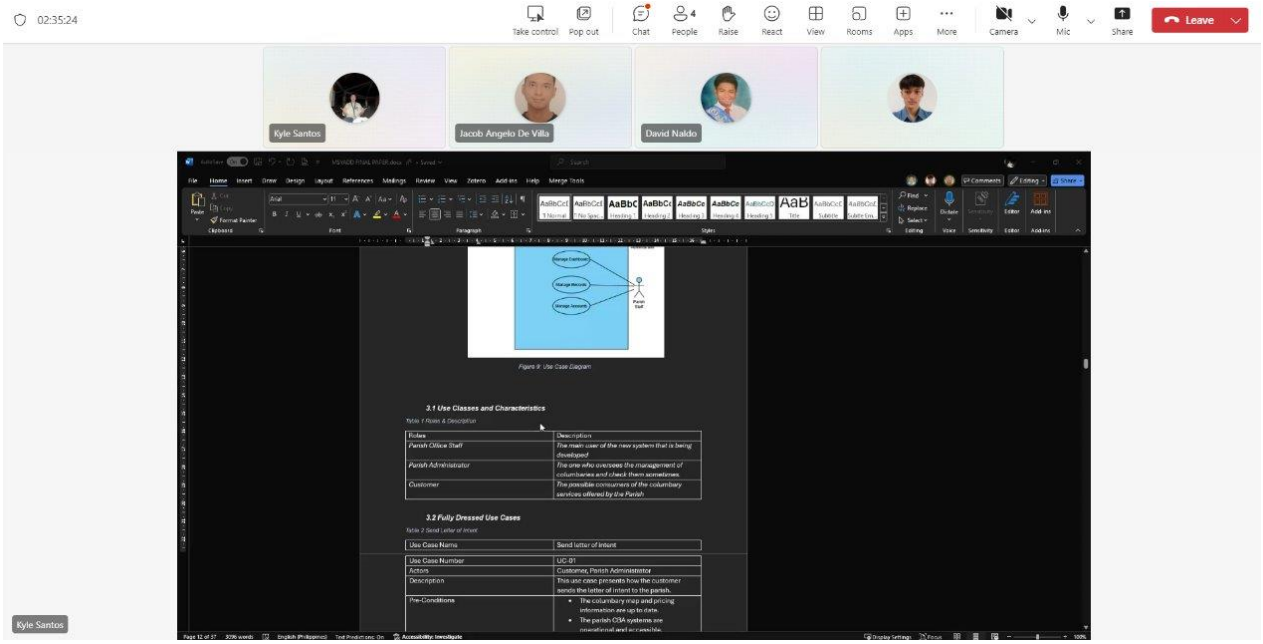

Figure 41: Final Meeting Before Finals Defense