Adventist University of Central Africa

CHURCH MEMBER REGISTRATION AND TRANSFER SYSTEM.

CASE STUDY: ASSOCIATION OF PENTECOSTAL CHURCHES IN RWANDA (ADEPR)

A topic for a final exam project, submitted to the Lecturer Jerome

In web-technology course

By

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Majoring in

Information Management

Introduction

The Association of Pentecostal Churches in Rwanda (ADEPR) is a Christian organization that is committed to promoting the teachings of the Bible and advancing the gospel of Jesus Christ in Rwanda. ADEPR is a community of believers who are united in their faith and share a common vision of serving God and their community.

Recently, ADEPR has introduced a membership transfer program to allow members who have moved from one church location to another to transfer their membership seamlessly. This program is designed to help members maintain their spiritual connection with the church and avoid the difficulties of having to go through the membership process again.

The membership transfer process is straightforward and involves filling out a transfer form and submitting it to the new church. Once the transfer request has been approved, the member can participate in all church activities, including communion and other sacraments. This program is an excellent opportunity for members to continue their spiritual journey with their fellow believers and to contribute to the growth and development of the church.

In conclusion, the introduction of the membership transfer program by ADEPR is a positive step towards ensuring that members remain connected to their church even when they relocate to a different location. This program will help to strengthen the bond between members and their church, and promote the growth and development of ADEPR as a community of believers.

Modeling the Current membership transfer system

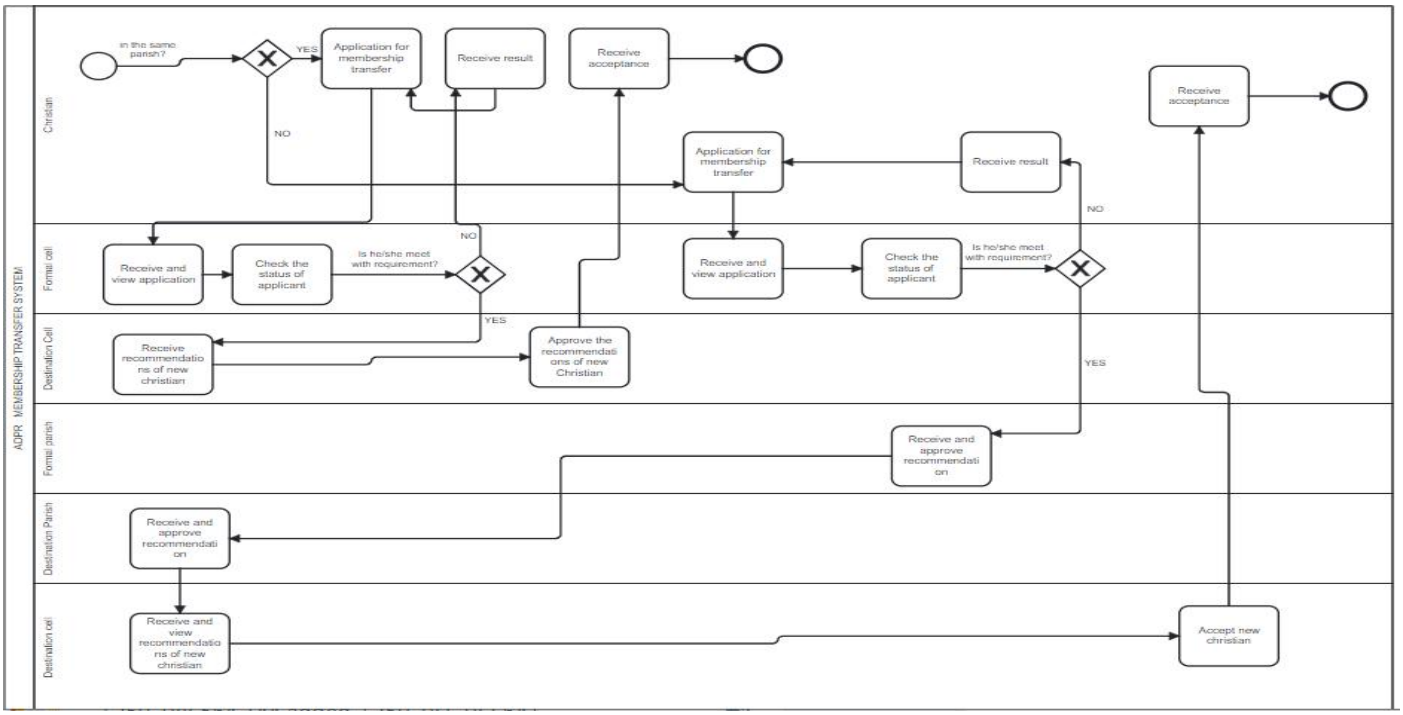


Figure 1: ***church member registration and transfer system***

THE FUNCTION REQUIREMENTS

This system was working in two phases where the first phase was happening at the time of Christian's wish to change the cell to another cell but all those cells belong to the same parish, here the involvement of the parish will not be needed.

The second phase will occur when the Christian wish to change the cell to another cell but the destination cell belong to the parish which is different from the formal parish here the involvement of both parish will be needed.

The system should contribute to delete the christian who no longer member of formal church.

The system should help the user to search for quick access to services.

The system should update the services where it needed.

The system should help the admin to approve the request.

The system should help the user to request the transfer.

the system should help Christian to applies the membership transfer to the formal cell.

the system should help the formal cell to receives the Christian's application and views the application.

the system should help the formal cell checks the if the requirements are fulfilled and check Christian's status.

the system should help If the requirements are insufficient or the status is not clear application is returned back to Christian.

If the requirements and the status are fulfilled the formal cell will send Christian's application to the destination cell in the same parish where the Christian wishes to relocate.

the system should help to record all the necessary information of Christian.

the system should help the destination cell approves and admits the new Christian.

the system should help: the destination cell to send the response to the Christian

the system should help the Christian receives the response from the destination cell.

the system should help Christian applies the membership transfer to the formal cell.

the system should help the formal cell to receives the Christian's application and views the application.

the system should help the formal cell checks if the requirements are fulfilled and check Christian's status.

If the requirements are insufficient or the status is not clear application is returned to Christian.

If the requirements and the status are fulfilled the formal cell will send the Christian's application to the formal parish where the Christian was belong.

the system should help the formal parish receives and approves the application.

the system should help the formal parish sends the recommendation to the destination parish.

the system should help the destination parish to receives the recommendation.

the system should help the destination parish approves the recommendation.

the system should help the destination parish sends the recommendation to the destination cell.

the system should help the destination to receives the recommendation for a new Christian from the parish.

the system should help the destination cell to confirms the new Christian.

the system should help the destination cell to sends the response to the Christian.

the system should help christian to receive the response.

NON FUNCTION REQUREMENT FOR THE SYSTEM.

Security

Privacy

Reliability

Mentainablity

Userbility

learnability

PART II

PROBLEMS WITH THE CURRENT SYSTEM

Performance

Throughput

- Lengthy processing time: A problem faced by ADEPR in terms of membership transfer is the lengthy processing time required to complete the transfer. This can cause frustration among members who may need to transfer urgently, leading to dissatisfaction with the church's services.

Response time

- Inefficiency in communication: ADEPR may be facing challenges in communicating membership transfer requests effectively and efficiently between different branches or regions. This may lead to delays in response time, as requests may not be processed in a timely manner.

- Lack of standardized procedures: ADEPR may not have standardized procedures in place for handling membership transfer requests, which can cause confusion and delays. For instance, different branches or regions may have different processes for handling membership transfers, resulting in inconsistencies and delays.

- Limited technological infrastructure: ADEPR may have limited technological infrastructure to support the efficient transfer of membership data between branches or regions. This may include outdated software systems or limited access to reliable internet connections, which can slow down the processing of membership transfer requests.

Information

Input: Paper-based system: A paper-based system can be time-consuming and prone to errors due to manual data entry.

Output: ADEPR's current system for transferring members from one church to another is inefficient and ineffective, leading to delayed and inaccurate information output.

Storage: The current process relies on manual record-keeping, which is prone to errors and can result in lost or misplaced records.

Economics

The System cost the Christian the transport and Airtime to access the church elders.

Control

The current system may involve manual processes, which can be time-consuming and prone to errors. Without proper controls, there may be inconsistencies in how membership transfer services are scheduled, managed, and recorded.

Efficiency

Current system is not efficient for: pastors, Church elders, and Christians. therefore, it needs improvement.

IMPLIMENTATION OF THE SYSTEM

This system is implemented by using

- Spring Boot application and Spring mvc framework
- Model
- View
- Controller
- Repository
- Thymeleaf

- Boostrap
- Html
- Css
- Hibernate

FRAMEWORKS

- Spring Jpaframework
- Spring mvc framework

DATABASE USED IS

- MYSQL (xammp)

CODE EDITOR USED

- Visual studio code.

LIBRARIES THAT USED

DEPENDANCES

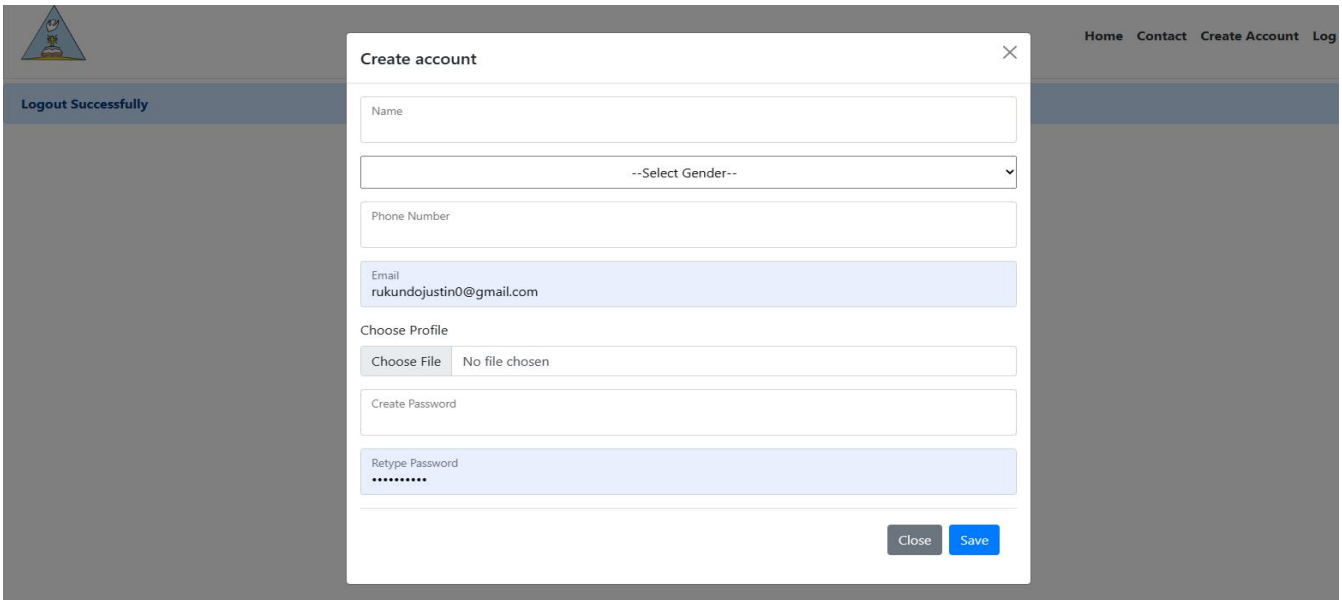
- Spring devtool for refreshing server
- MySQL for the database
- Spring web for interaction with the web-pages
- Spring email for sending email to the user
- Thymeleaf for displaying data from database
- Spring jpa for working together with the MySQL to take data to database

THE SYSTEM IS HAVING TWO DASHBOARD
1 admin dashboard (localhost:8000/admin)
2 user dashboard (localhost:8000)
LIST OF ABBREVIATION

- **CSS :Cascading Style Sheet**
- **HTML: hyper text markup language**
- **MVC: Model View Cntroller**

LET START WITH VALIDATION AND AUTHENTICATION.

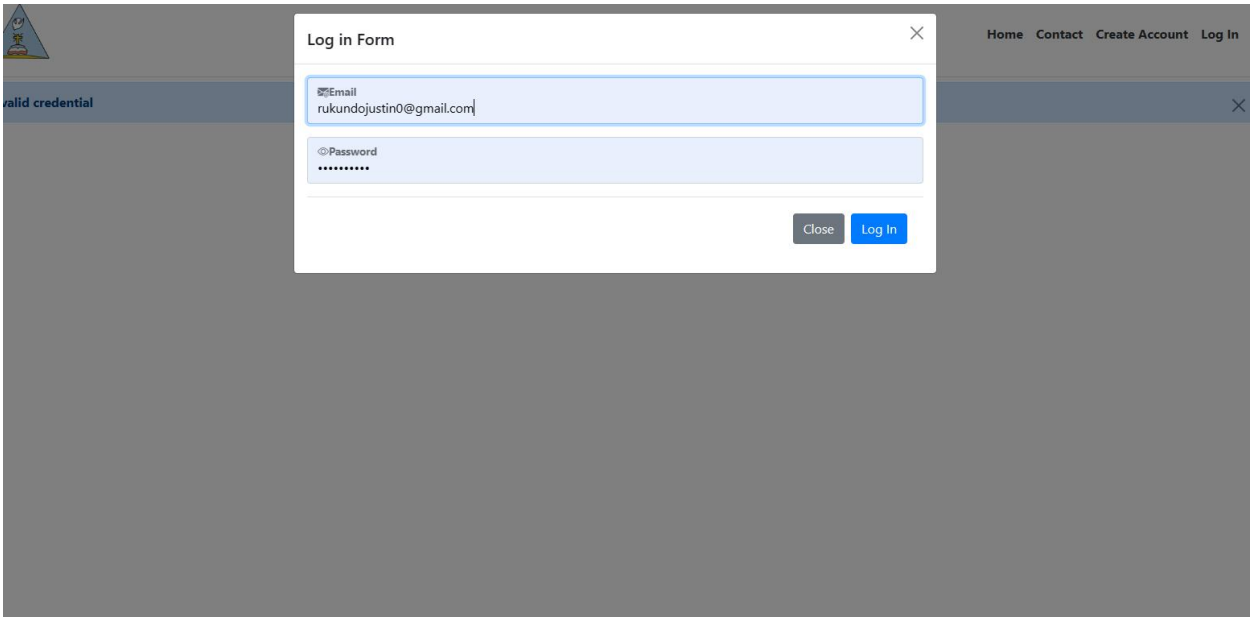
IN CREATE ACCOUNT THE USER WILL ALSO APLOAD HIS PHOTO



2. LOGIN PAGE

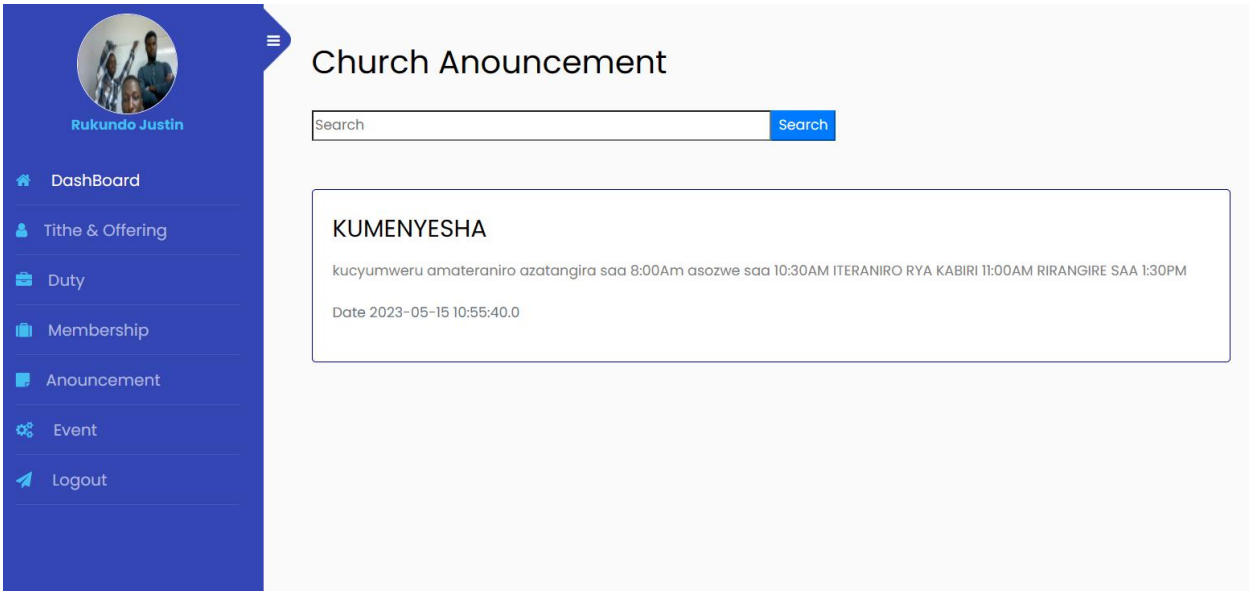
3. USER LOGIN AS USER WITH EMAIL AND INCRIPTED PASSWORD

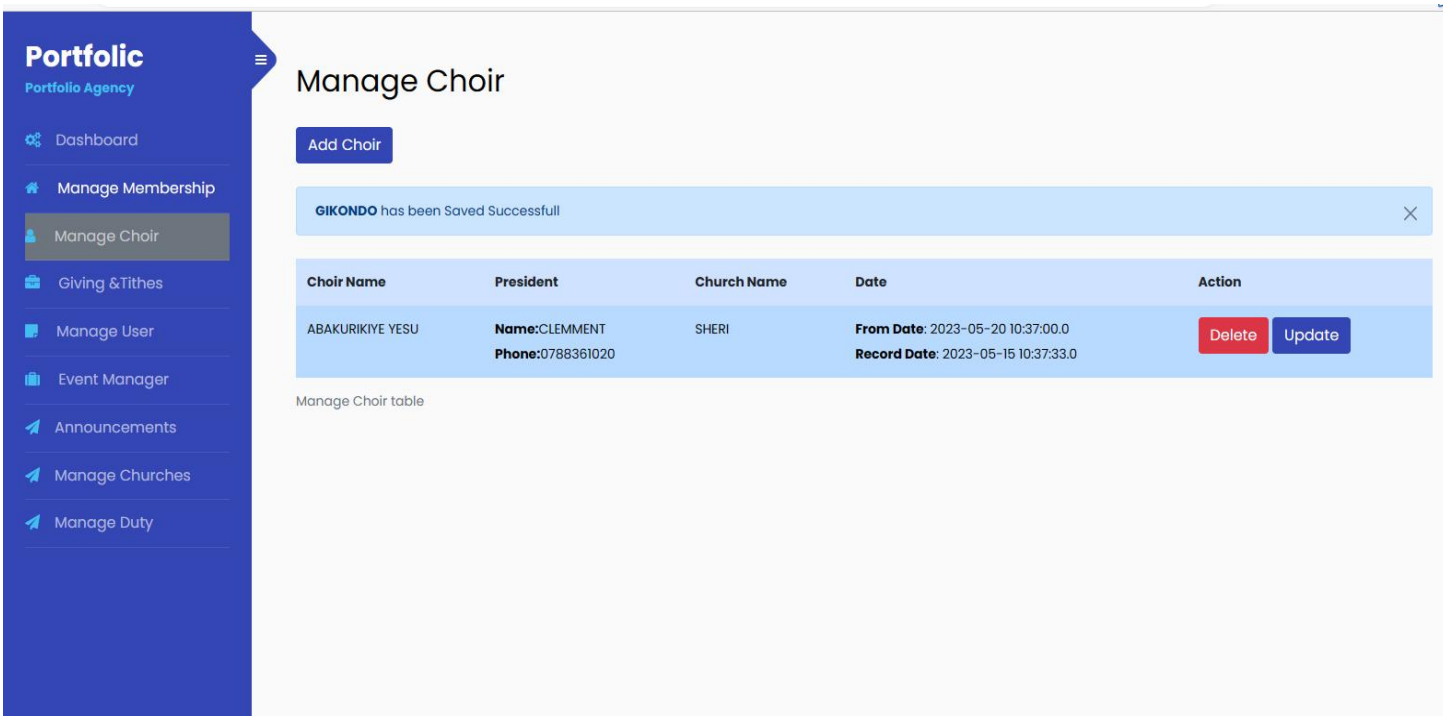
NB. IF YOU WANT TO LOGIN AS ADMIN YOU WRITE IN BROWSER localhost:8000/admin



3.PAGINATION

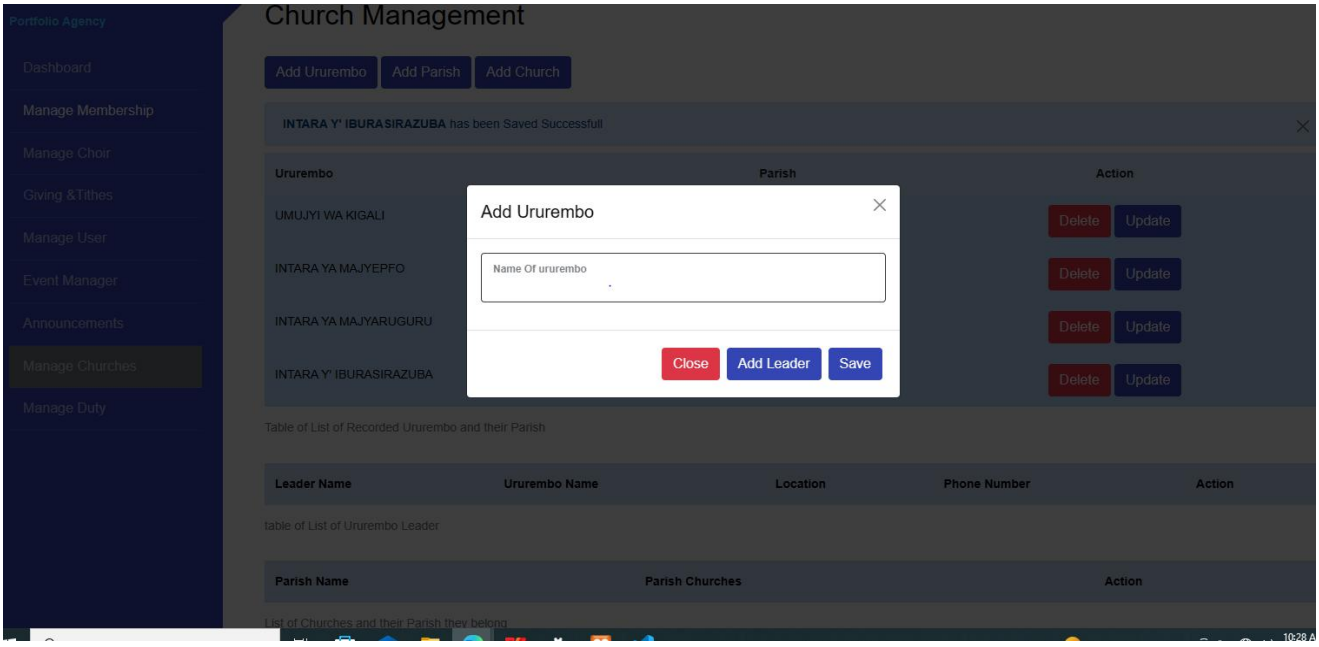
4.SEARCH FILTERING



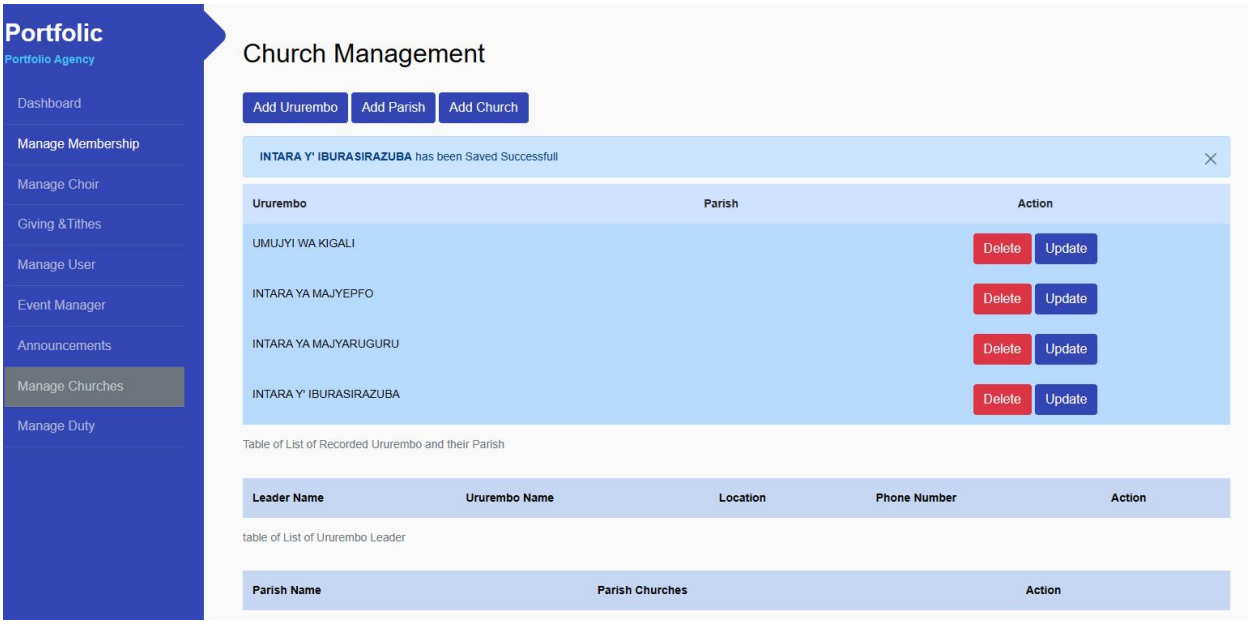


on this Admin dashboard the admin can per all operation of CRUD where he/ she can add tithe,manage user,add announcement to church,manage churches, manage event and assign duties to to christian.

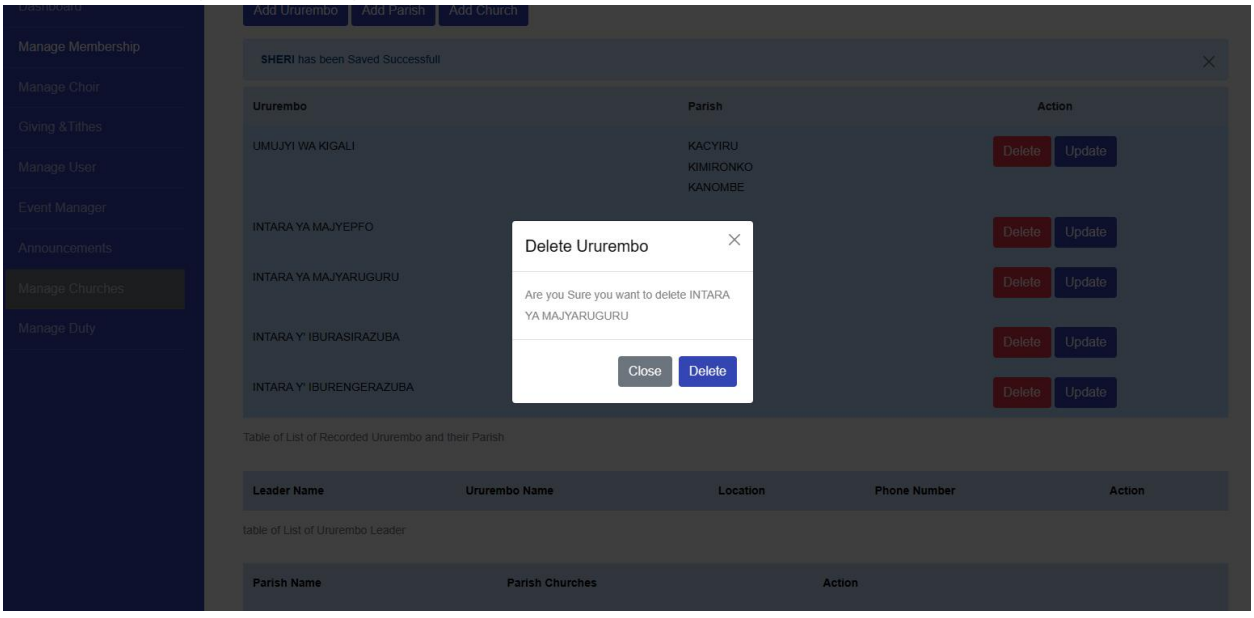
LET
SEE.

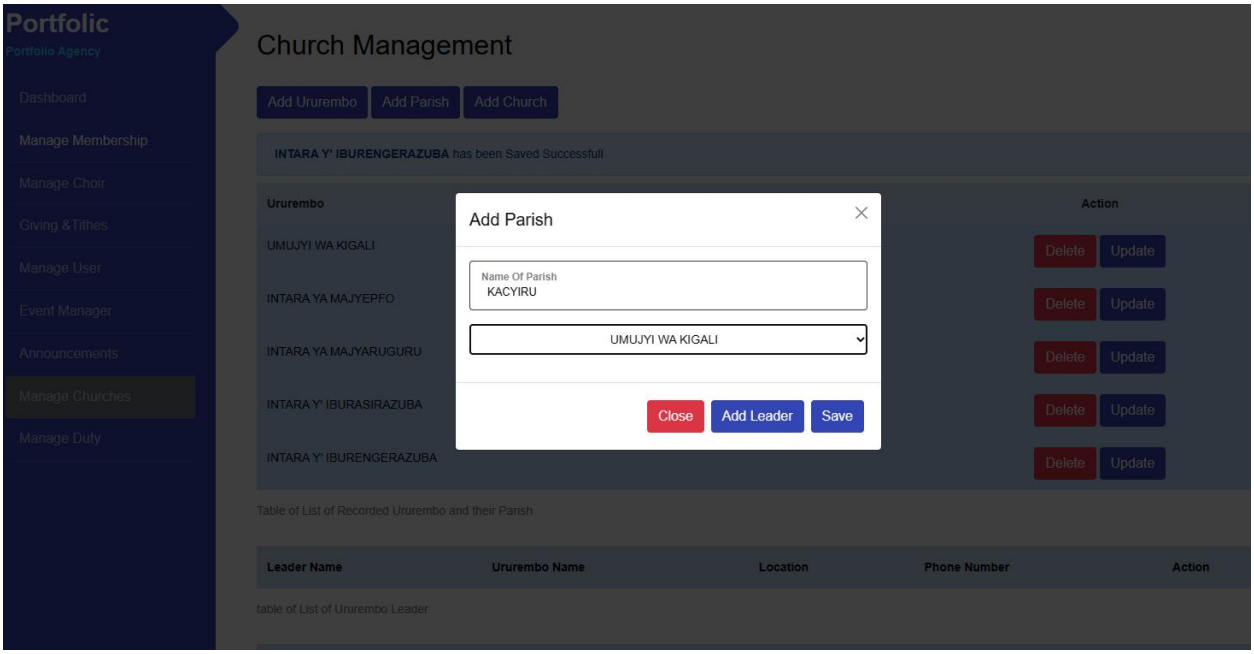


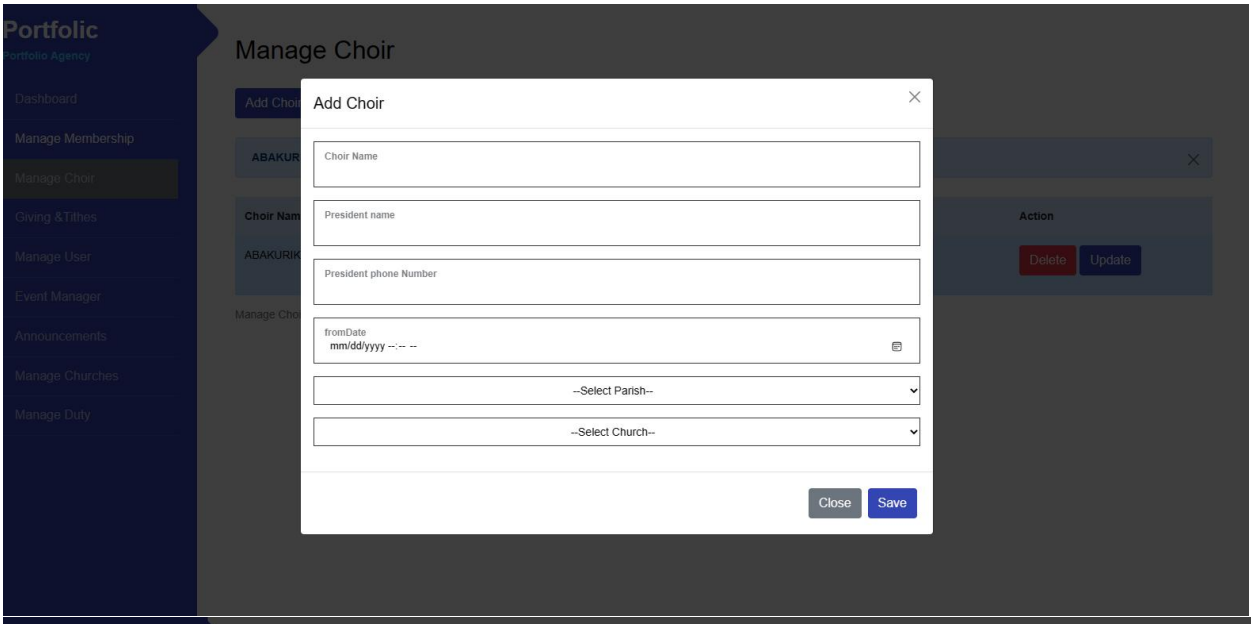
DISPLAYE URUREMBO(PARISH)



DELETE PARISH(URUREMBO)




Portfolic
Portfolio Agency
Dashboard
Manage Membership
Manage Choir
Giving &Tithes
Manage User
Event Manager
Announcements
Manage Churches
Manage Duty
Church Management
Add Ururembo
Add Parish
Add Church
INTARA Y' IBURENGERAZUBA has been Saved Successfull
Ururembo
Action
UMUJYI WA KIGALI
INTARA YA MAJYEPFO
INTARA YA MAJYARUGURU
INTARA Y' IBURASIRAZUBA
INTARA Y' IBURENGERAZUBA
Delete
Update
Add Parish
Name Of Parish
KACYIRU
UMUJYI WA KIGALI
Close
Add Leader
Save
Table of List of Recorded Ururembo and their Parish
Leader Name
Ururembo Name
Location
Phone Number
Action
table of List of Ururembo Leader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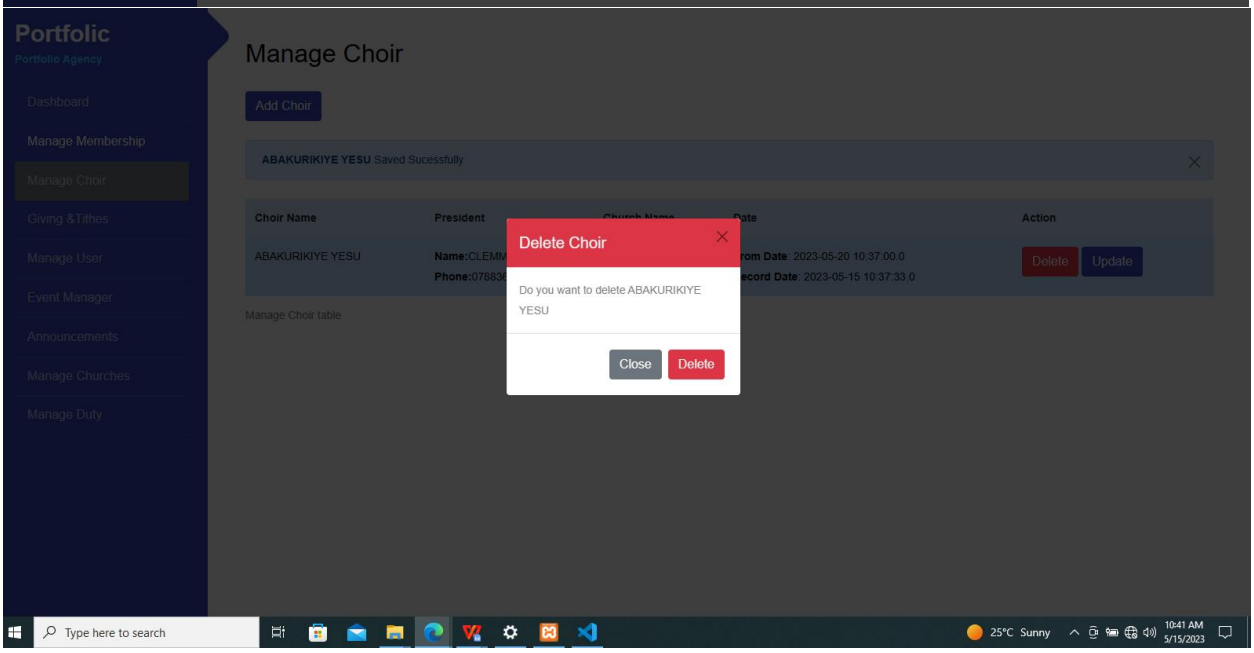
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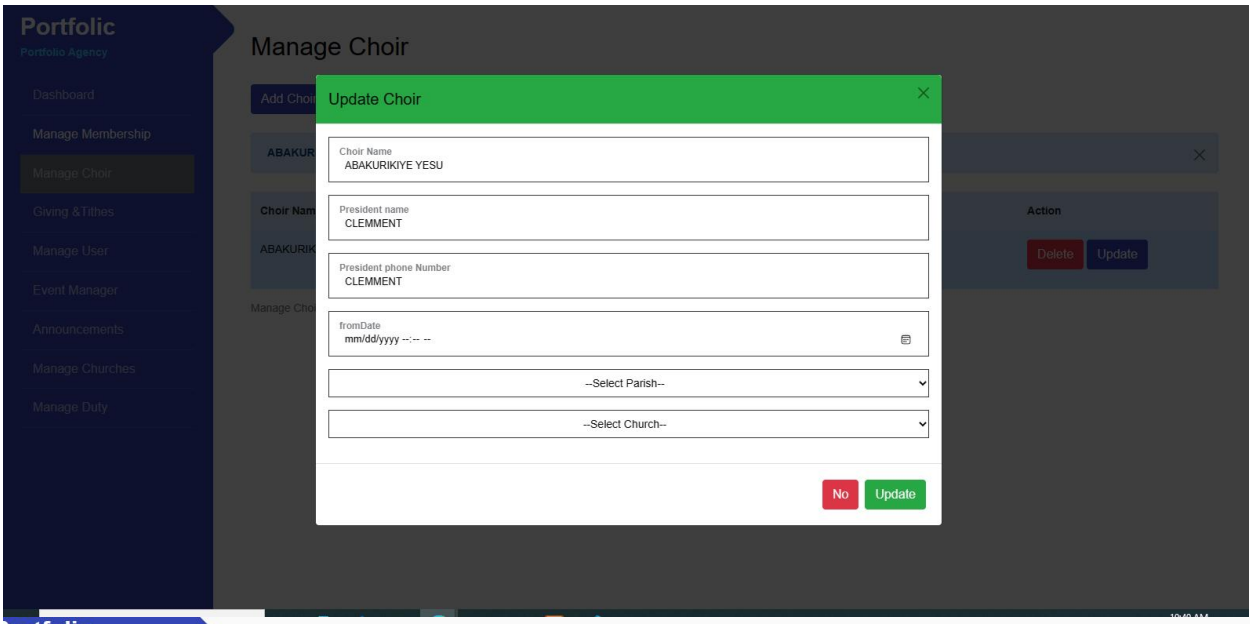
Add Choir
ABAKURIKIYE YESU Saved Sucessfully
Choir Name
President
Action
ABAKURIKIYE YESU
Delete
Update
Manage Choir table
Delete Choir
Do you want to delete ABAKURIKIYE YESU
Close
Delete
Type here to search
25°C Sunny
10:41 AM
5/15/2023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Add Choir
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Choir Name
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President name
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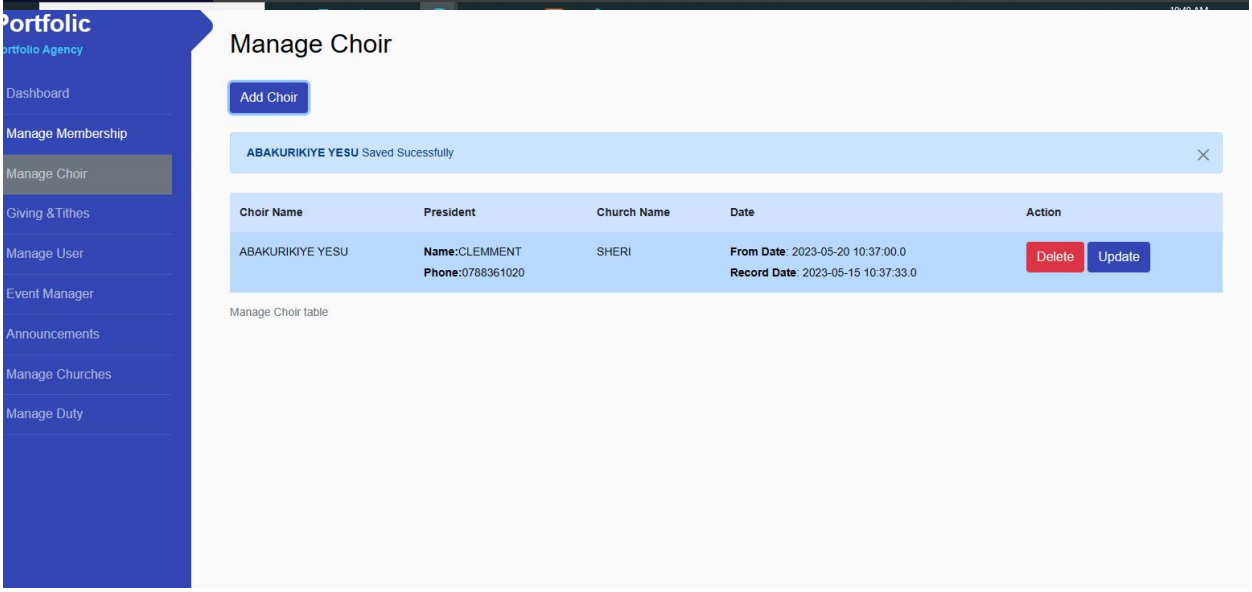
--Select Parish--
--Select Church--
No
Update
Action
Delete
Update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Manage Duty
Manage Choir
Add Choir
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Choir Name
President
Church Name
Date
Action
ABAKURIKIYE YESU
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Phone:0788361020
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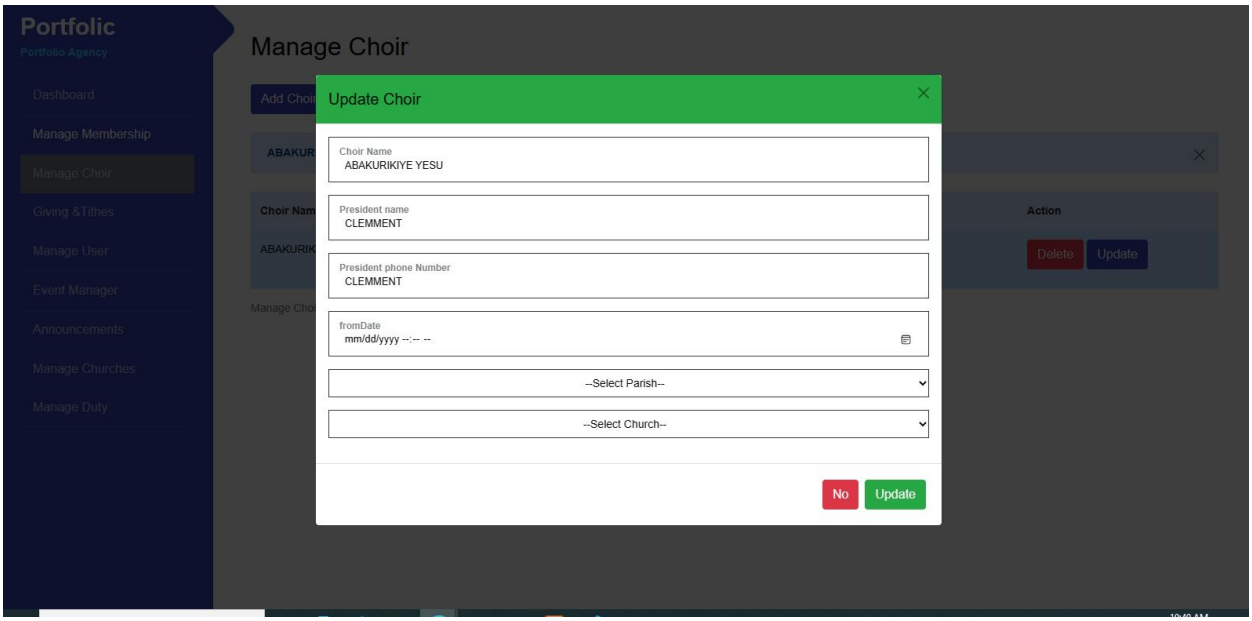
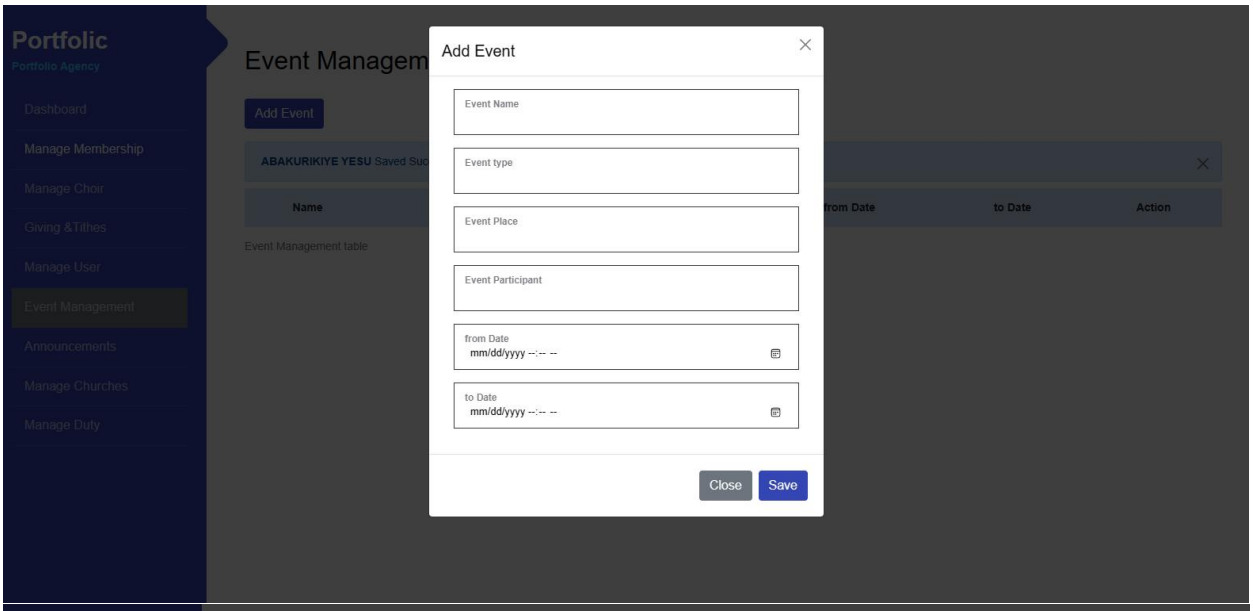
Record Date: 2023-05-15 10:37:33.0
Delete
Update
Manage Choir table



HERE IS THE ALL CRUD OPERATION FOR THE EVENT MANAGMENT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Manage Duty
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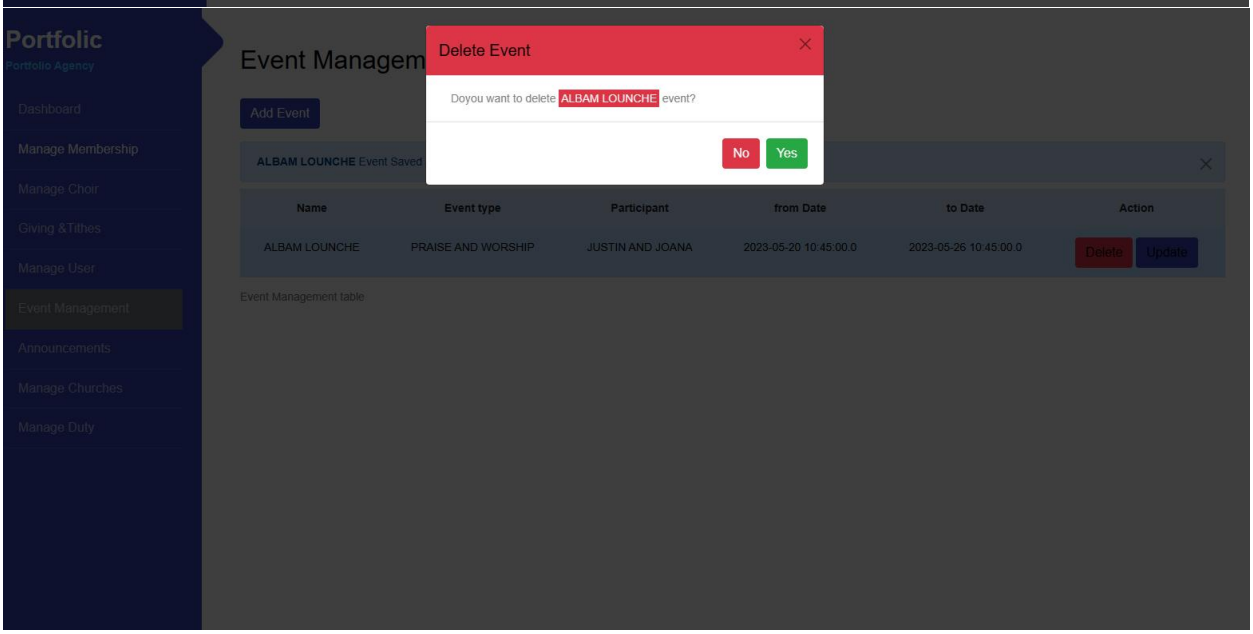
Name
to Date
Action
Event Management table
Add Event
Event Name
Event type
Event Place
Event Participant
from Date
mm/dd/yyyy --:-- --
to Date
mm/dd/yyyy --:-- --
Close
Save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Manage Membership
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Announcements
Manage Churches
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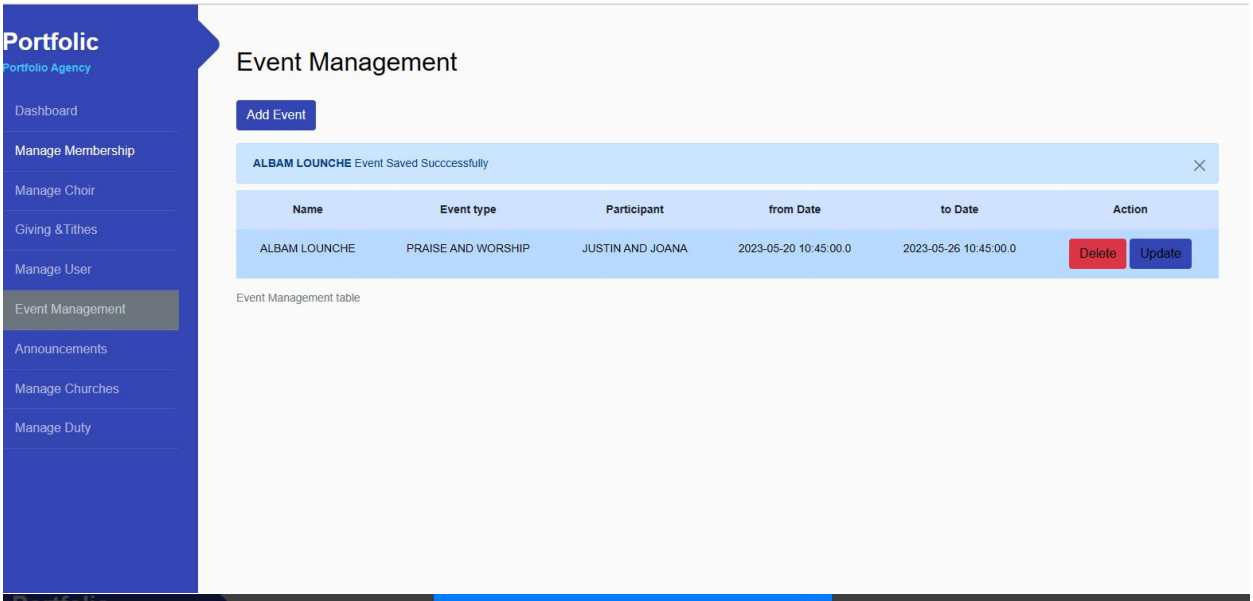
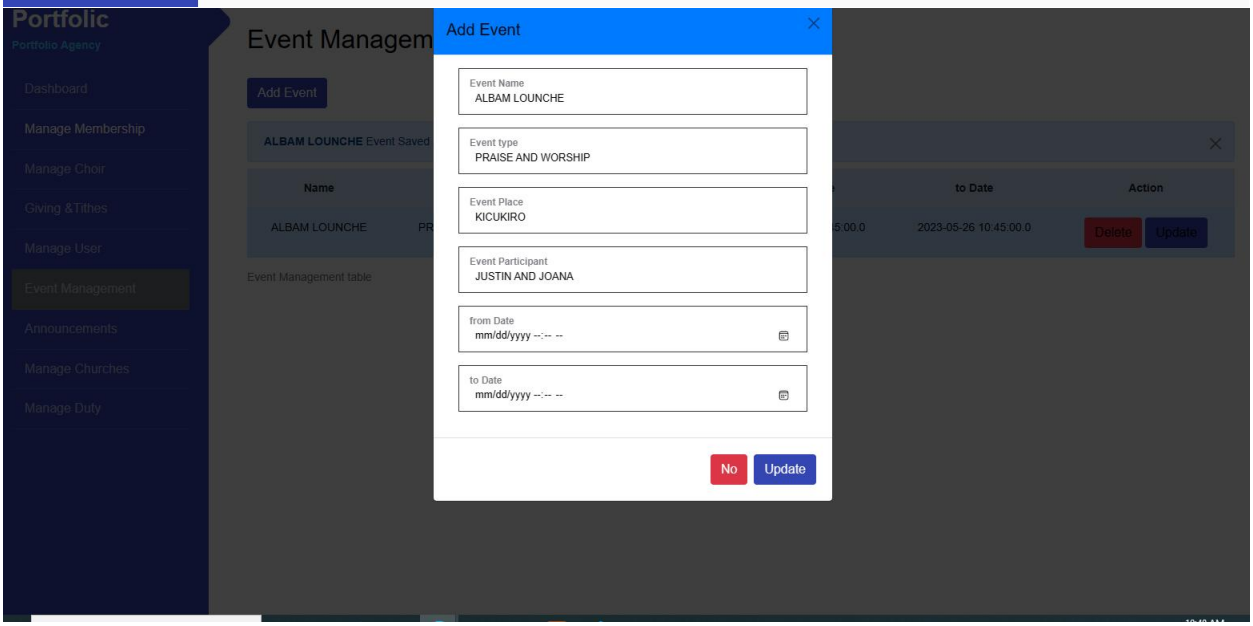
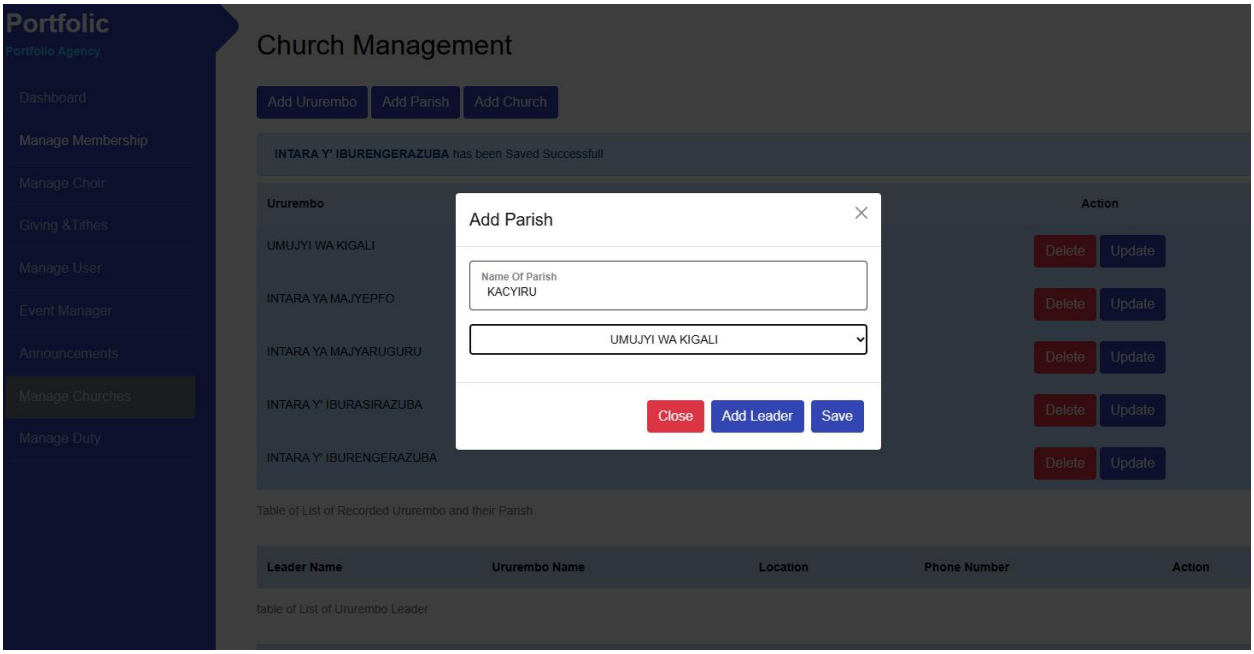
Add Event
ALBAM LOUNCHE Event Saved
Name
Event type
Participant
from Date
to Date
Action
ALBAM LOUNCHE
PRAISE AND WORSHIP
JUSTIN AND JOANA
2023-05-20 10:45:00.0
2023-05-26 10:45:00.0
Delete
Update
Event Management table
Delete Event
Doyou want to delete ALBAM LOUNCHE event?
No
Yes

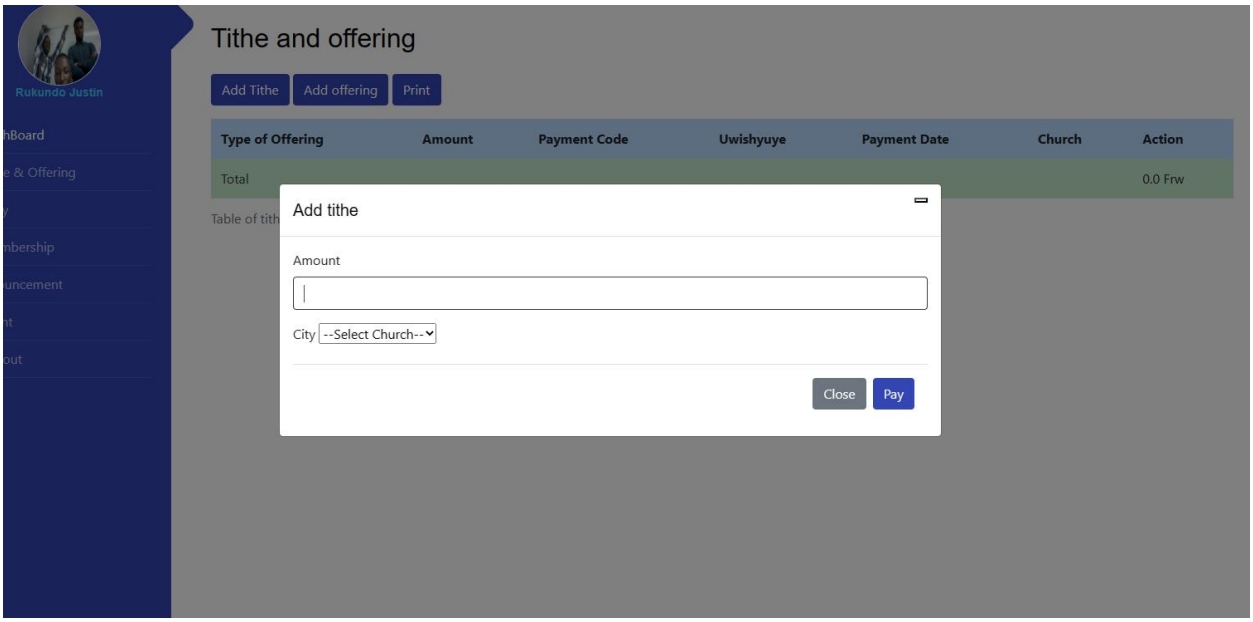




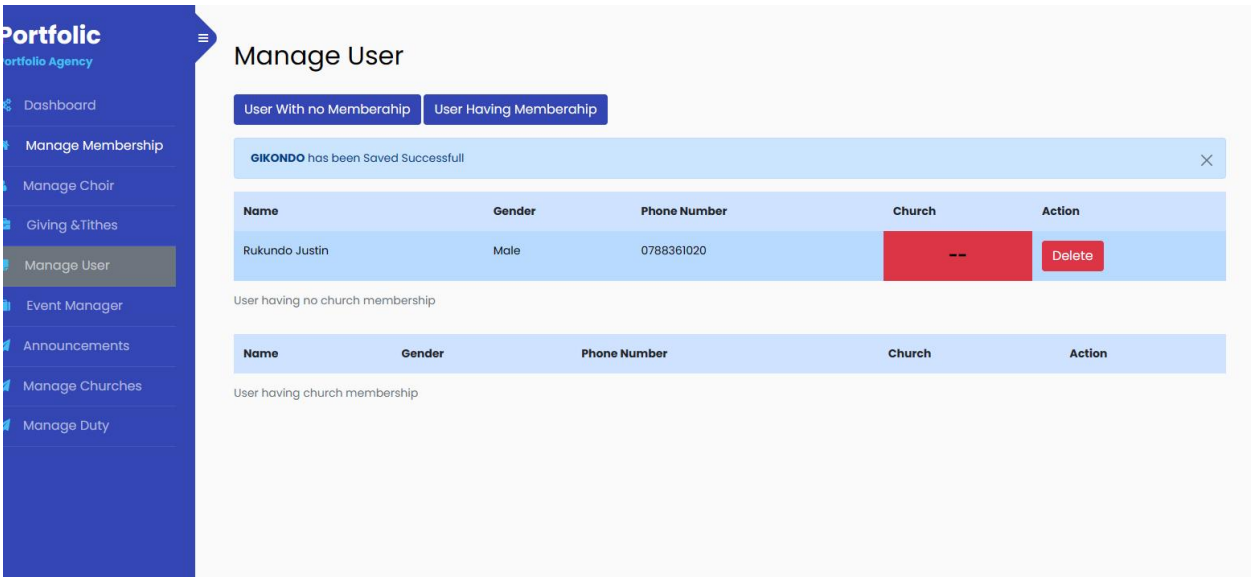
ADDING PARISH



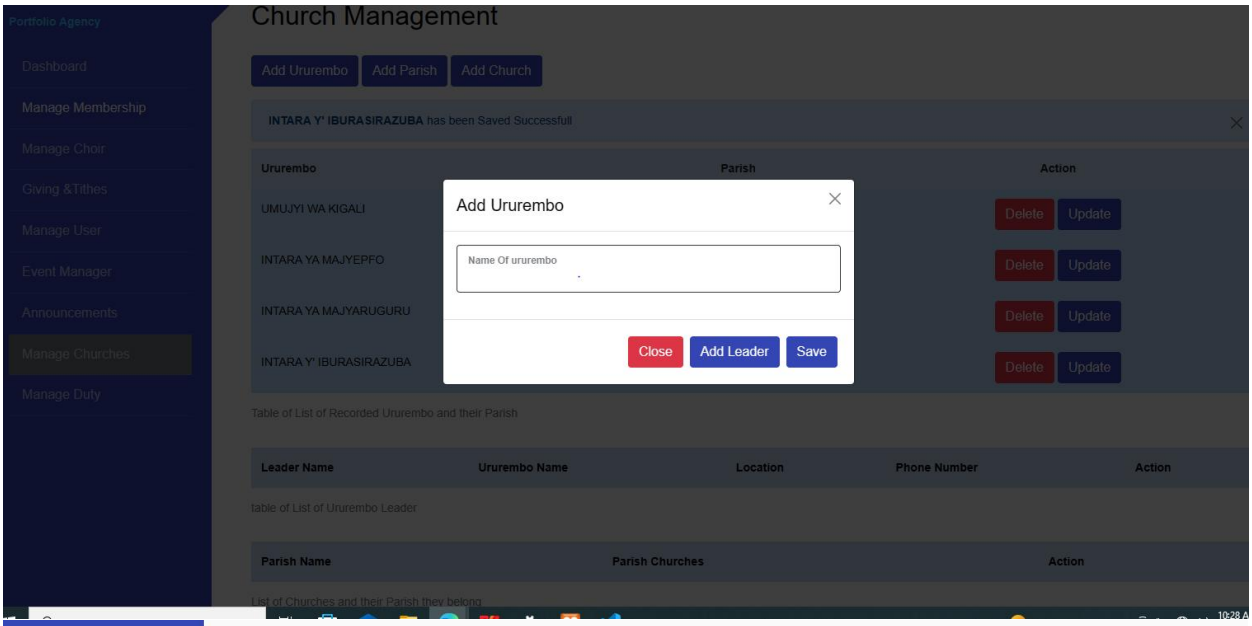
ADDING TITHE



Admin managing christian



Add ururembo with all CRUD


Portfolio Agency
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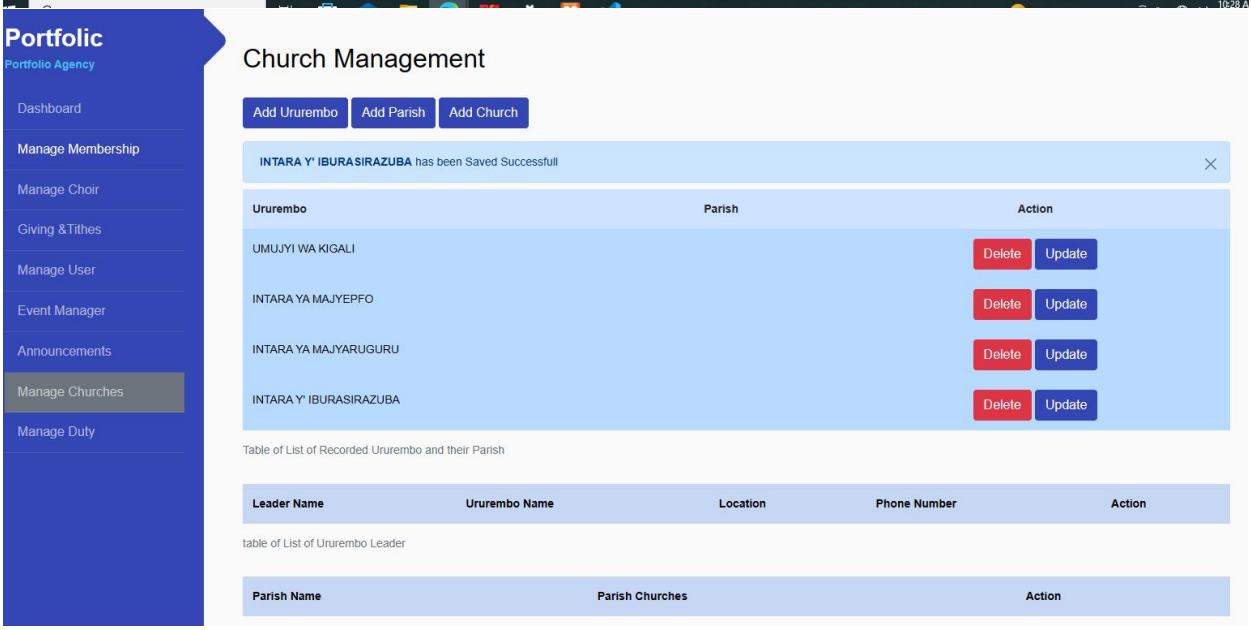
Manage User
Event Manager
Announcements
Manage Churches
Manage Duty
Add Ururembo
Add Parish
Add Church
INTARA Y' IBURASIRAZUBA has been Saved Successfull
Ururembo
Parish
Action
UMUJYI WA KIGALI
INTARA YA MAJYEPFO
INTARA YA MAJYARUGURU
INTARA Y' IBURASIRAZUBA
Delete
Update
Add Ururembo
Name Of ururembo
Close
Add Leader
Save
Table of List of Recorded Ururembo and their Parish
Leader Name
Ururembo Name
Location
Phone Number
Action
table of List of Ururembo Leader
Parish Name
Parish Churches
Action
List of Churches and their Parish they belong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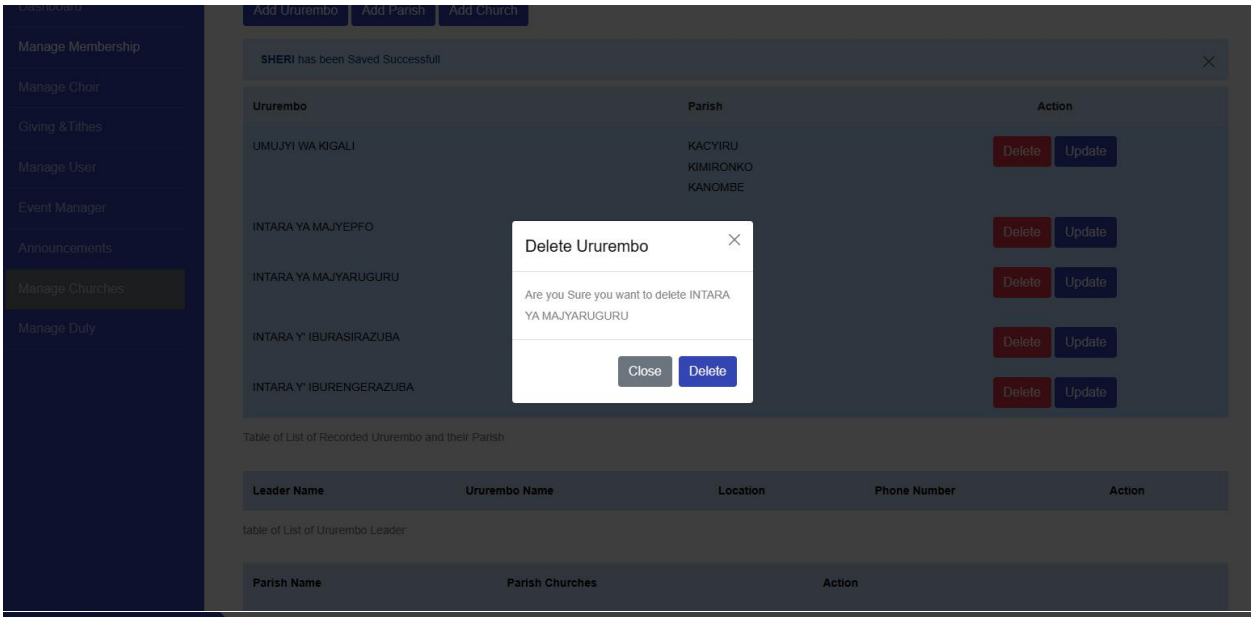
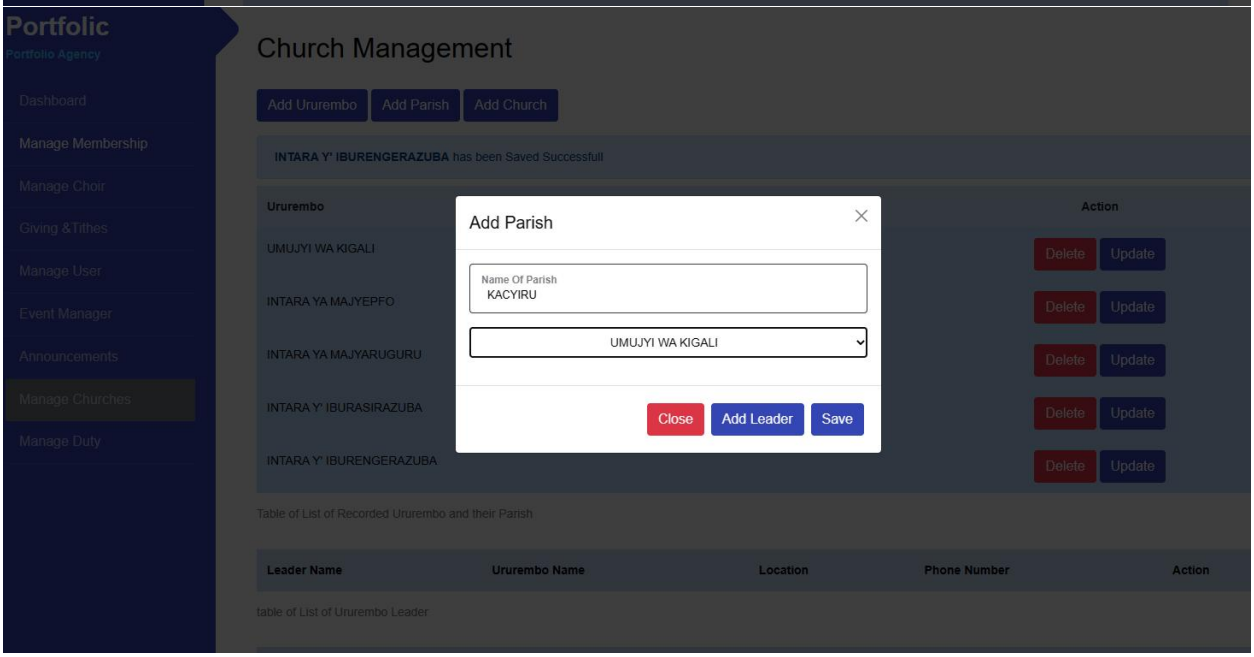
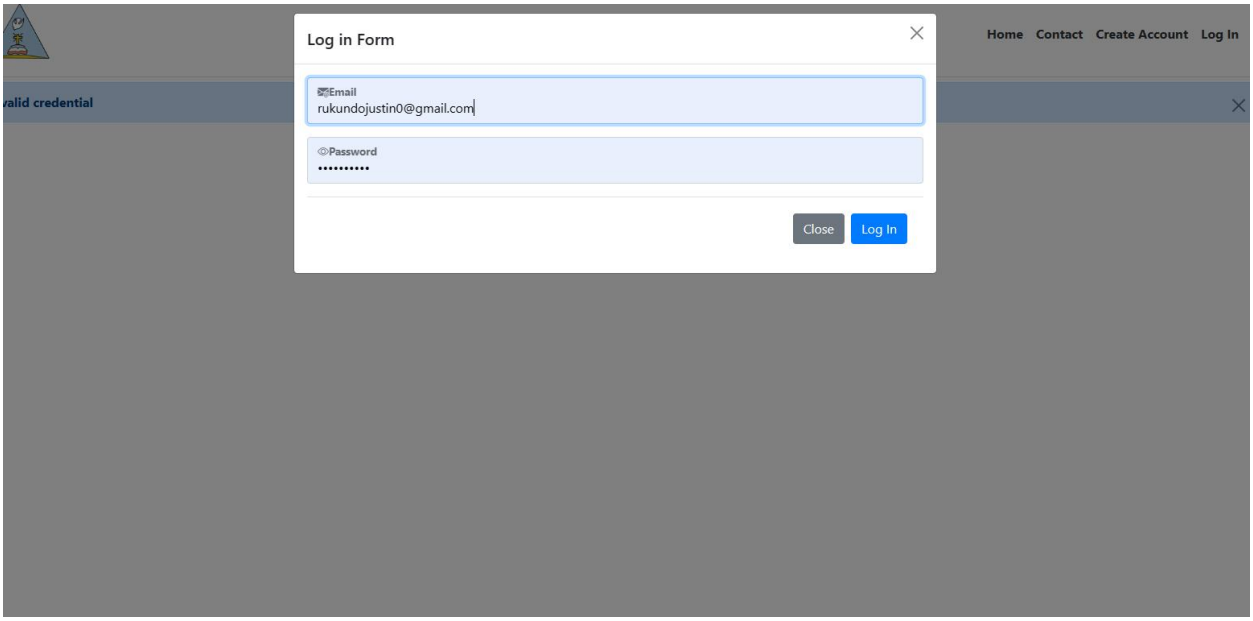
Parish Churches
Action



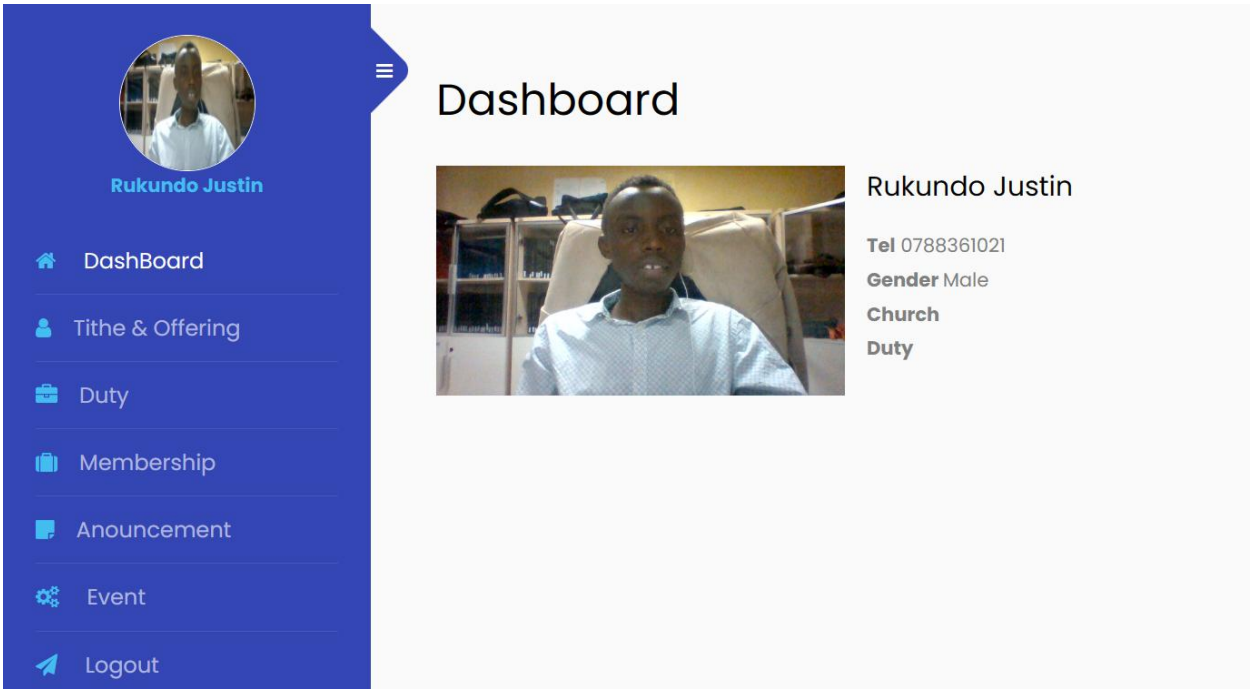


THIS IS ENOUGH FOR THE ADDMIN SIDE LETS LOOK ON THE USER SIDE

LOGIN PAGE FOR USER

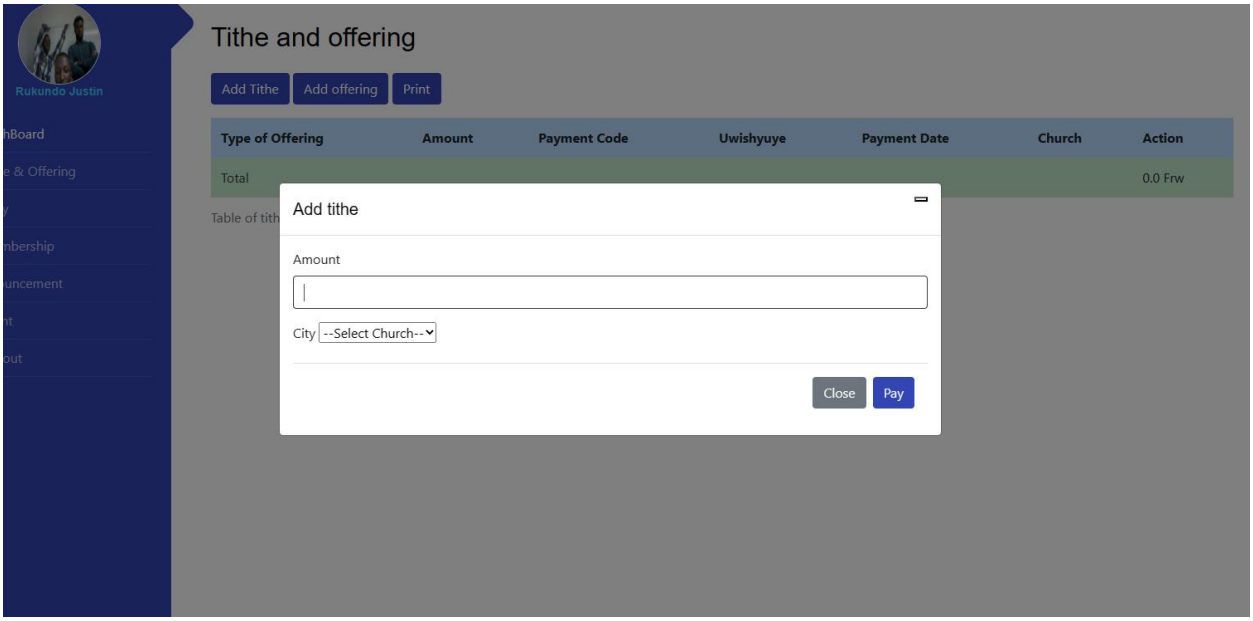


USER DASHBOARD

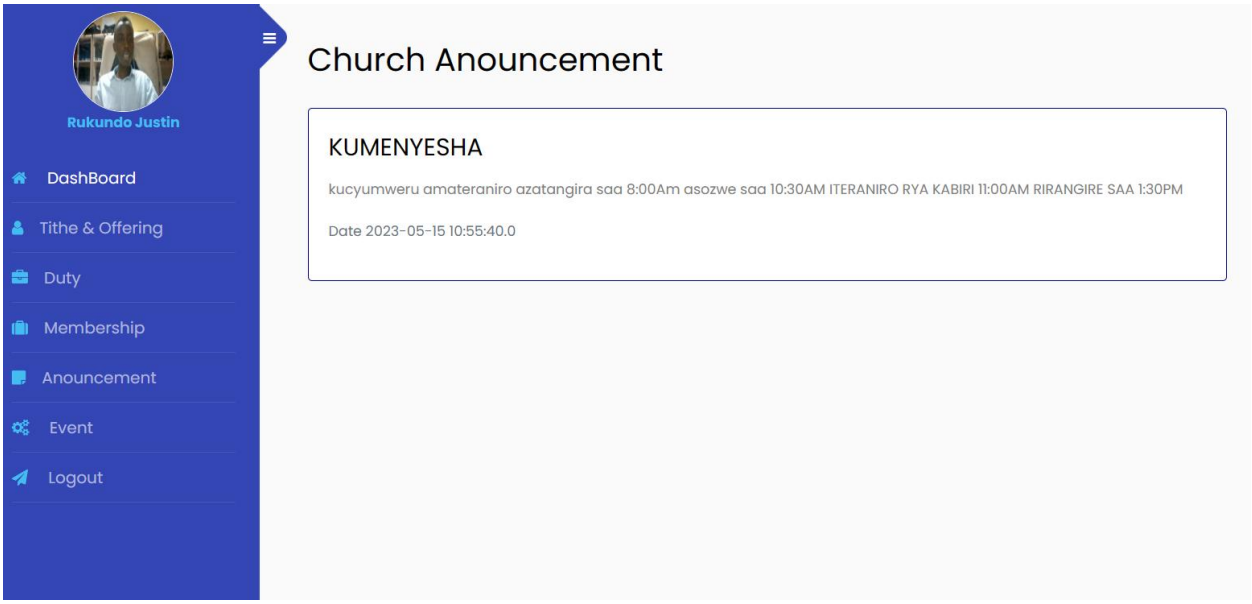


LETS LOOK ALL THE FUNCTIONALITIES OF THE USER(CHRISTIAN) AND HERE THE USER CAN PRINT HIS/ HER PDF.

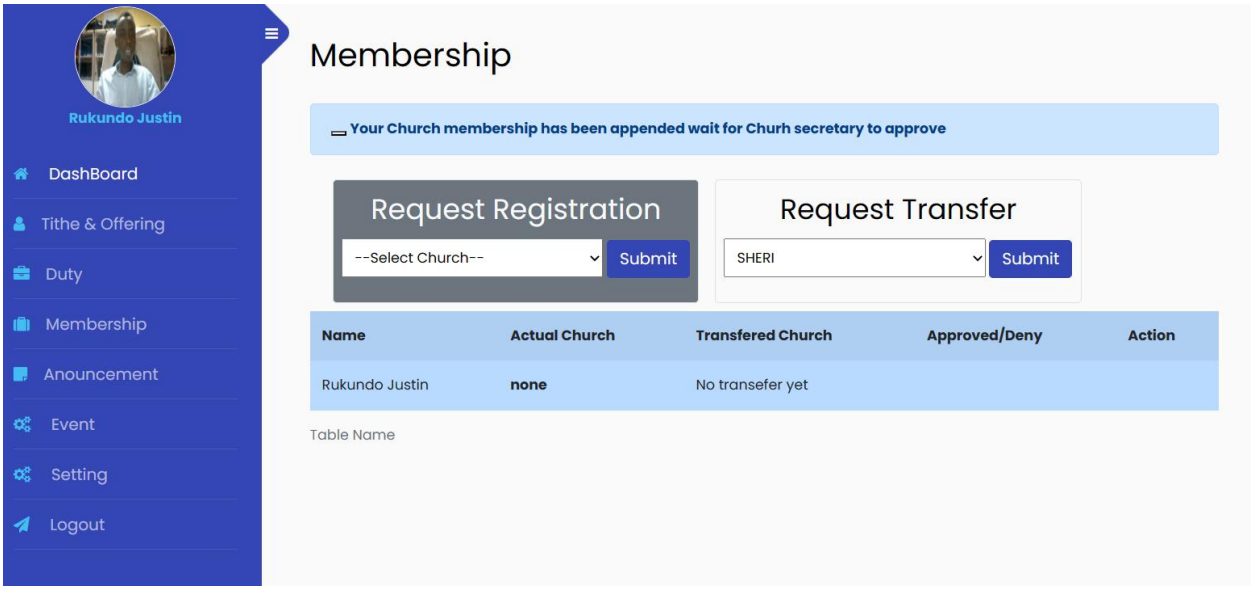
1.ADDING TITHE



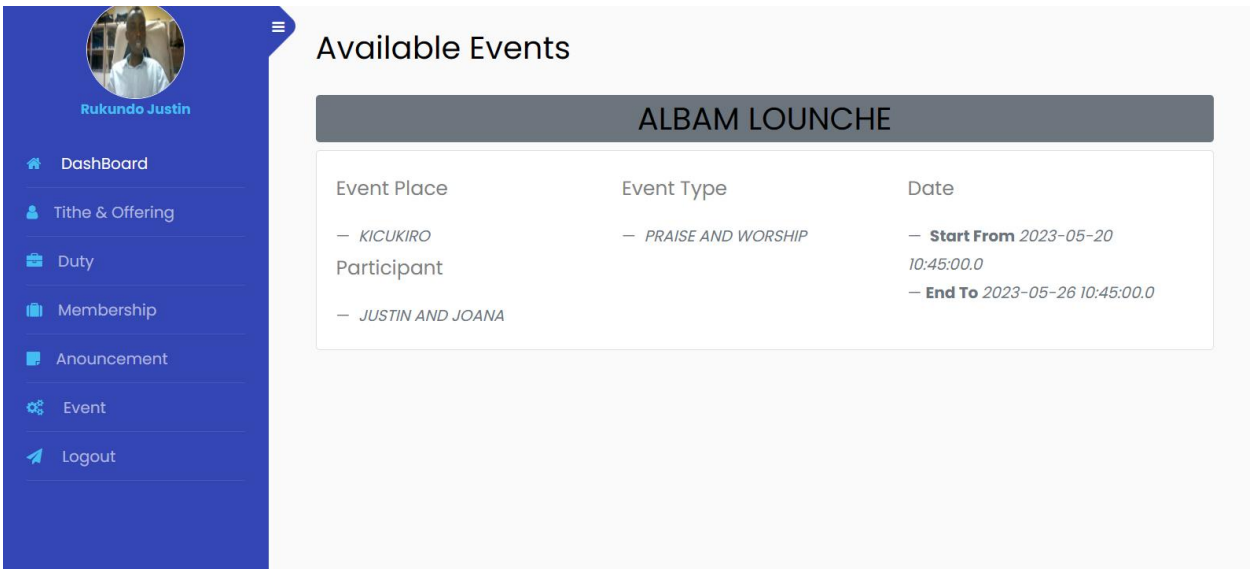
THE ANNOUNCEMENT BOARD



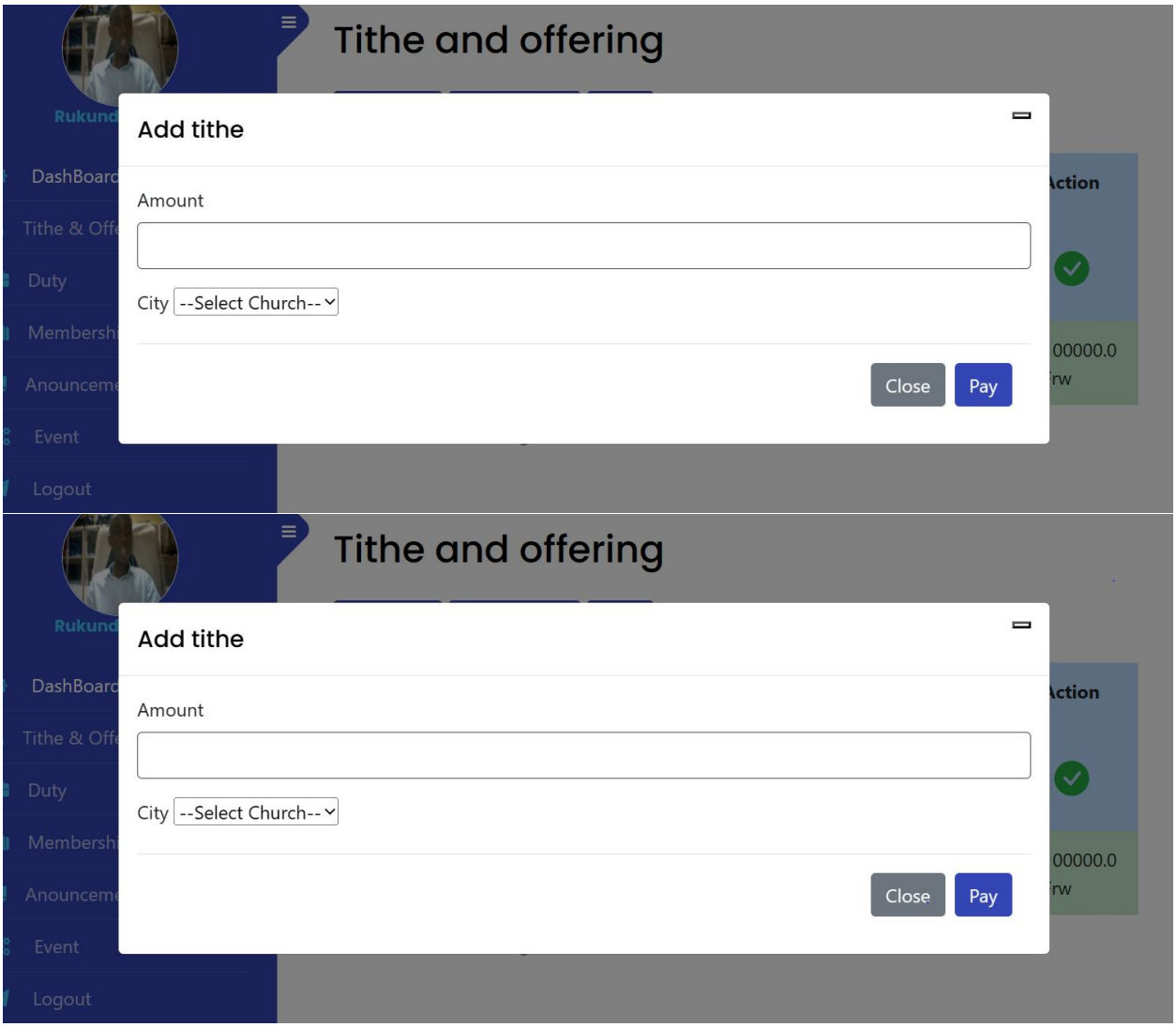
TRANSFER REQUEST



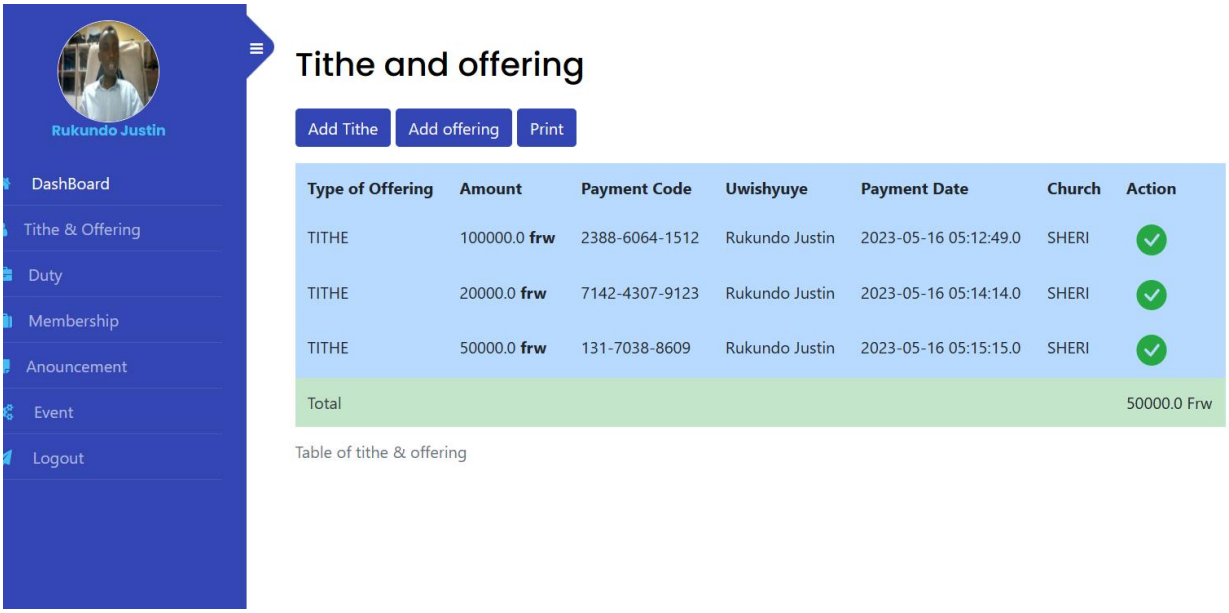
EVENT TO HAPPEN



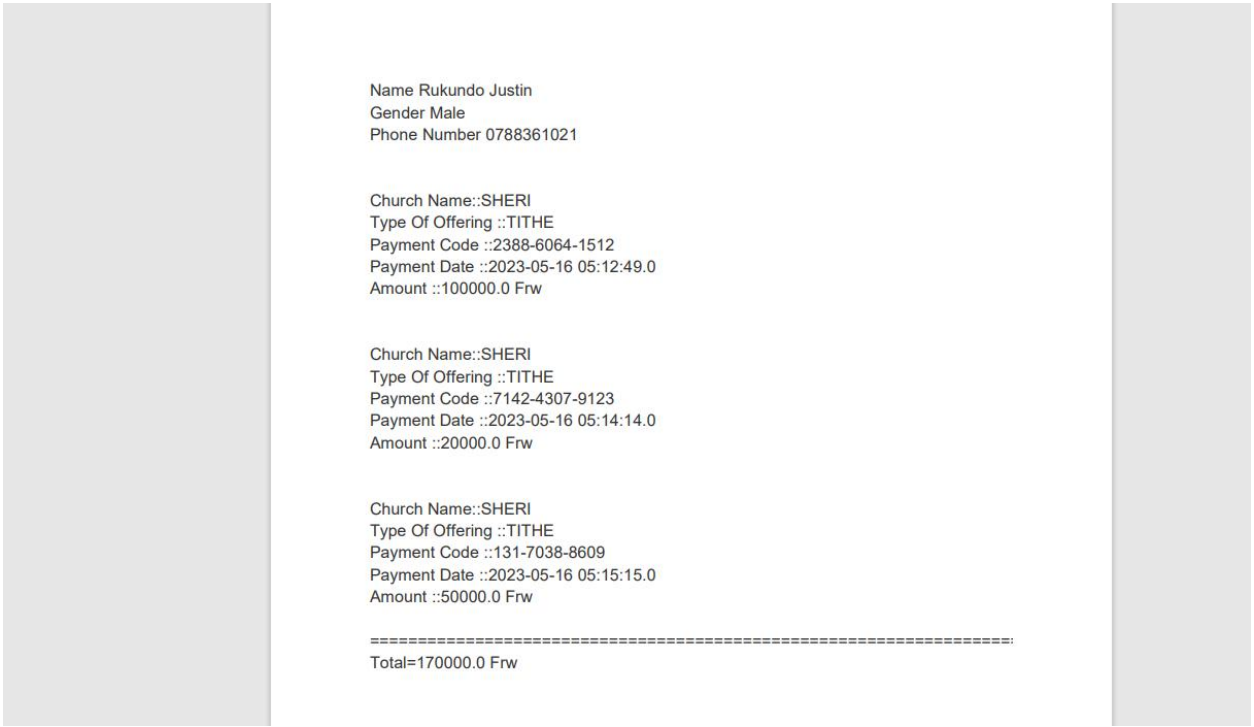
GIVING OFFEREING



DISPLAY ALL THE TITHE CHRISTIAN GAVE



AND THE CHRISTIAN CAN PRINT HIS/HER PDF WITH TOTAL AMOUNT GIVEN



Name Rukundo Justin
Gender Male
Phone Number 0788361021

Church Name::SHERI
Type Of Offering ::TITHE
Payment Code ::2388-6064-1512
Payment Date ::2023-05-16 05:12:49.0
Amount ::100000.0 Frw

Church Name::SHERI
Type Of Offering ::TITHE
Payment Code ::7142-4307-9123
Payment Date ::2023-05-16 05:14:14.0
Amount ::20000.0 Frw

Church Name::SHERI
Type Of Offering ::TITHE
Payment Code ::131-7038-8609
Payment Date ::2023-05-16 05:15:15.0
Amount ::50000.0 Frw

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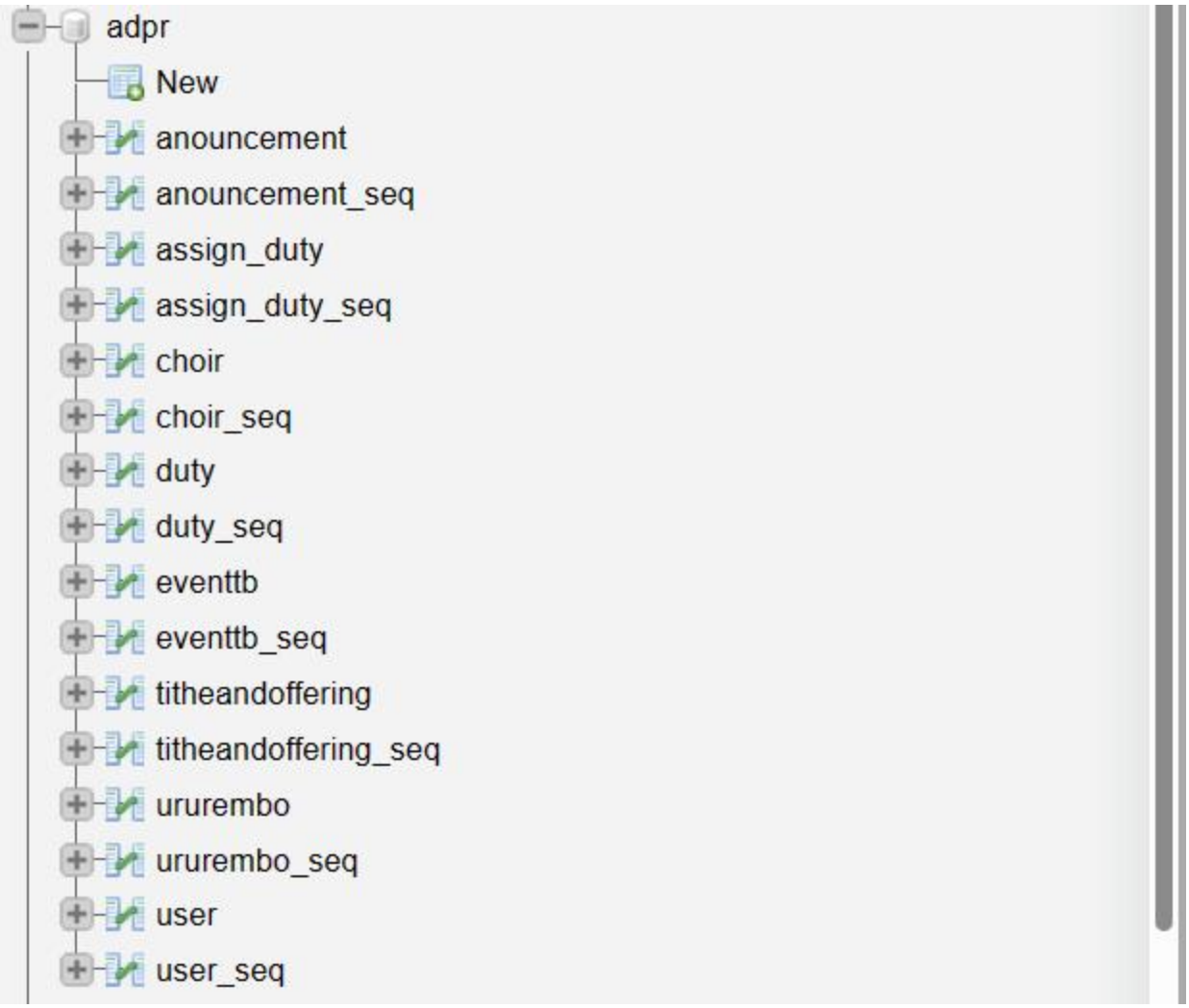
Total=170000.0 Frw

DATABASE TABLE IN MYSQL



THE TABLES RELATIONSHIP

User

Id	Email	Gender	Location	Name	password	Role	PhoneNumber	churchId	DutyId
Int	string	String	String	String	String	String	String	Fk(Ururembo)	Fk(Duty)

Choir

Id	presidentName	TelephoneNumber	FromDate	ChoirName	Church	RecordingDate
					Fk(Ururembo)	

Event

id	name	fromdate	To_date	type	place

Ururembo

Id	Name	Type	fk (Ururembo)

Announcement

Id	Description	Head	To_day

Tithe

Id	Type	Amount		

Duty

id	name	placeOfDuty	Category