

HALL MANAGEMENT SYSTEM

ERD Diagram and Trriger and Table and Function

SUBMITTED BY

1005061

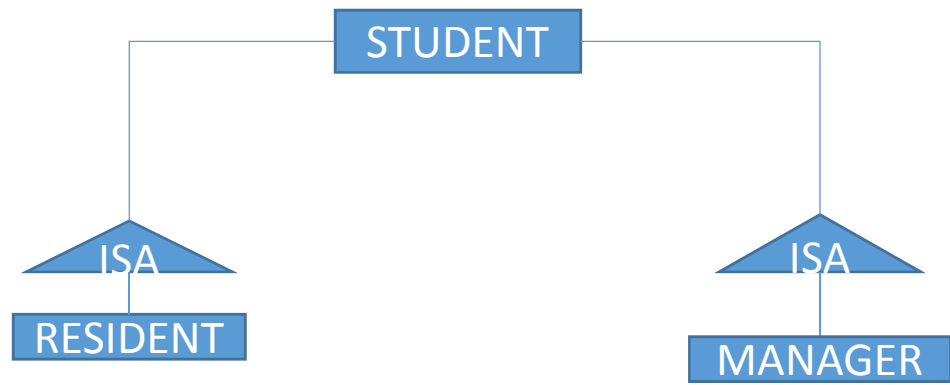
1005075

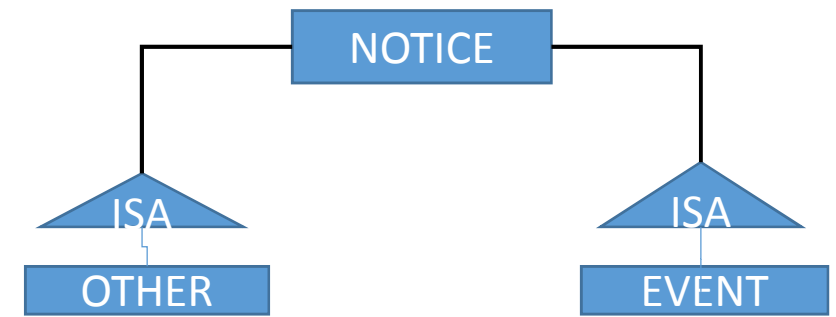
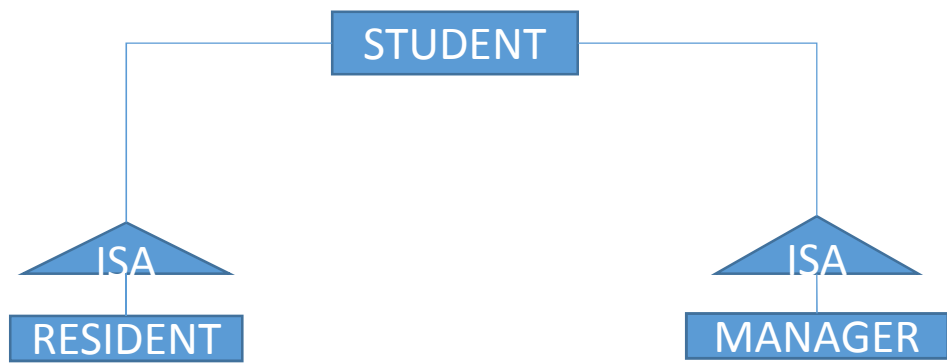
1005081

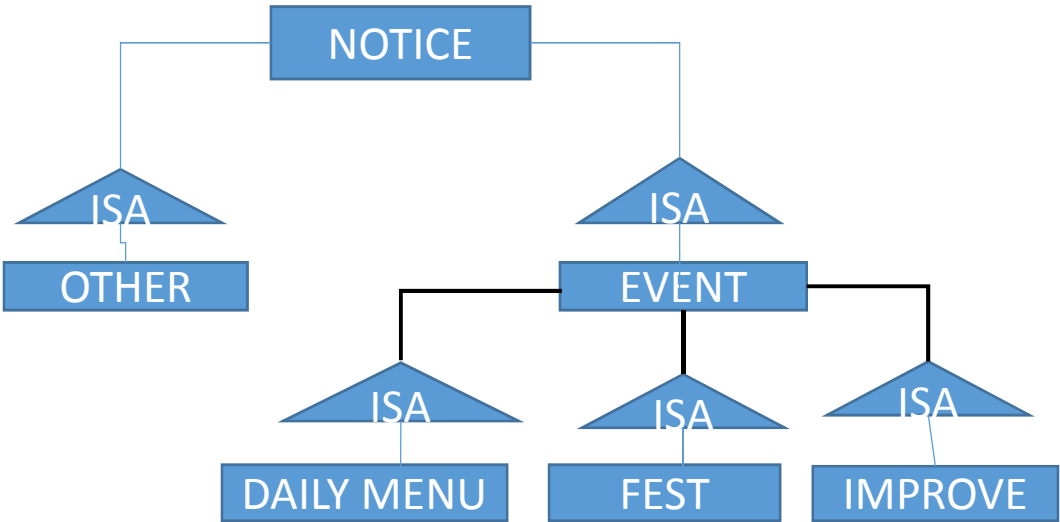
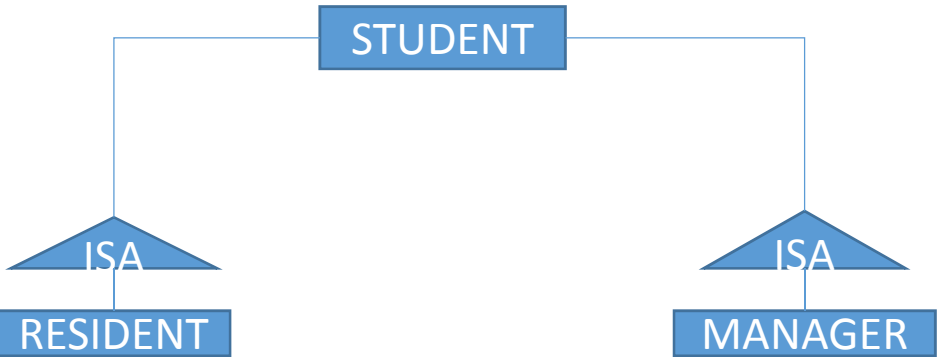
1005089

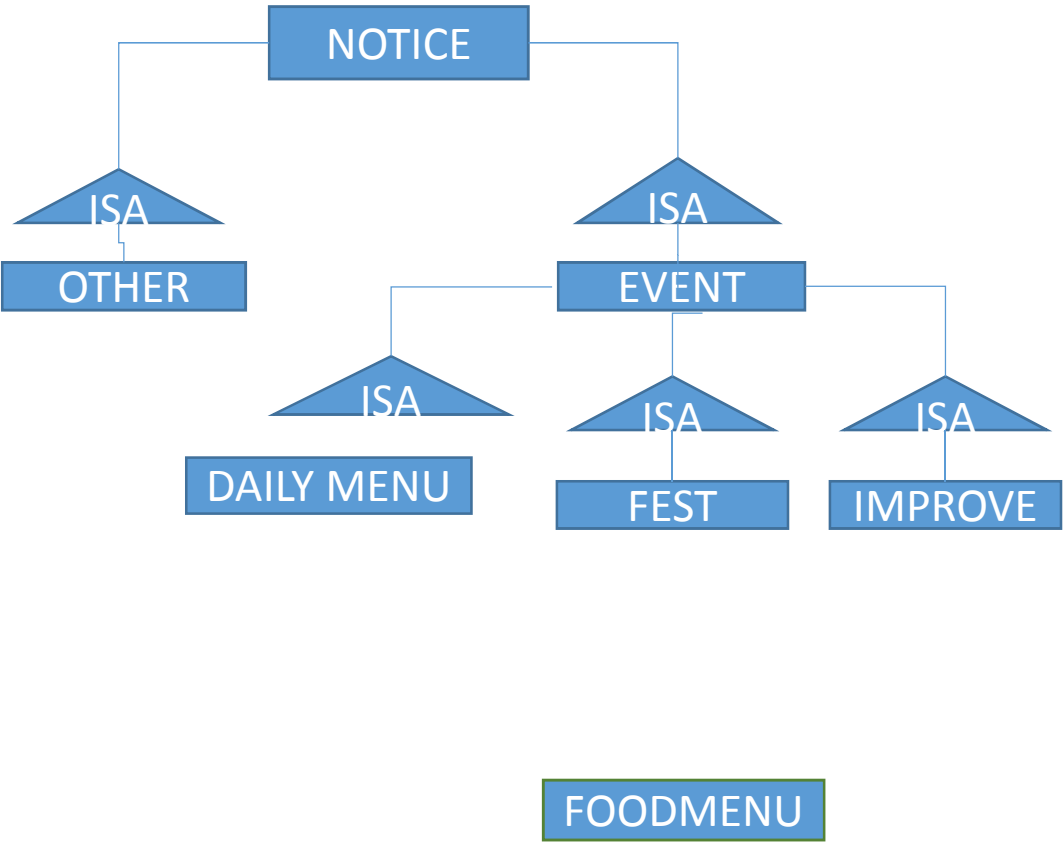
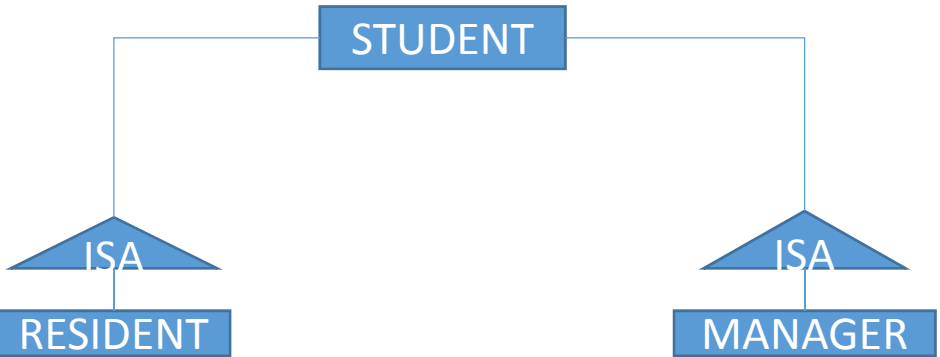
1005090

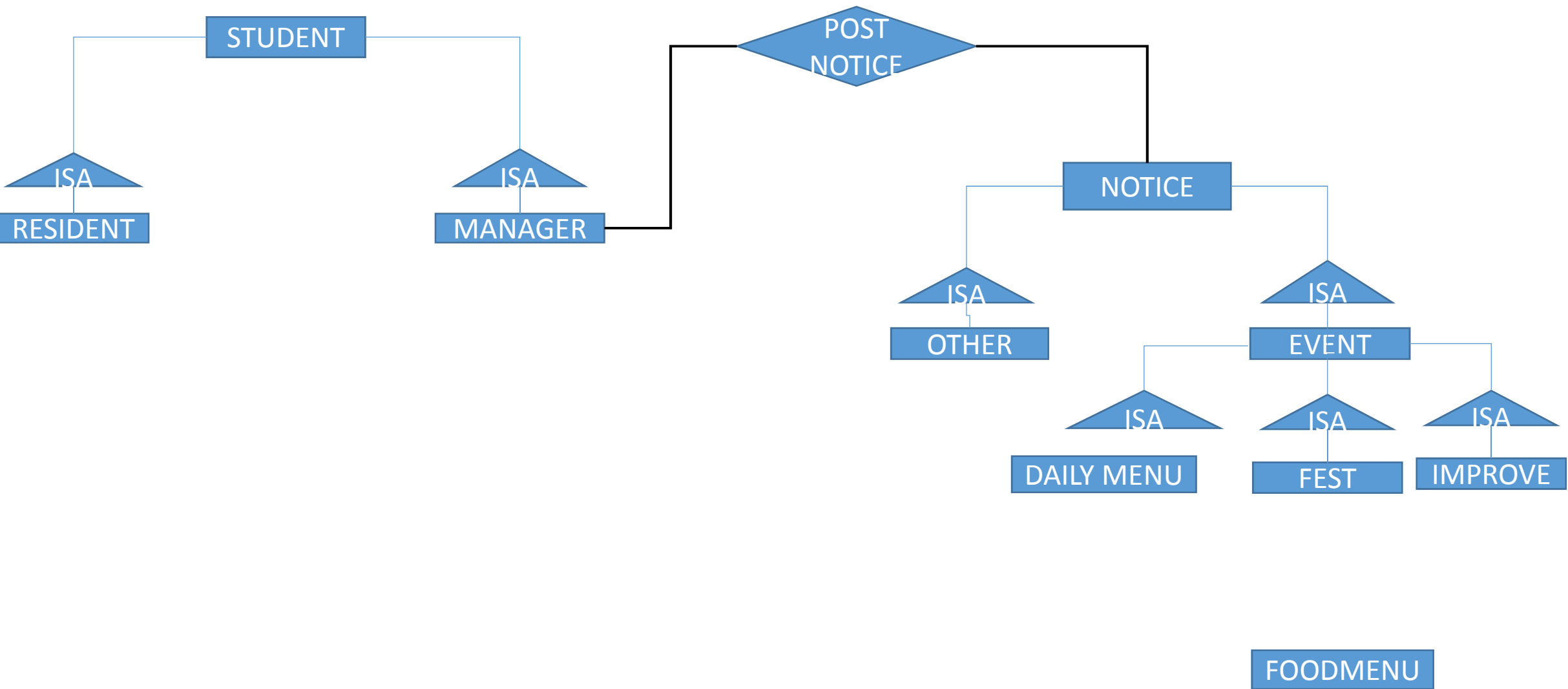
ERD

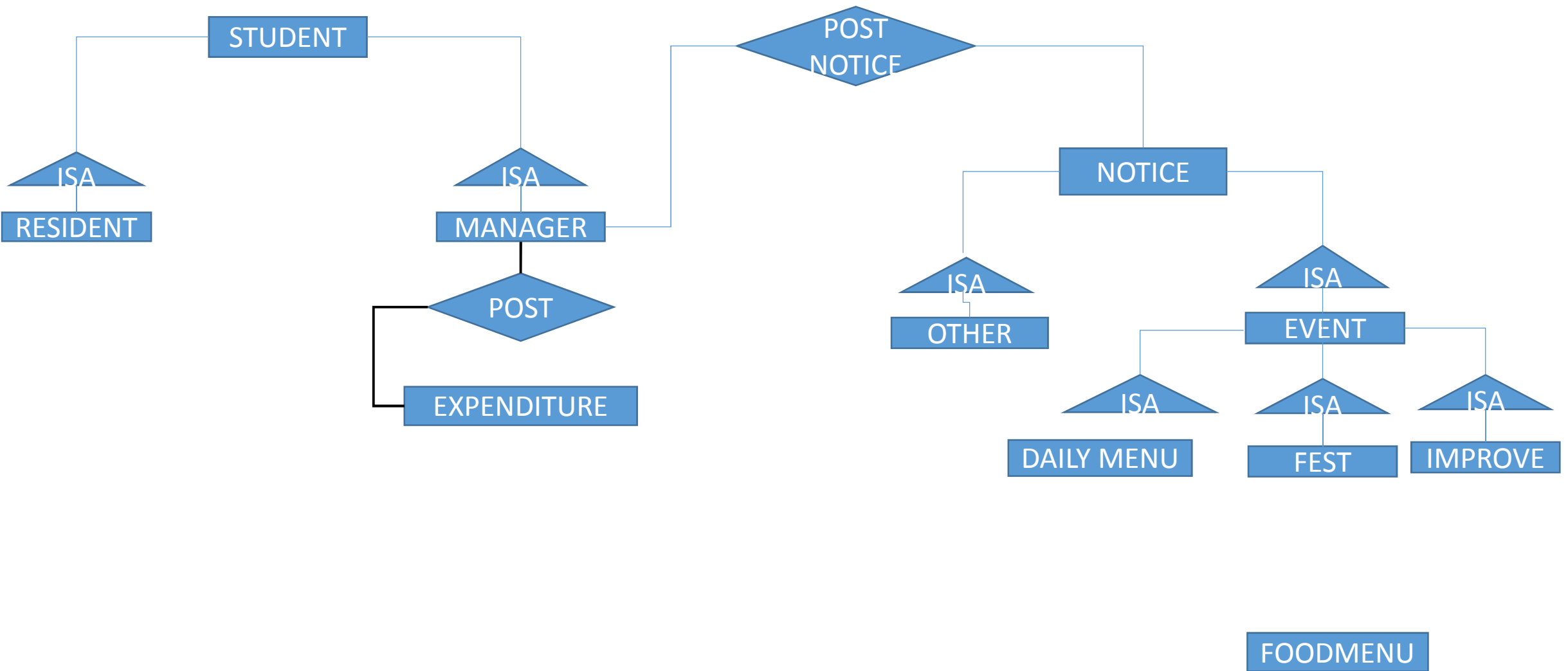


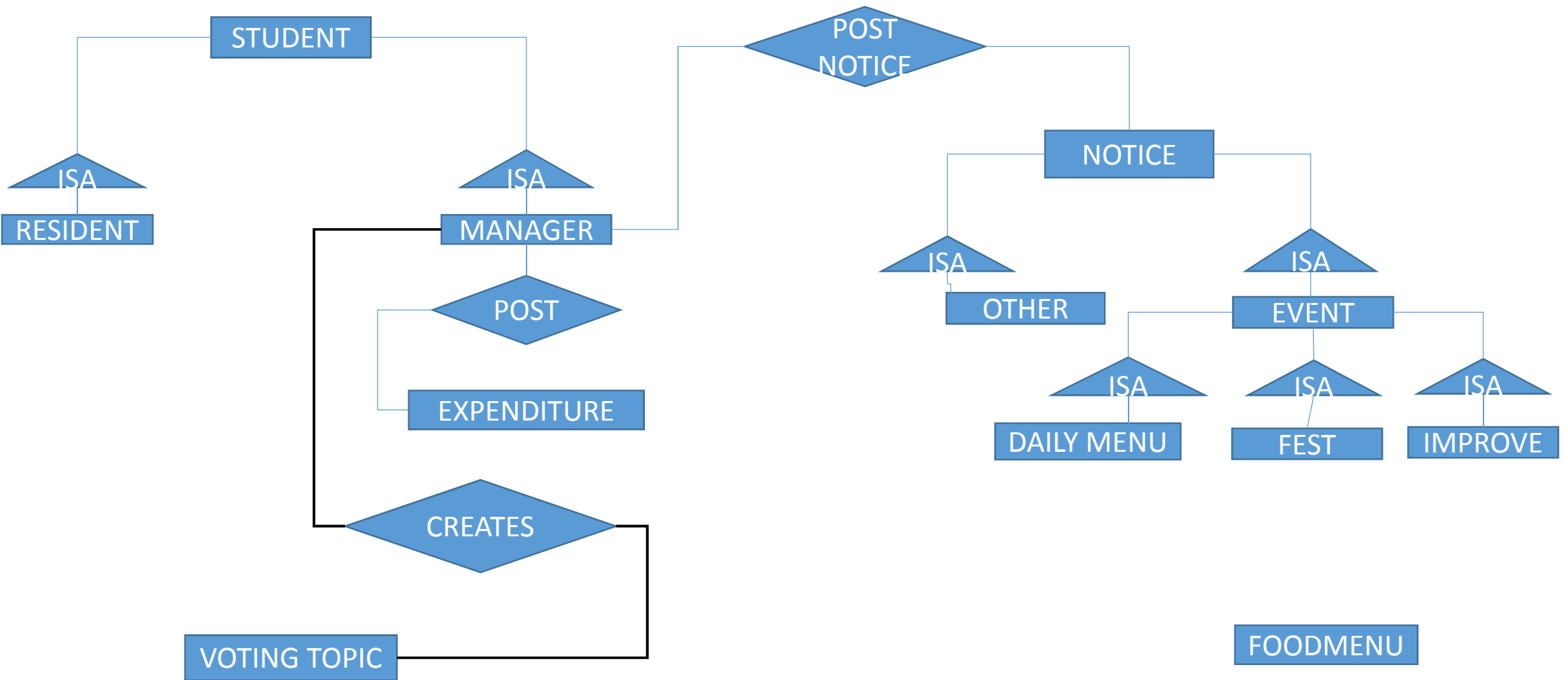


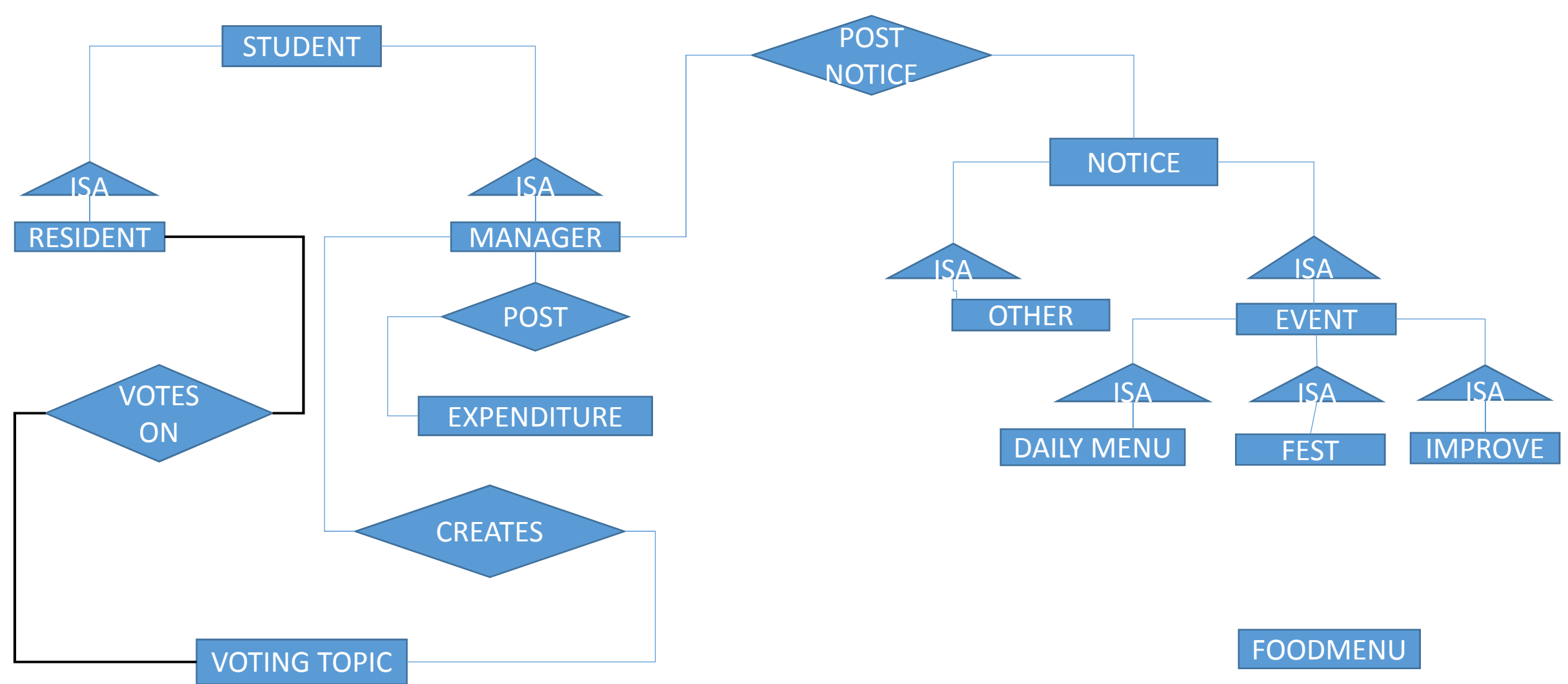


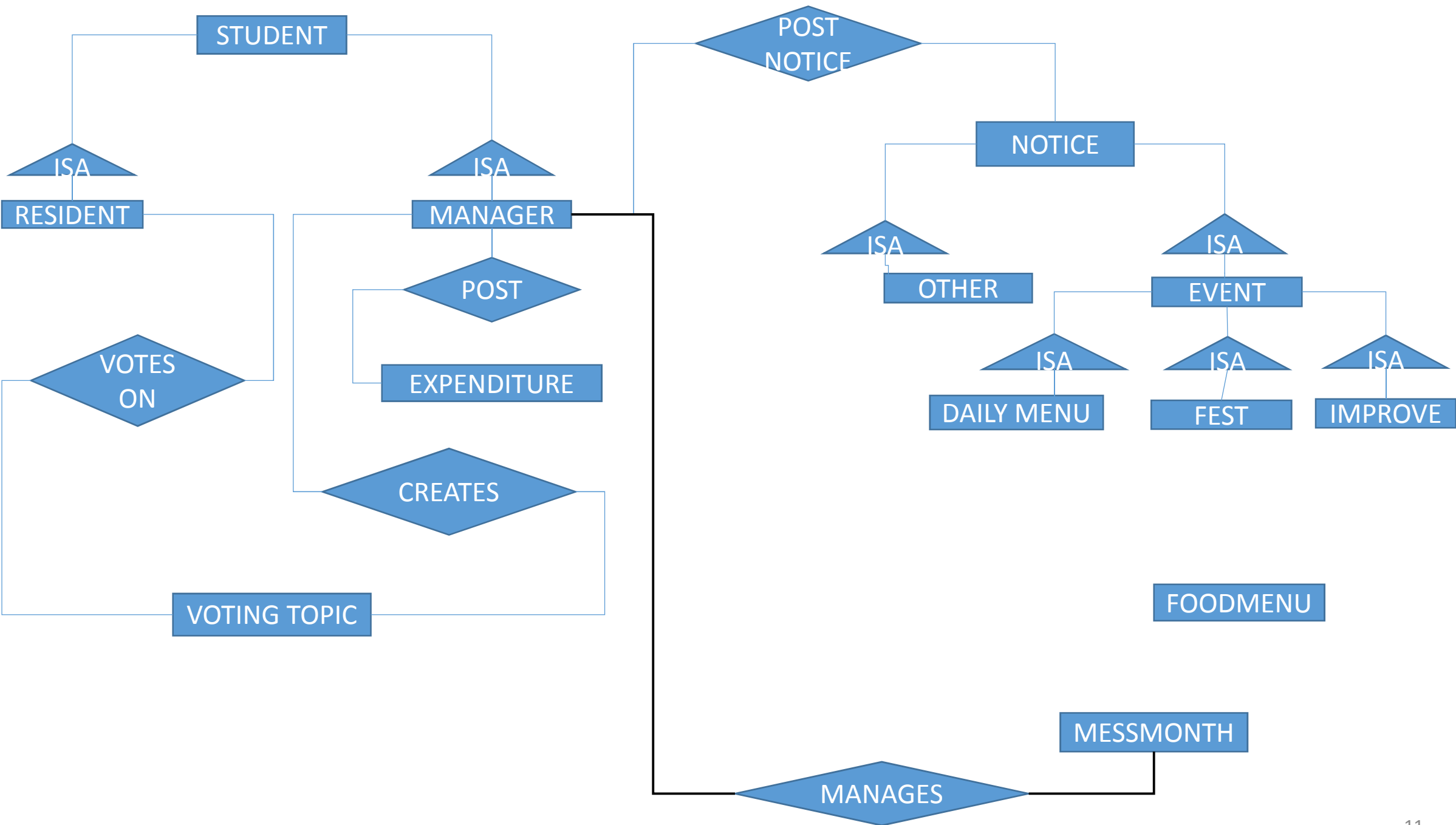


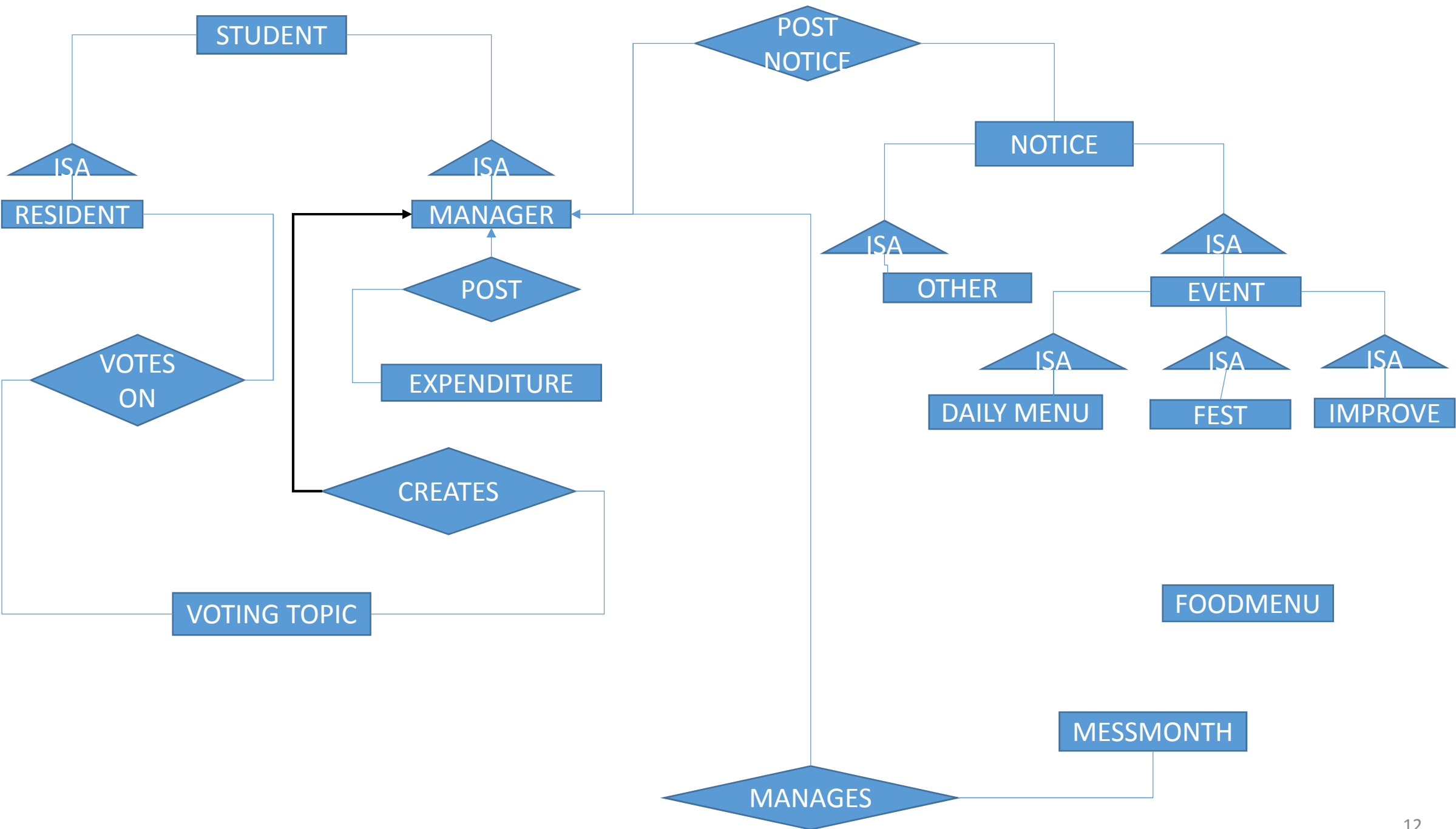


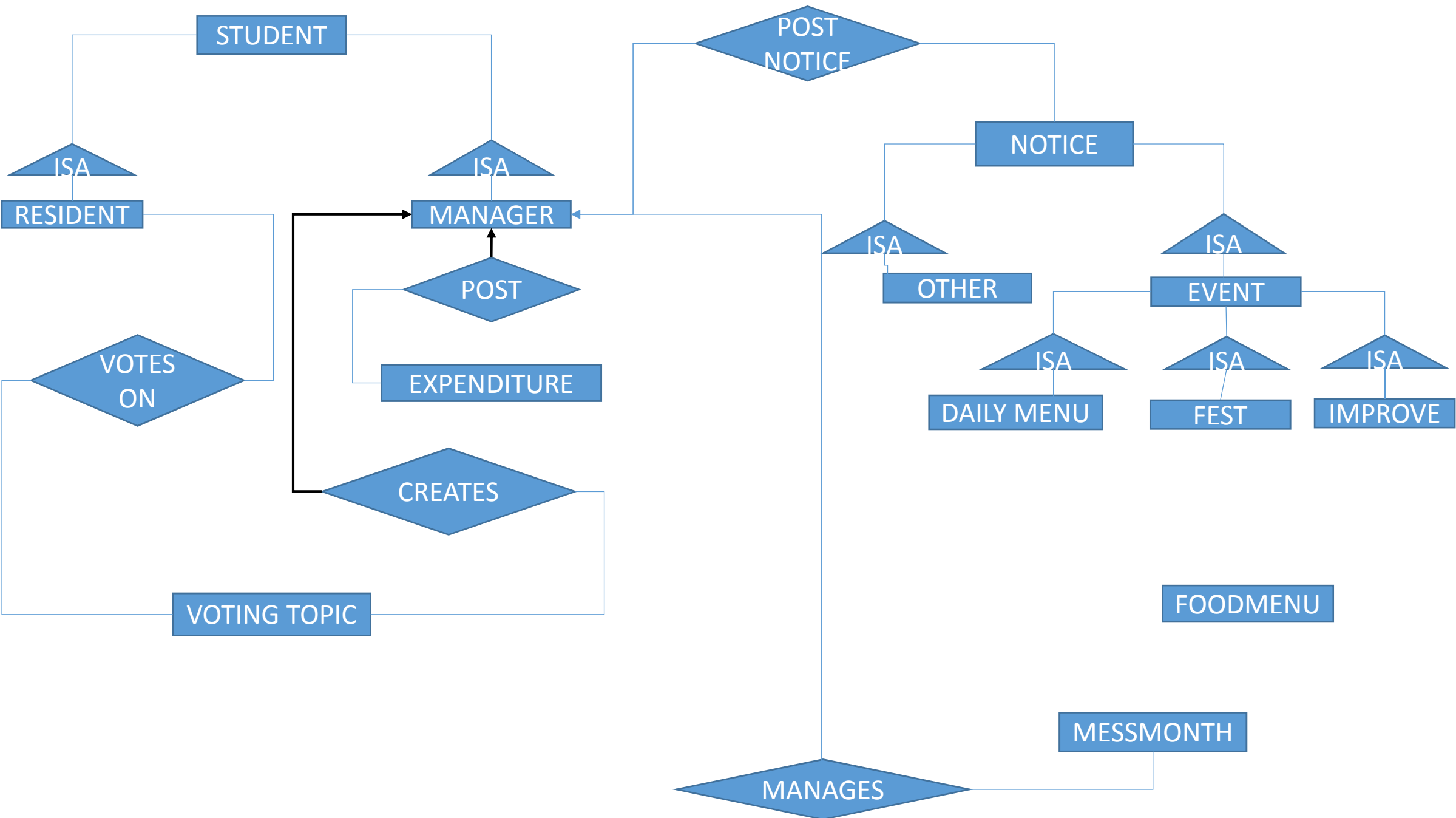


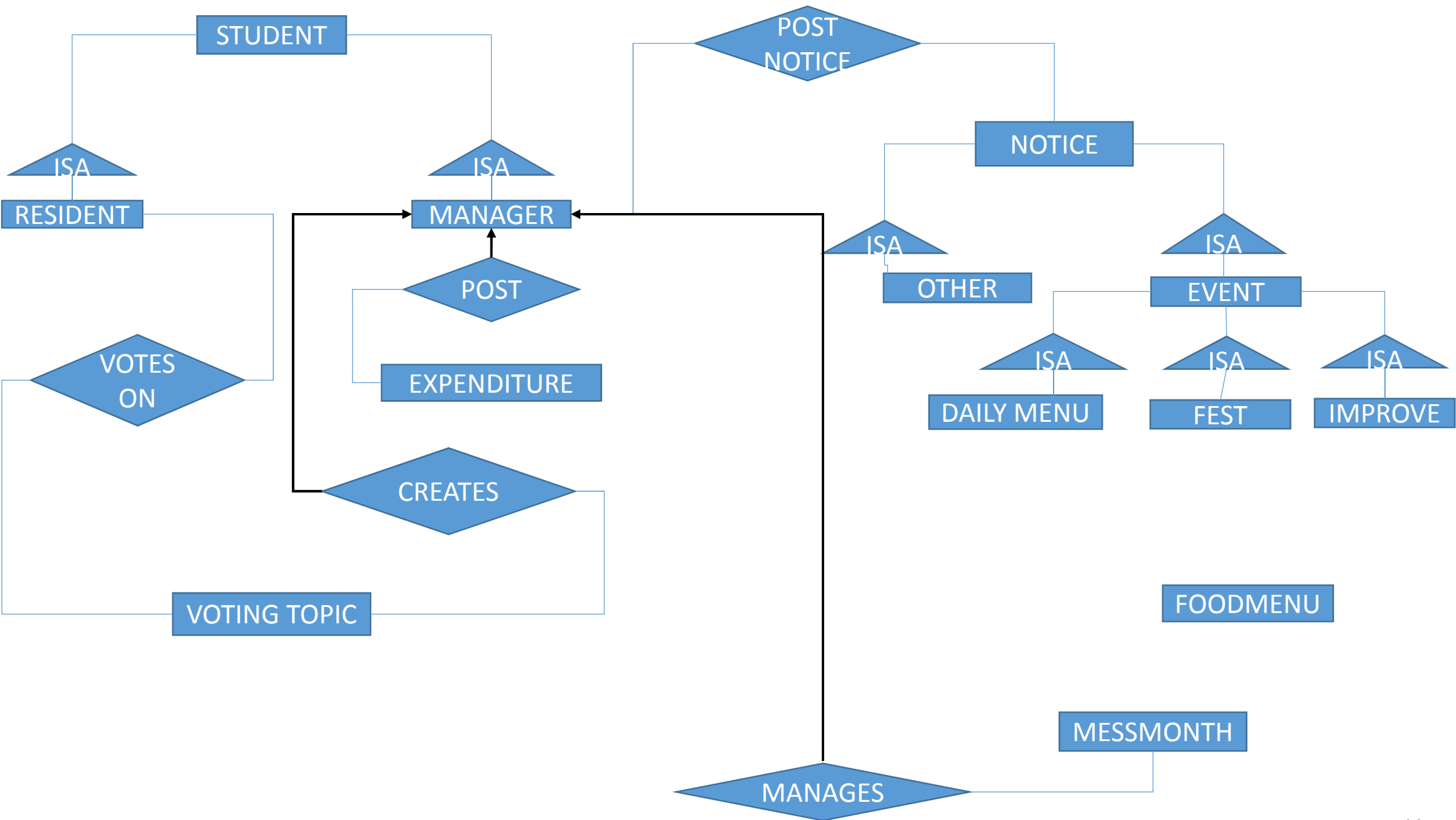


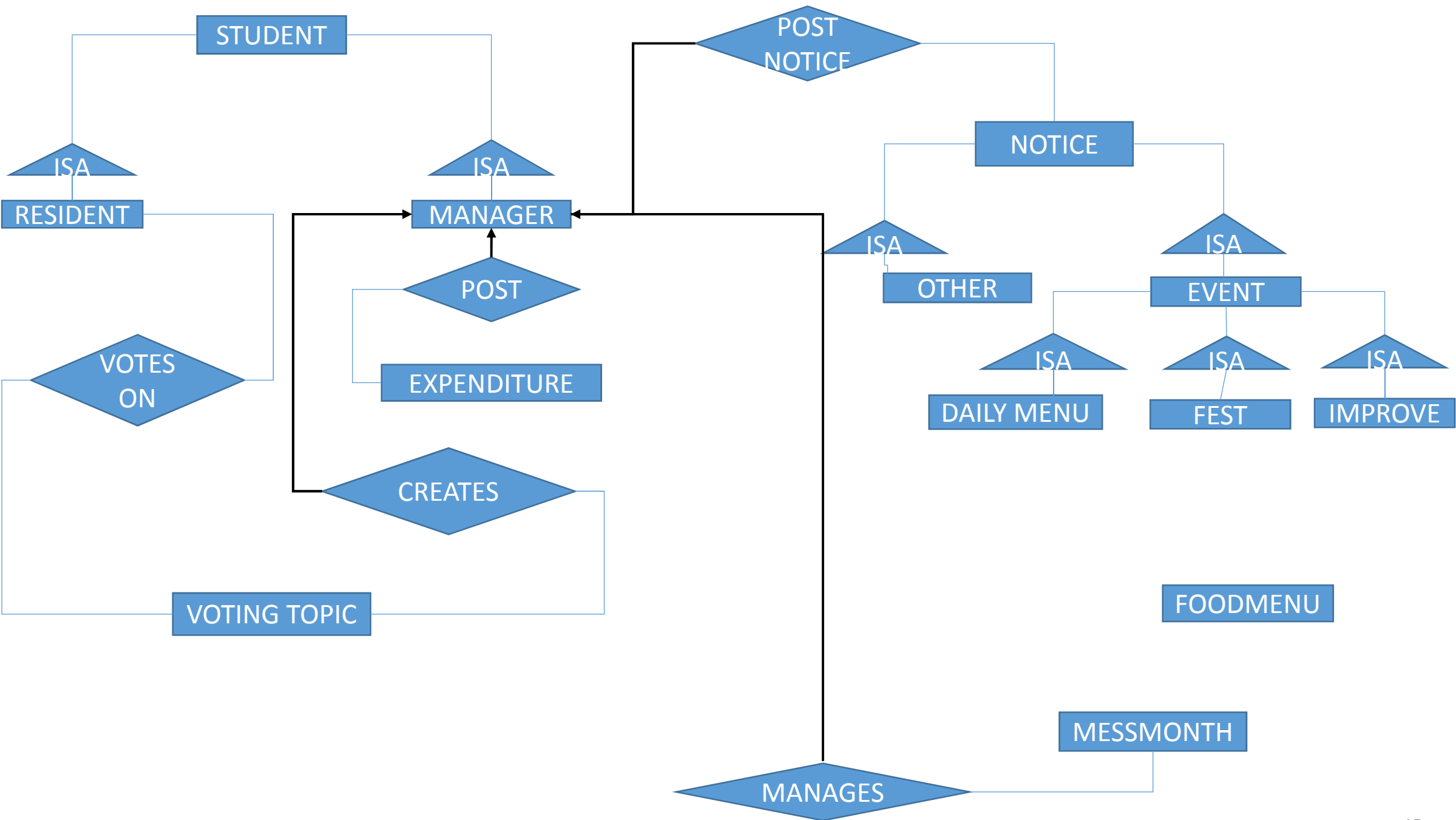


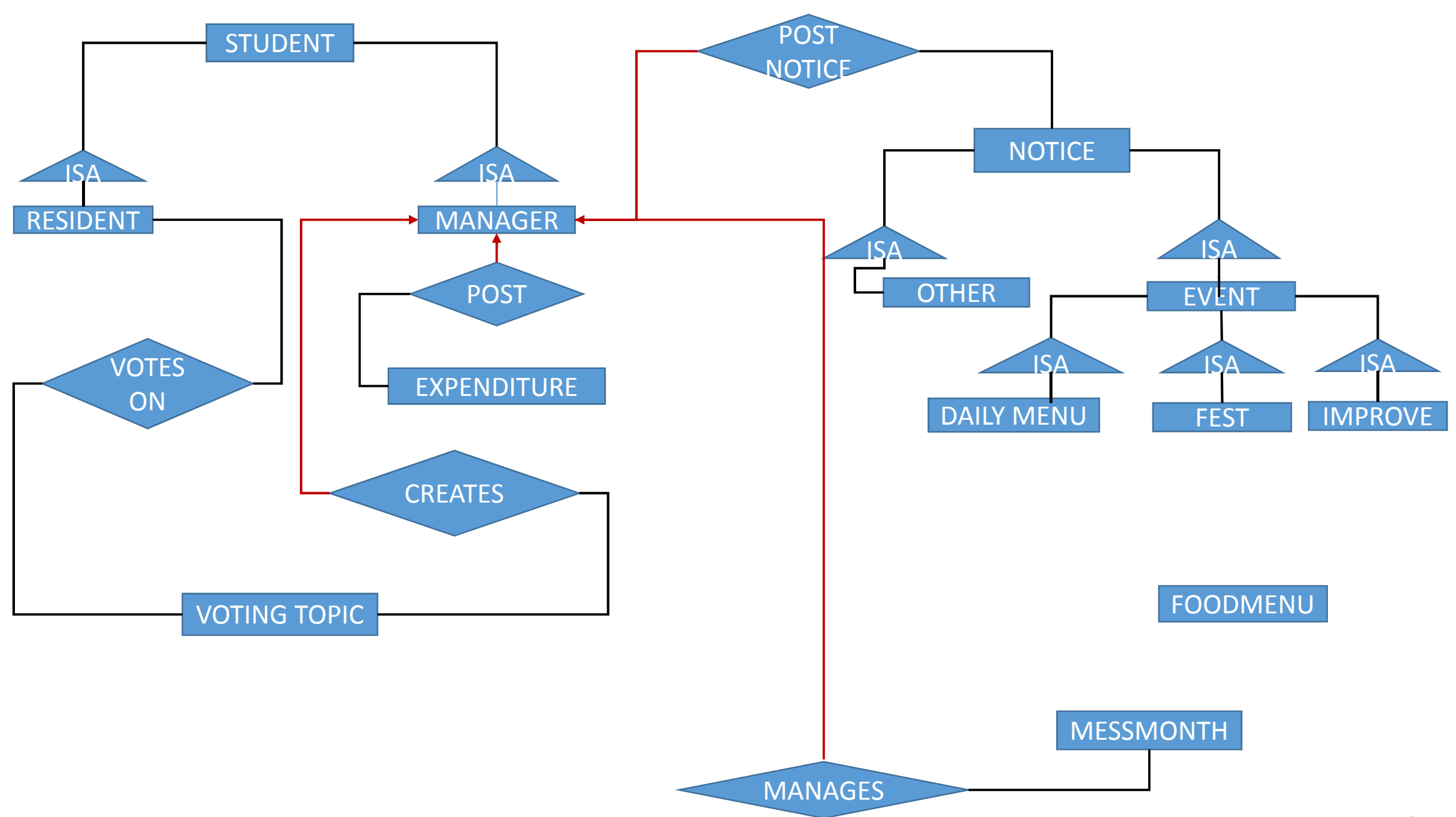


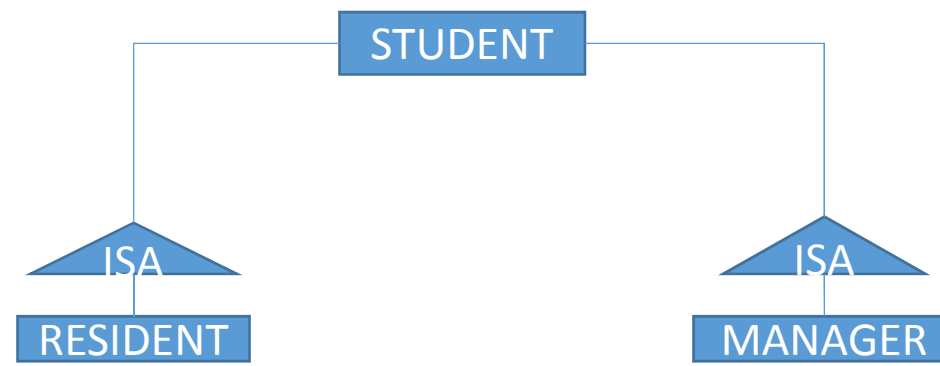


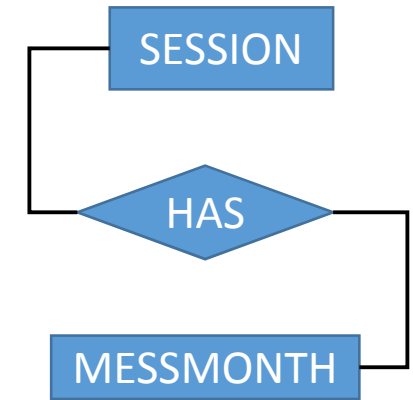
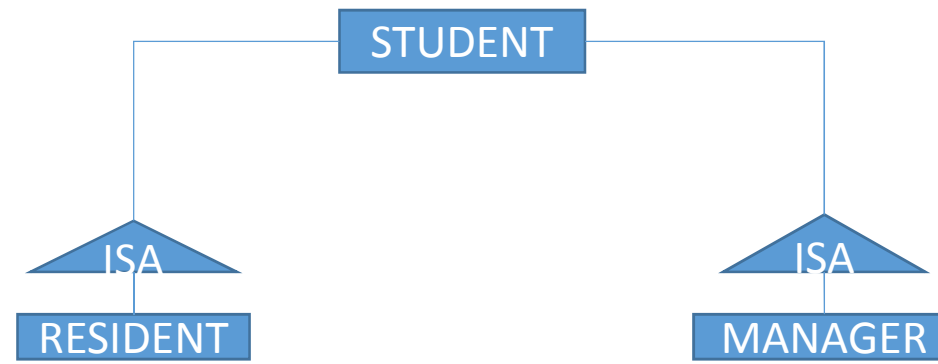


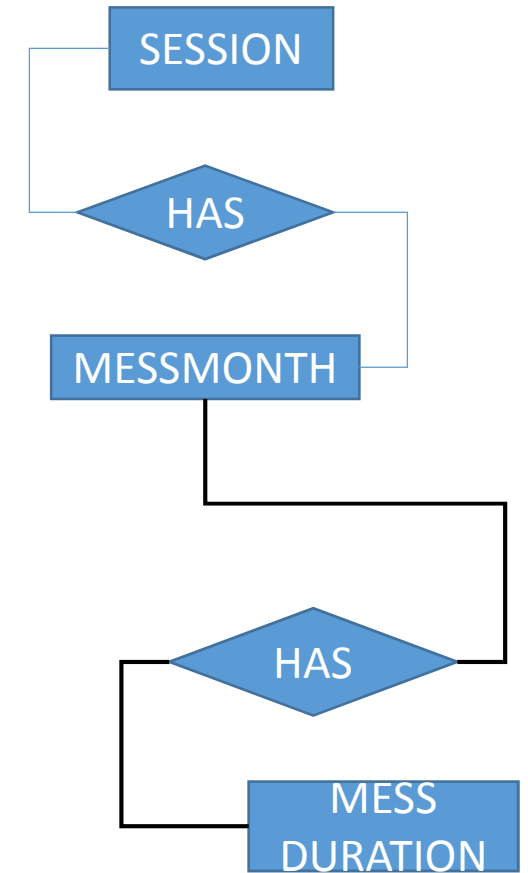
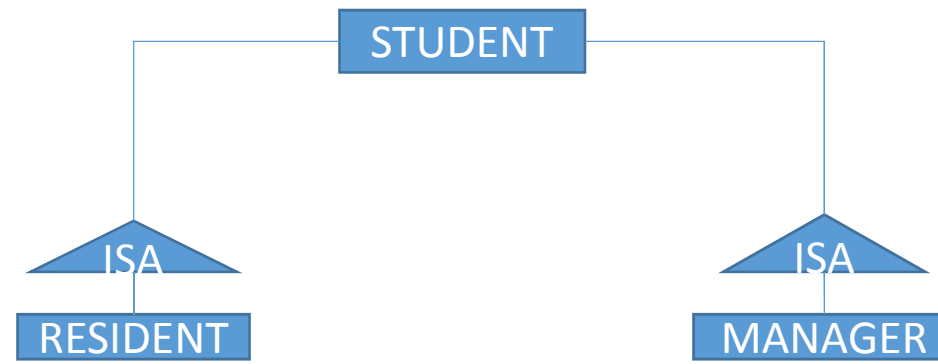


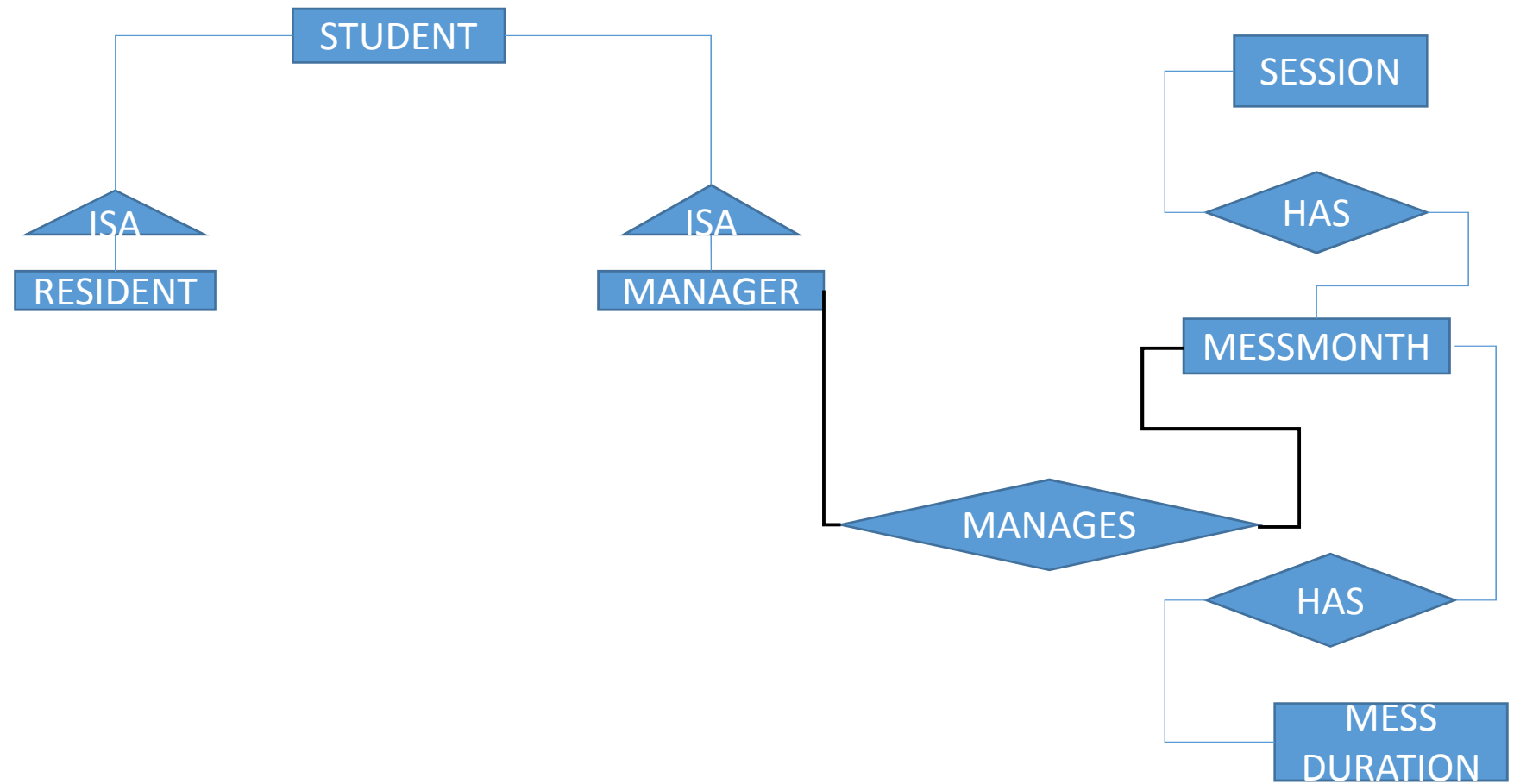


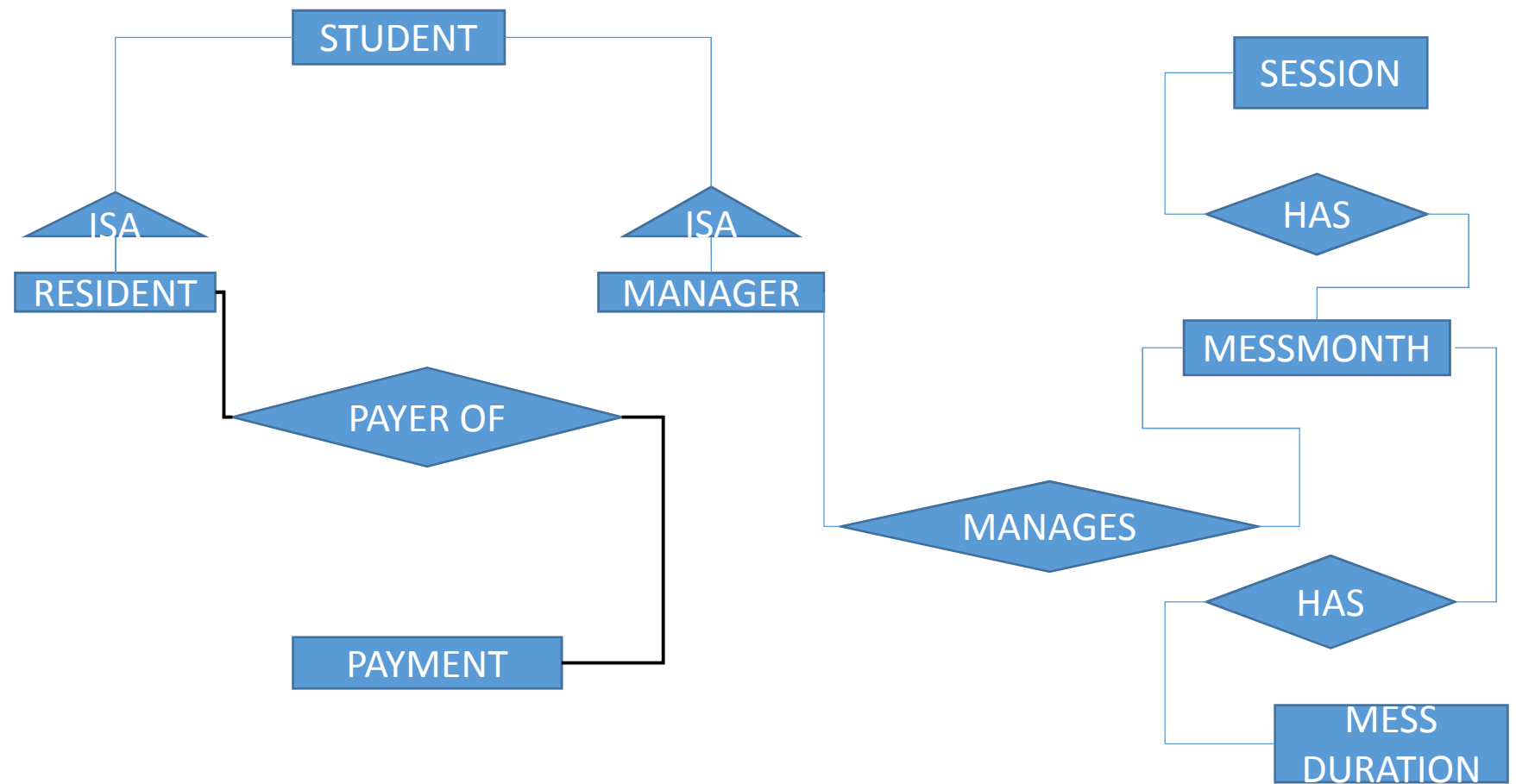


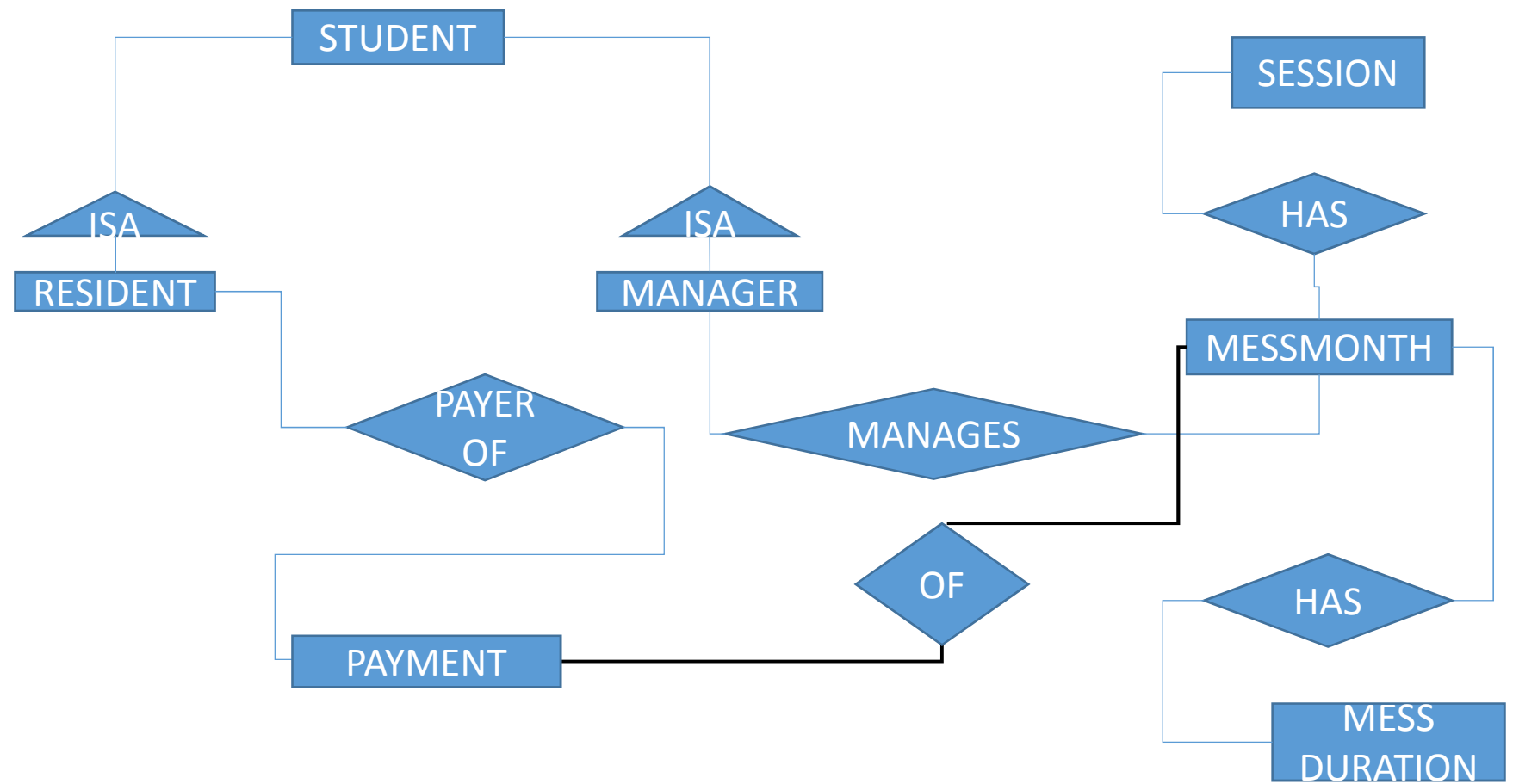


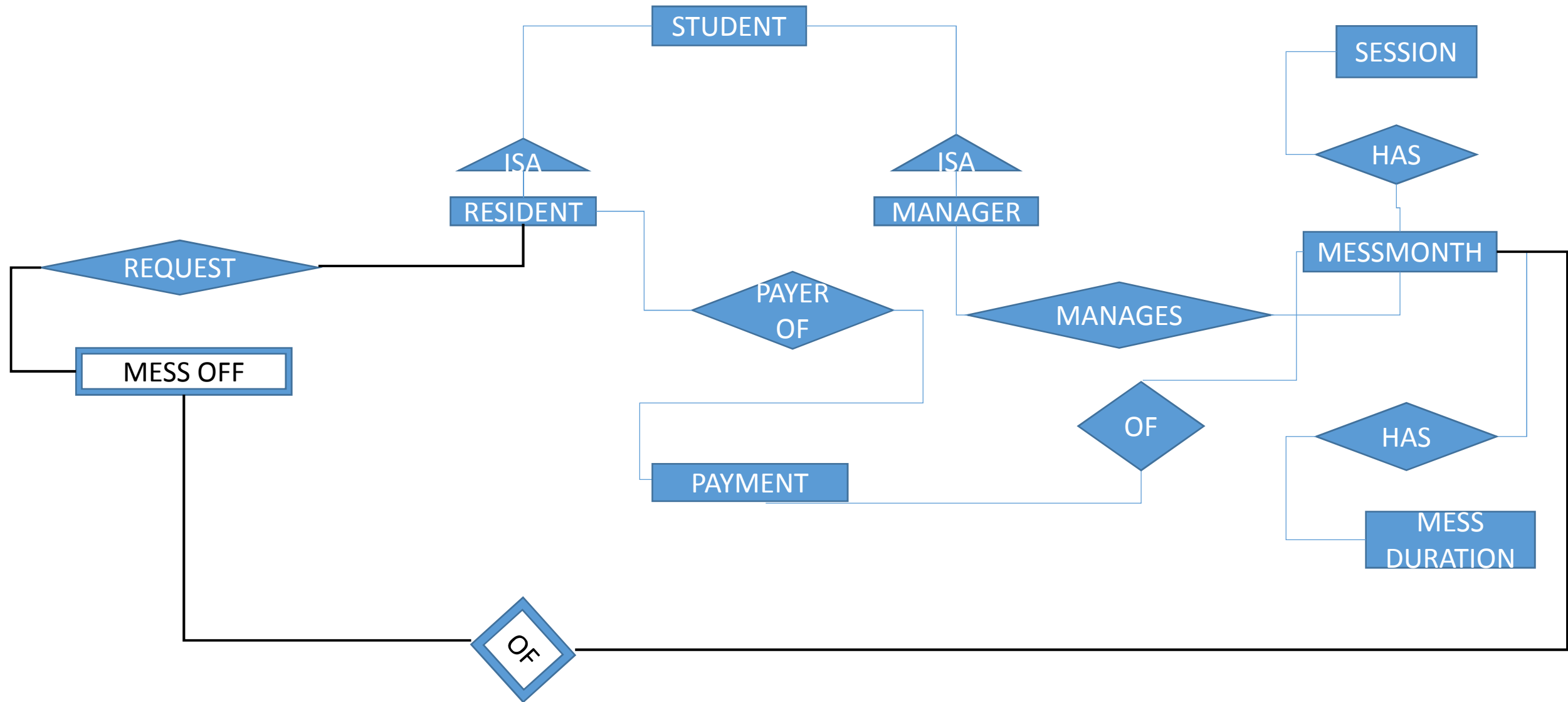


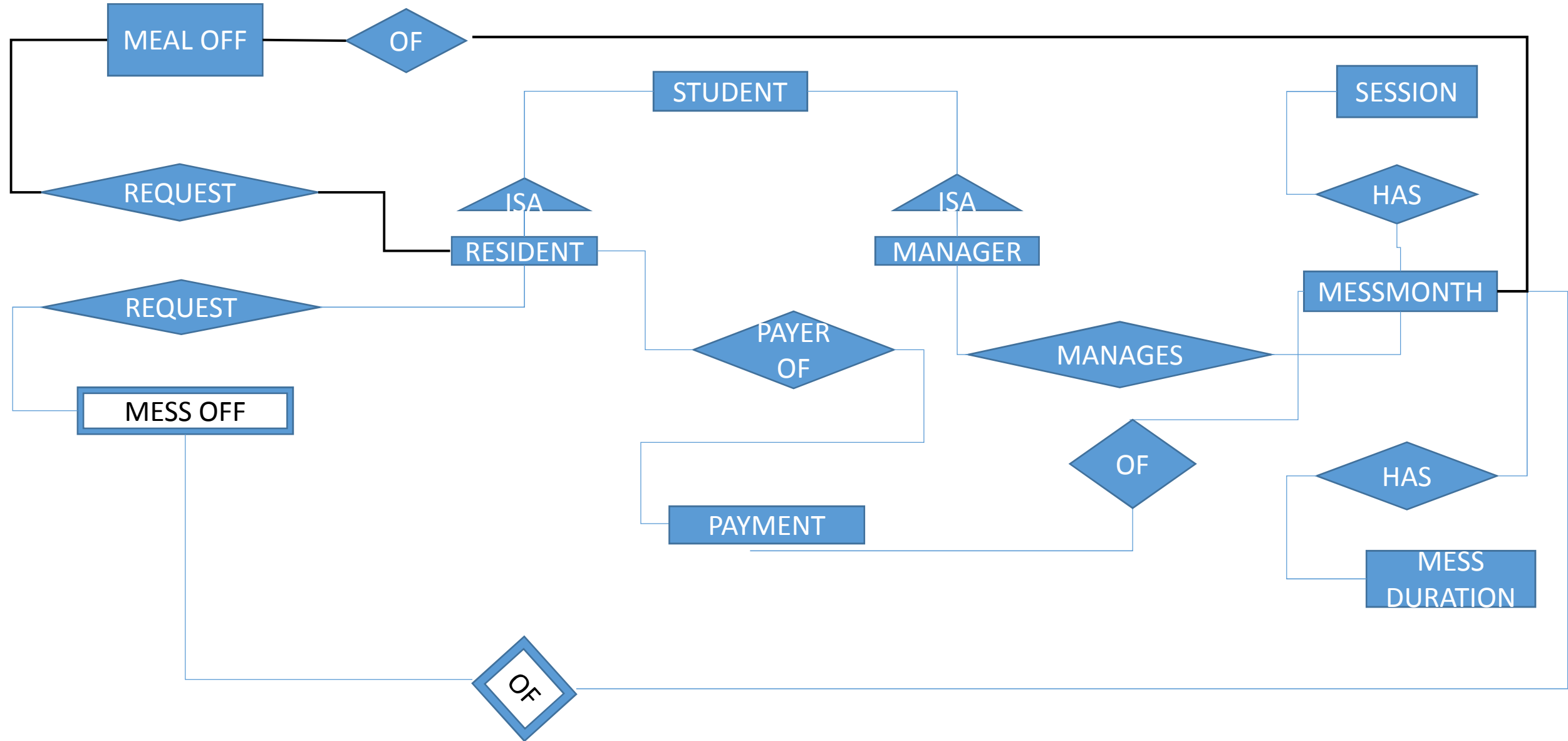


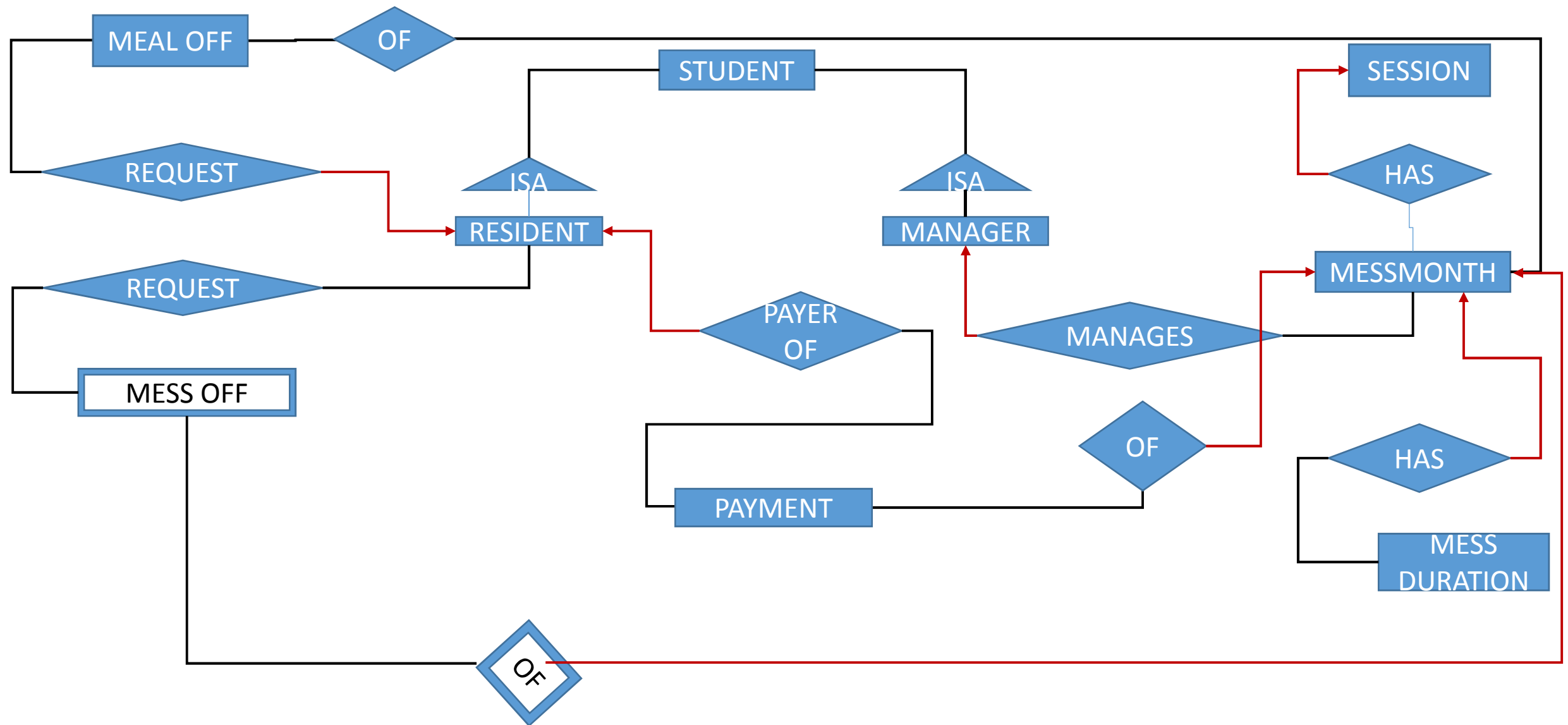


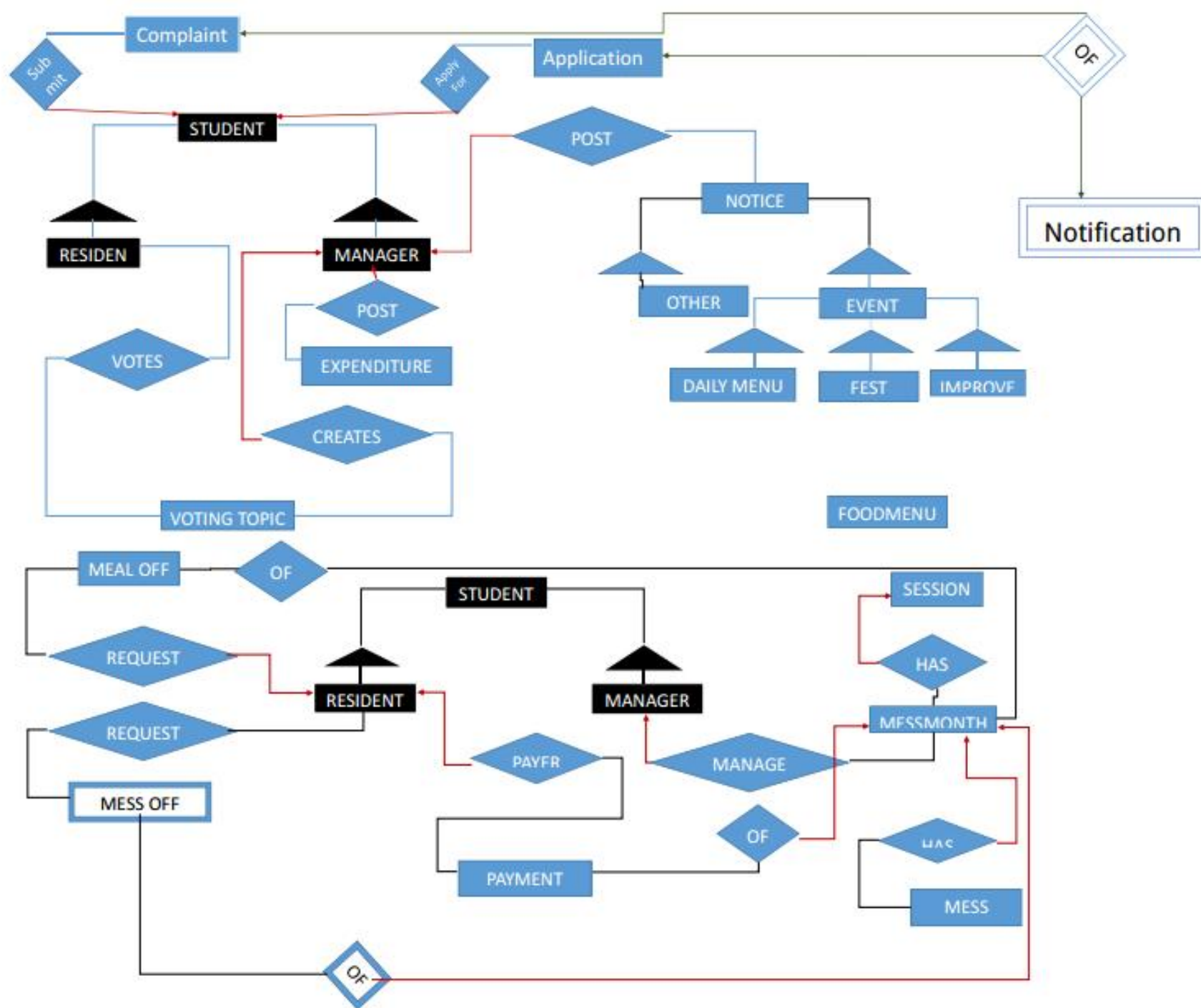












Database Table

PK-PRIMARY KEY

FK-FOREIGN KEY

PF-PRIMARY FOREIGN KEY

Student

First_name	: varchar2(30)
Last_name	: varchar2(30)
<u>Student ID</u>	: number(7)
RoomNumber	: number(4)
Mess_ID	: number(4)
Address	: varchar2(100)
Phone_no	: number(11)
Bloodgroup	: char(3)
Email_ID	: varchar2(50)

Student

First_name : varchar2(30)
Last_name : varchar2(30)
Student ID : number(7)
RoomNumber : number(4)
Mess_ID : number(4)
Address : varchar2(100)
Phone_no : number(11)
Bloodgroup : char(3)
Email_ID : varchar2(50)

Resident

Mess ID : number(4)
RoomNumber : number(4)
Charge_status : varchar2(10)

Student

First_name : varchar2(30)
Last_name : varchar2(30)
Student ID : number(7)
RoomNumber : number(4)
Mess_ID : number(4)
Address : varchar2(100)
Phone_no : number(11)
Bloodgroup : char(3)
Email_ID : varchar2(50)

Resident

Mess ID : number(4)
RoomNumber : number(4)
Charge_status : varchar2(10)

Application

ID : number(4)
Type : varchar2(10)
Status : varchar2(20)

Student

First_name : varchar2(30)
Last_name : varchar2(30)
Student ID : number(7)
RoomNumber : number(4)
Mess_ID : number(4)
Address : varchar2(100)
Phone_no : number(11)
Bloodgroup : char(3)
Email_ID : varchar2(50)

Resident

Mess ID : number(4)
RoomNumber : number(4)
Charge_status : varchar2(10)

Application

ID : number(4)
Type : varchar2(10)
Status : varchar2(20)

Notice

ID : number(4)
Content : varchar2(1000)
Date : date

Student

First_name : varchar2(30)
Last_name : varchar2(30)
Student ID : number(7)
RoomNumber : number(4)
Mess_ID : number(4)
Address : varchar2(100)
Phone_no : number(11)
Bloodgroup : char(3)
Email_ID : varchar2(50)

Resident

Mess ID : number(4)
RoomNumber : number(4)
Charge_status : varchar2(10)

Application

ID : number(4)
Type : varchar2(10)
Status : varchar2(20)

Notice

ID : number(4)
Content : varchar2(1000)
Date : date

Notifcation

ID : number(4)
Content : varchar(2)
Date : date

Student

First_name : varchar2(30)
Last_name : varchar2(30)
Student ID : number(7)
RoomNumber : number(4)
Mess_ID : number(4)
Address : varchar2(100)
Phone_no : number(11)
Bloodgroup : char(3)
Email_ID : varchar2(50)

Resident

Mess ID : number(4)
RoomNumber : number(4)
Charge_status : varchar2(10)

Application

ID : number(4)
Type : varchar2(10)
Status : varchar2(20)

Notice

ID : number(4)
Content : varchar2(1000)
Date : date

Notification

ID : number(4)
Content : varchar(2)
Date : date

Complaint

Type : varchar2(10)
ID : number(4)
Content : varchar2(1000)
Status : varchar2(20)
Date : date

TERM

TERMID :NUMBER(6)
NAME :VARCHAR2(20)
STARTDATE :DATE
ENDDATE :DATE

MONTHID

MONTHID :NUMBER(6)
MESSCHARGE :NUMBER(4)
DURATION :NUMBER(2)
DEADLINE :DATE

TERM_HAS_MONTH

TERMID :NUMBER(6)
MONTHID :NUMBER(6)

MESS_DURATION

DURATIONID :NUMBER(6)
STARTDATE :DATE
ENDDATE :DATE

MONTH_HAS_DURATION

DURATIONID :NUMBER(6)
MONTHID :NUMBER(6)

MANAGER_FOR_MONTH

MONTHID :NUMBER(6)
MANAGERID :NUMBER(6)

PAYMENT

PAYMENTID :NUMBER(7)
SCROLL_NUM :NUMBER(4)
PAYMENTDATE :DATE
AMOUNT :NUMBER(8,2)

PAYEROF

PAYMENTID :NUMBER(7)
STUDENTID :NUMBER(8)

PAYEEOF

PAYMENTID :NUMBER(7)
MANAGERID :NUMBER(6)

PAYMENT_FOR_MONTH

MONTHID :NUMBER(6)
PAYMENTID :NUMBER(7)

MESSOFF_REQUEST

MONTHID :NUMBER(6)
STUDENTID :NUMBER(8)

MEALOFF

MEALID :NUMBER(7)
START_DATE :DATE
END_DATE :DATE

MEALOFF_REQUEST

MEALID :NUMBER(7)
MONTHID :NUMBER(6)
STUDENTID :NUMBER(8)

STUDENT

STUDENTID :NUMBER(8)
MESSNO :NUMBER(4)
ROOM_NO :NUMBER(4)
PASSWORD :VARCHAR(20)

MANAGER

MANAGERID :NUMBER(6)
STUDENTID :NUMBER(8)

NOTICE

NOTICEID :NUMBER(7)
NOTICE_DATE : DATE

OTHER_NOTICE

NOTICEID :NUMBER(7)
NOTICE :VARCHAR2(1000)

FEST

NOTICEID :NUMBER(7)
MENU :VARCHAR(1000)

IMPROVE

NOTICEID :NUMBER(7)
MEALTYPE :VARCHAR2(10)
MENU :VARCHAR2(1000)

DAILY_MENU

NOTICEID :NUMBER(7)
LUNCH :VARCHAR2(100)
DINNER :VARCHAR2(100)

VOTES_ON

TOPIC_ID :NUMBER(5)
STUDENTID :NUMBER(8)

FOODMENU

FOODID :NUMBER(4)
NAME :VARCHAR2(30)
COST :NUMBER(6)

EXPENDITURE

EXPENDITURE_ :DATE
DATE
LUNCHCOST :NUMBER(6)
DINNERCOST :NUMBER(6)

VOTIC_TOPIC

TOPIC_ID :NUMBER(5)
TOPIC :VARCHAR2(1000)
TOPIC_DATE :DATE

IMPROVE

NOTICEID	:NUMBER(7)
MEALTYPE	:VARCHAR2(10)
MENU	:VARCHAR2(1000)

DAILY_MENU

NOTICEID	:NUMBER(7)
LUNCH	:VARCHAR2(100)
DINNER	:VARCHAR2(100)

VOTES_ON

TOPIC_ID	:NUMBER(5)
STUDENTID	:NUMBER(8)

FOODMENU

FOODID	:NUMBER(4)
NAME	:VARCHAR2(30)
COST	:NUMBER(6)

EXPENDITURE

EXPENDITURE_	:DATE
DATE	
LUNCHCOST	:NUMBER(6)
DINNERCOST	:NUMBER(6)

VOTIC_TOPIC

TOPIC_ID	:NUMBER(5)
TOPIC	:VARCHAR2(1000)
TOPIC_DATE	:DATE

POST_EXPENDITURE

EXPENDITURE_	:DATE
DATE	
MANAGERID	:NUMBER(6)

POST_NOTICE

NOTICEID	:NUMBER(7)
MANAGERID	:NUMBER(6)

Trigger

Trigger Name: *Update Mess Charge Status*

Time Of Execution: After inserting in payment table

Action: Update

Attribute: Charge Status

Table: Resident

Remark: If a student pays his/her mess charge then his/her charge status changes.

PAYMENT	
PAYMENTID	:NUMBER(7)
SCROLL_NUM	:NUMBER(4)
PAYMENTDATE	:DATE
AMOUNT	:NUMBER(8,2)

Resident

<u>Mess ID</u>	: number(4)
<u>RoomNumber</u>	: number(4)
➡ Charge_status	: varchar2(10)

Trigger Name: Update Room Number

Time Of Execution: After acceptance of room change application

Action: Update

Attribute: Room number

Table: Student

Remark: A student applies for room allocation or room change. If application is accepted then his/her room number changes.

Student

First_name	: varchar2(30)
Last_name	: varchar2(30)
<u>Student ID</u>	: number(7)
RoomNumber	: number(4)
Mess_ID	: number(4)
Address	: varchar2(100)
Phone_no	: number(11)
Bloodgroup	: char(3)
Email_ID	: varchar2(50)



Trigger Name: *Clears payment of mess manager*

Time Of Execution: After mess manager is selected

Action: Insert

Attribute: Payment ID, Student ID

Table: Payment

Remark: When a student is elected mess manager his/her mess charge is cleared by default for that particular month.

Trigger Name: *Delete Particular Notification*

Time Of Execution: When application status is changed.

Action: Delete

Attribute: Application ID, Student ID

Table: Notification

Remark: When corresponding authority views application corresponding notification is deleted.

Function

Procedure Name	Retrieve Money
Time Of Execution	SO executes this function to find how much money should return to the particular student for meal off.
Input	Student ID, Month ID
Output	Money to be returned
Apply on	Meal Off
Action	Select meal id from meal off where student id = input and month id= input

Procedure Name	Defaulter List
Time Of Execution	SO executes this function to make defaulter list for a particular term.
Input	Session ID
Output	Monthly due status of all student
Apply on	Mess Month, Payment
Action	Select month id from mess month where session=input; Select student id from payment.

Procedure Name	Vacant Seat
Time Of Execution	SO execute the procedure when he allocates room to the new student. Student executes the procedure when he wants to change room.
Input	Null
Output	List of vacant room.
Apply on	Resident
Action	Select Room Number, Room Capacity-count as vacant seat from Resident group by Room Number having count < room capacity.

END