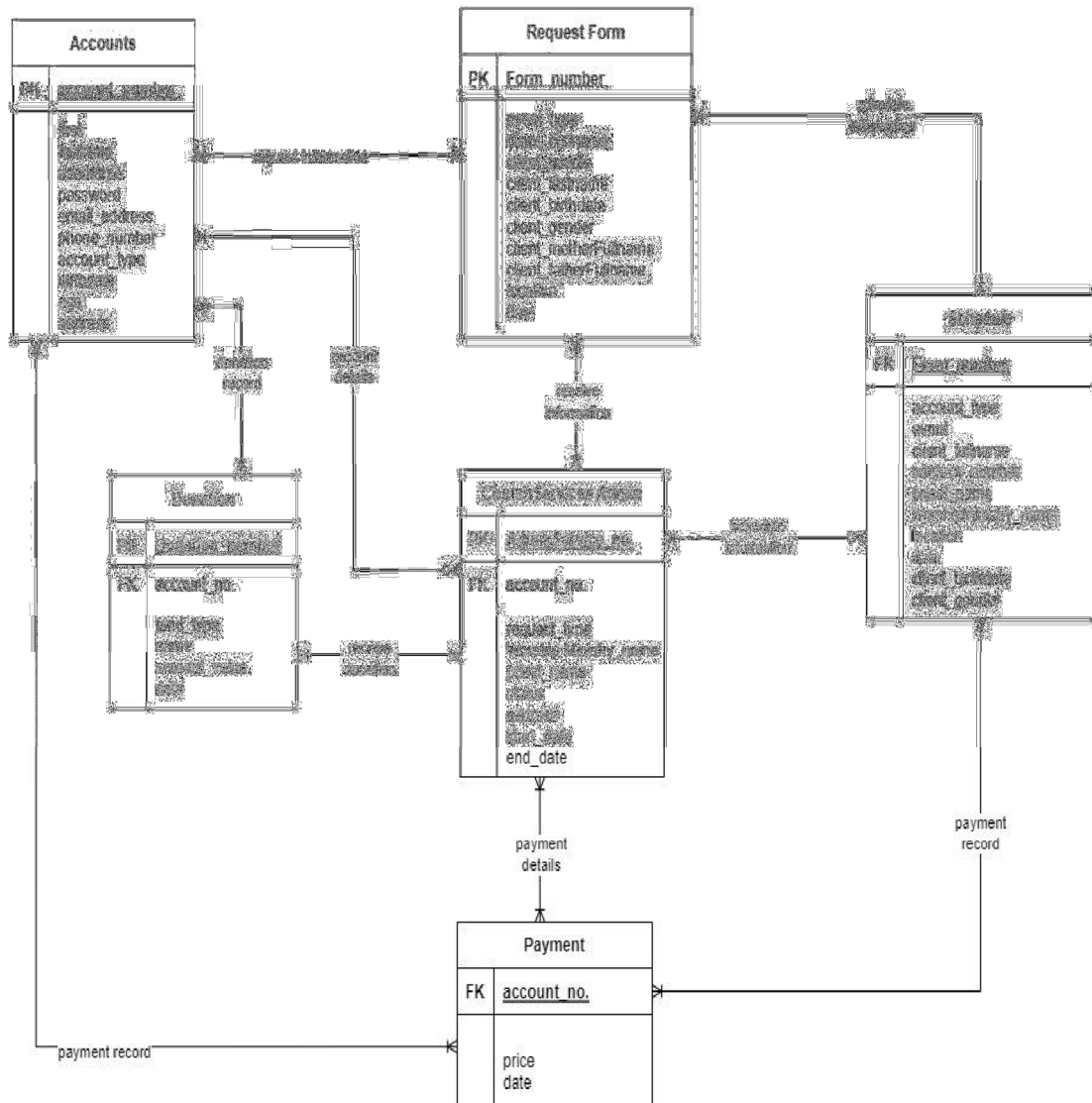


Entity Relationship Diagram



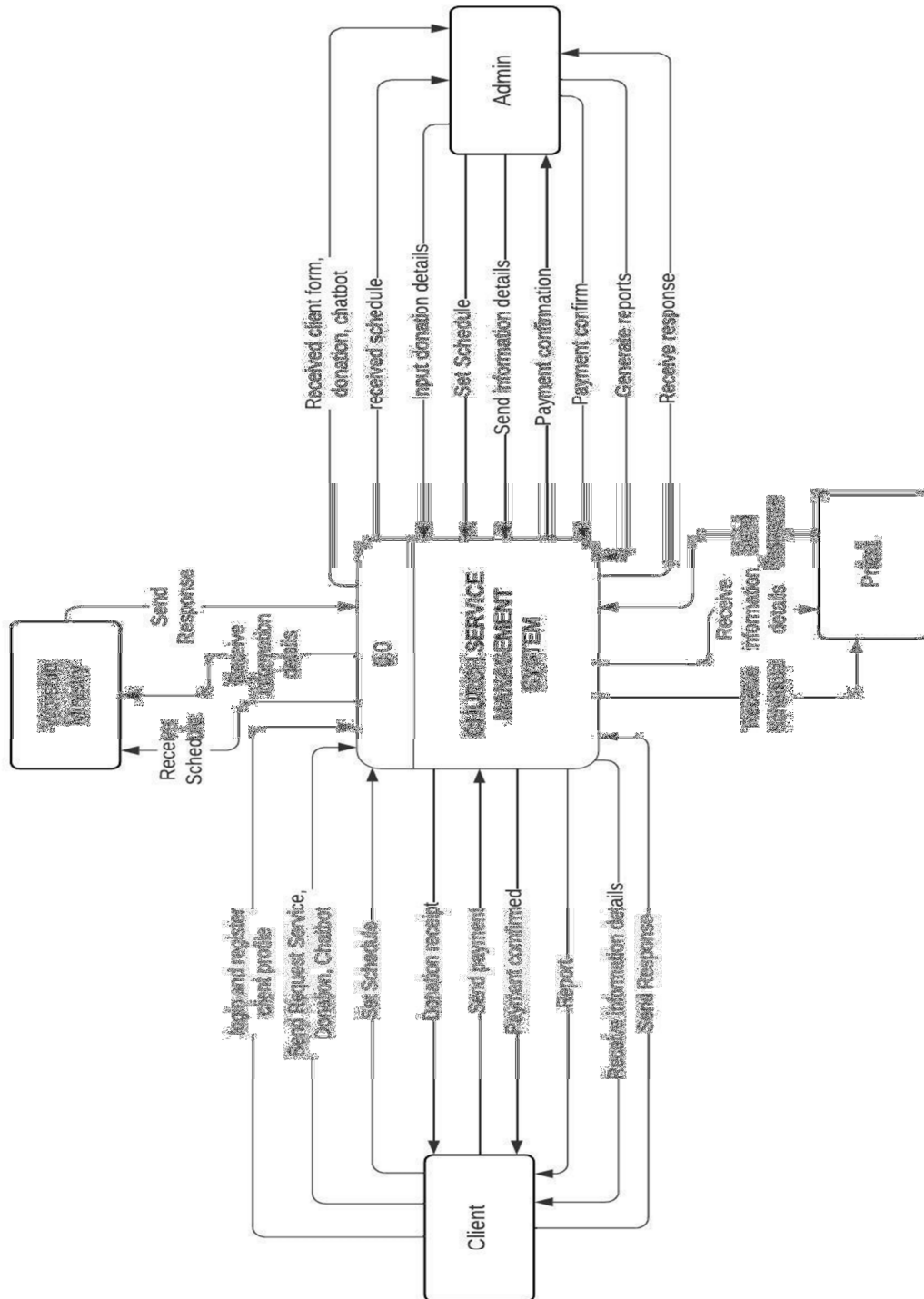
Business Scenario

- The **Accounts** entity allows users to create an account and log in to access various web application features. To create an account, you need to input the following first, lastname, username, password, email_address, phone_number, account_type (client, priest, admin and worship ministry), birthdate, age, and address. For the account_no. It will automatically generate when one is done creating an account.
- The **Funds** has fund_no, account_no, fund_type, name, amount_value and date. For the donation from people.
- The **ChurchService** has service_no., request_type, priest_name, status, address, start_date, and end_date. For requesting documents or events.
- The **Events** is one of the request_type in ChurchService that indicates the following event: Wedding, Mass, House Blessing, Baptism, Confirmation, and Funeral Mass. The client needs these to book an event_type, client_firstname, client_middle, client_lastname, client_birthdate, client_gender, client_motherFullname, client_fatherFullname, location, date, event_no. for the primary key and service_no. For the foreign key.
- The **Schedule** entity manages the schedules of the church, client, and secretary. The Schedule entity has account_type, event_type,

client_fullname, priest_name, location, contact_number, date, and service_no. for the primary key.

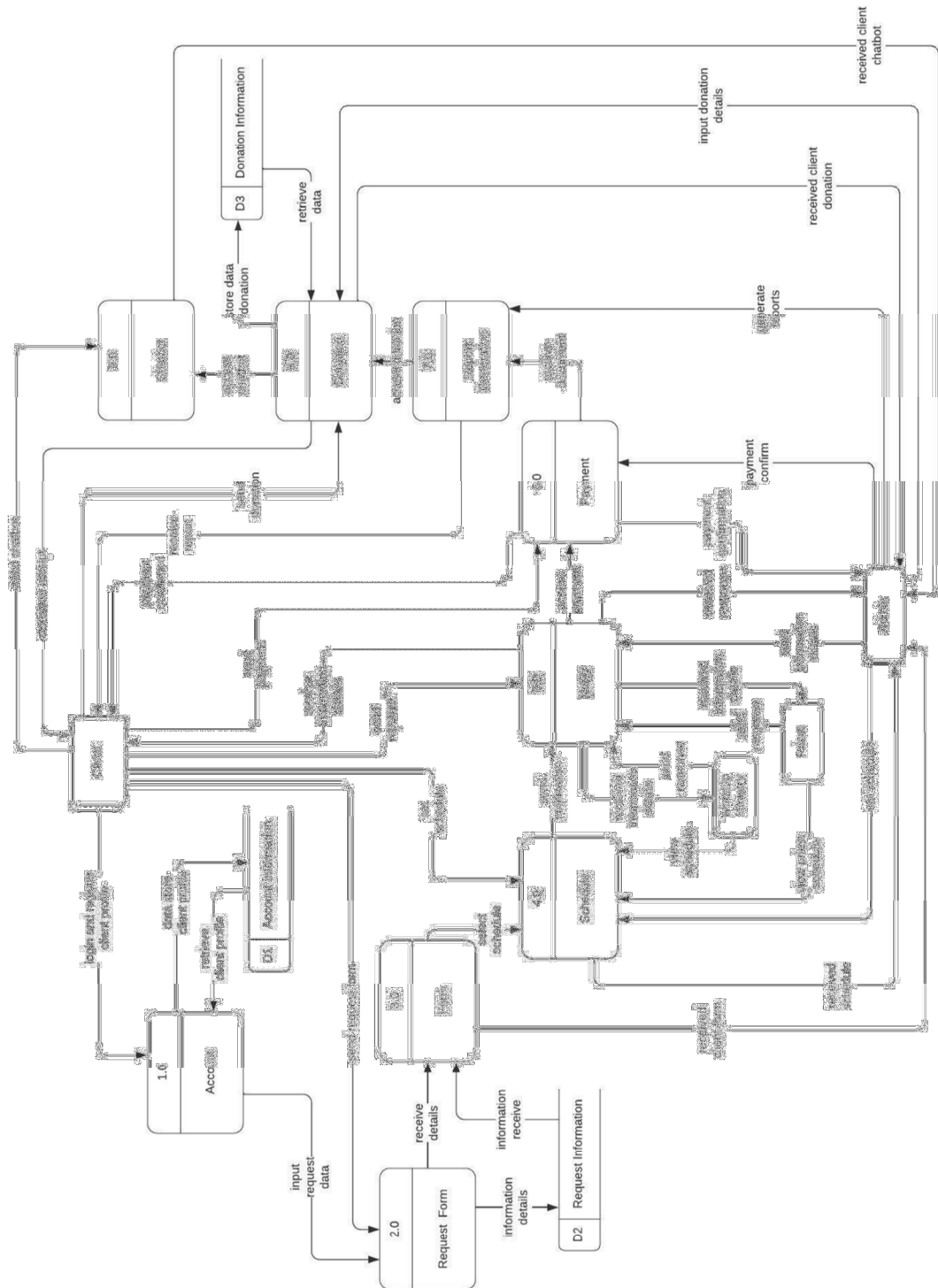
- The **Documents** entity is another request_type of ChurchService. It manages two documents, namely the baptismal and marriage certificates. The Documents entity has document_type, client_firstname, client_middle, client_lastname, client_birthdate, client_gender, client_motherFullname, client_fatherFullname, date, service_no. as the foreign key, and document_no. for the primary key.
- The **Payment** entity manages the financial transactions to document's requests by the client. The Payment entity has document_type, price, date, and document_no. as a primary key. The Accounts entity allows users to create and log in to access various web application features. Client, Priest, Worship Ministry, and Admin are the three types of users in the Accounts entity. The Fund entity manage all different kind of donation from people. The ChurchService entity manages service requests and statuses, while the Events entity specifies the available booking events. The Schedule entity manages schedules for clients, priests, worship ministry, and secretaries. Documents contain the client's baptismal and marriage certificates, while the Payment entity manages financial transactions for those requests. All entities have primary and foreign keys that link them together.

Context Level Diagram



A church service management system context diagram illustrates the interactions between the system and its external entities. The system's primary purpose is to manage the request services, donation, and chatbot by clients, and the entities involved are the client, admin, priest, and worship ministry. The diagram shows how the client can register and login, file a service request, donate, schedule, make a payment, and use a chatbot. The admin reviews the client's request and the set schedule and sets the schedule for the priest and worship ministry of the service. Then notify the client, priest, and worship ministry for further and additional information about the event. The priest and worship ministry can view their schedule and the service's details on the system. Furthermore, a priest, client, and worship ministry can also send a response.

Top Level Diagram



The DFD illustrates a system's data and process flow that responds to the client's service requests. The process starts with the client's registration and login. Once registered and logged in, clients can submit requests for the service they want and access the schedule to set when and where it will happen. Admin will review the request form and notify the client regarding the request they made. After reviewing the request form, the admin will set the schedule for the priest and worship ministry, then inform the priest, worship ministry, and client for additional instructions. Also included are payments and donations. This will proceed to generate report once the payment has been made. This system also has a chatbot for our clients.