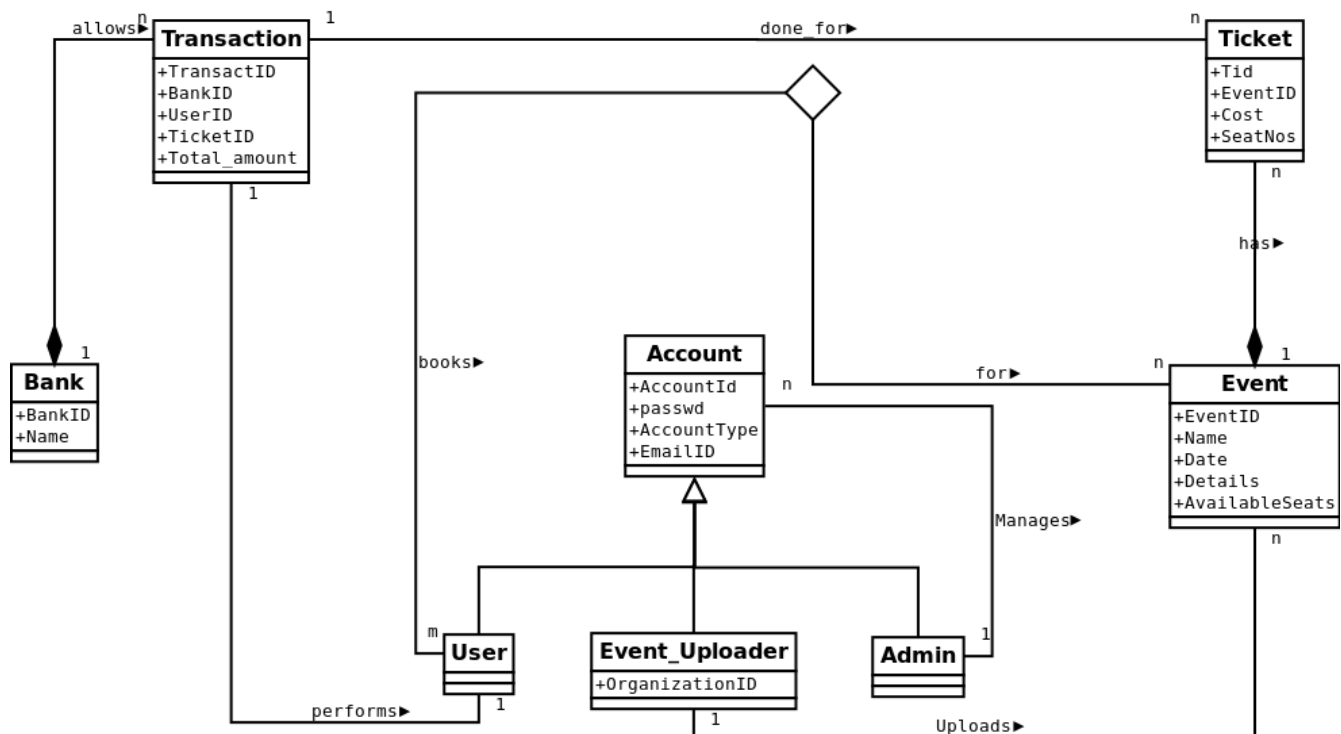# DBMS Project

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Usecases

1. Event Search - User can search for an event based on name or date.

2. Book Event - User can book for an event.

3. Update Event - Event manager can update an existing event.

4. Add Event - Event manager can add a new event.

5. View Transactions - Bank can view all the transactions between Book my show and the bank.

6. Manage Accounts - Admin can search user accounts by name and id.

7. Remove Accounts - Admin can remove a user account.

UML Class Diagram

Relational Database Design

Table Name = Account

Name of Column	Data Type	Constraints
Account_Id	char(10)	NOT NULL, UNIQUE, PRIMARY KEY, SURROGATE KEY
email	varchar(30)	NOT NULL, UNIQUE
password	varchar(20)	NOT NULL
fname	varchar(20)	NOT NULL
minit	varchar(2)	
lname	varchar(20)	NOT NULL
bdate	date	NOT NULL
address	varchar(100)	
sex	char(1)	NOT NULL, {'M', 'F', 'O'}
account_type	char(1)	NOT NULL, {'U', 'A', 'E'}
admin_acc	char(10)	NOT NULL, FOREIGN KEY references Account_Admin.admin_key

Table Name = Account_User

Name of Column	Data Type	Constraints
User_Id	char(10)	NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN KEY references Account.Account_Id

Table Name = Account_Event_Uploader

Name of Column	Data Type	Constraints
Uploader_Id	char(10)	NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN KEY references Account.Account_Id
Organization_Id	char(10)	NOT NULL, UNIQUE
Organization_Name	varchar(30)	NOT NULL

Table Name = Account_Admin

Name of Column	Data Type	Constraints
Admin_Id	char(10)	NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN KEY references Account.Account_Id

Table Name = Event

Name of Column	Data Type	Constraints
EventId	char(10)	NOT NULL, UNIQUE, PRIMARY KEY
Name	varchar(30)	NOT NULL
Date	date	NOT NULL
Address	varchar(30)	NOT NULL
Available_Seats	int	NOT NULL
Max_Seats	int	NOT NULL
Uploader_Id	char(10)	NOT NULL, UNIQUE, FOREIGN KEY references Account_Event_Uploader.Uploader_Id

Table Name = books_for

Name of Column	Data Type	Constraints
Event_Id	char(10)	NOT NULL, FOREIGN KEY references Event.Event_ID, PRIMARY KEY
User_Id	char(10)	NOT NULL, FOREIGN KEY references Account_User.User_Id, PRIMARY KEY

Table Name = Ticket

Name of Column	Data Type	Constraints
Ticket_Id	char(10)	NOT NULL, UNIQUE, PRIMARY KEY
Event_Id	char(10)	NOT NULL, FOREIGN KEY references Event.Event_Id,
Trans_Id	char(10)	NOT NULL, FOREGN KEY references Transaction.Trans_Id
Cost	int	
SeatNos	int	

Table Name = Transaction

Name of Column	Data Type	Constraints
Trans_Id	char(10)	NOT NULL, UNIQUE, PRIMARY KEY
Bank_Id	char(10)	NOT NULL, FOREIGN KEY references Bank.Bank_Id
User_Id	char(10)	NOT NULL, FOREIGN KEY references Account_User.User_Id
Total_amount	int	NOT NULL
Trans_date	date	NOT NULL
Trans_time	varchar(20)	NOT NULL

Table Name = Bank

Name of Column	Data Type	Constraints
Bank_Id	char(10)	NOT NULL, UNIQUE, PRIMARY KEY
Bank_Name	varchar(20)	NOT NULL
Address	varchar(30)	

Individual Contributions

1. Roniit – Worked on Account and Bank classes and their corresponding DAO files. Worked on sql scripts and DAO_Main files.
2. Lijo – Worked on Event_Uploader and Ticket classes and their corresponding DAO files .

Worked on sql scripts and DAO_Main files.
3. Sri krishna – Worked on User, Books_for and Transactions classes and their corresponding DAO files. Worked on sql scripts and DAO_Main files.
4. Sanat – Worked on Admin and Event classes and their corresponding DAO files. Worked on sql scripts and DAO_Main files.