

Northeastern University  
**DAMG6210 - Data Management and Database Design**

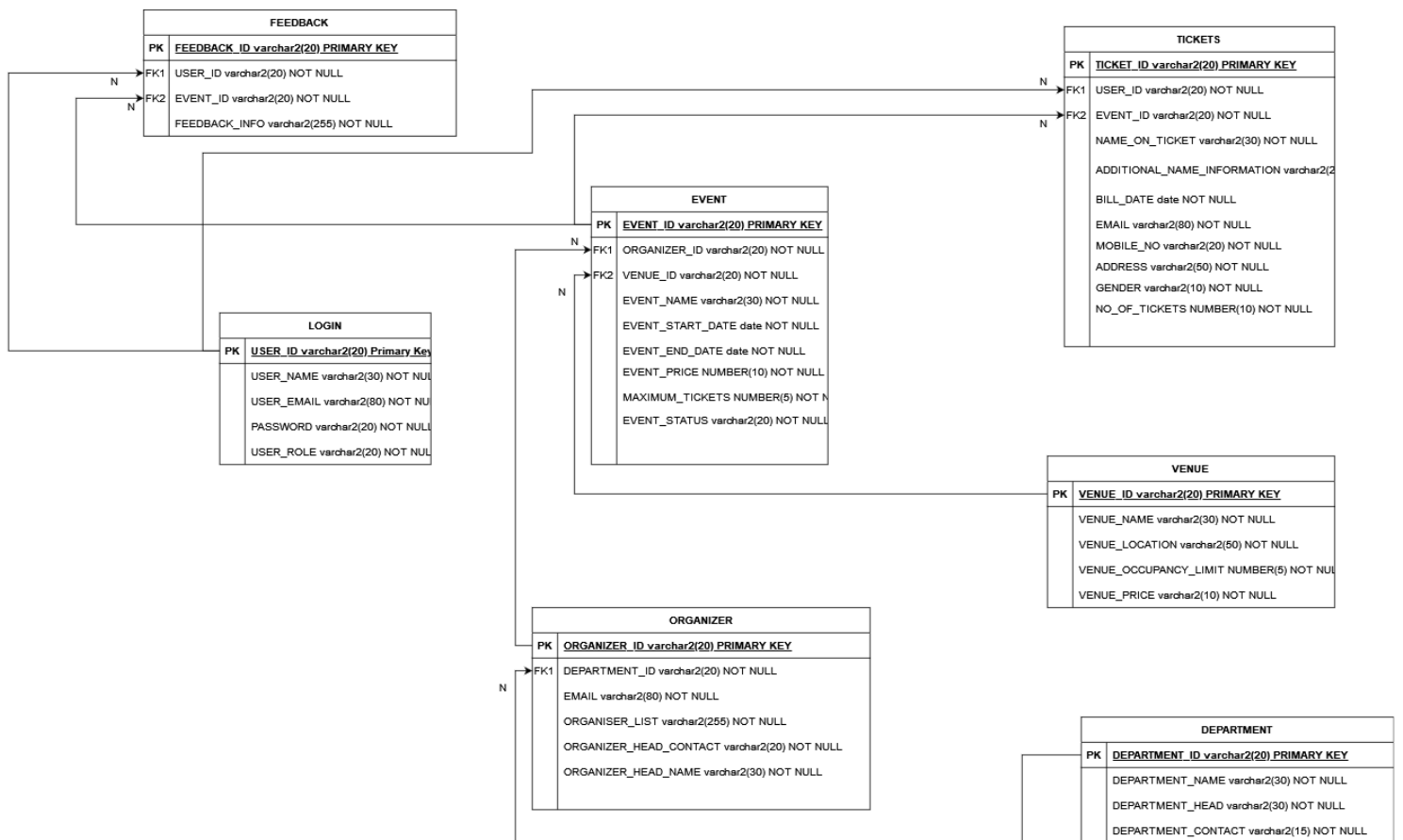
**Team Name - Runtime Terror**

**Project Topic : Event Management System**

**TEAM :**

NAME	EMAIL	NUID
Thejas Bharadwaj	bharadwaj.t@northeastern.edu	002727189
Shamin Chokshi	chokshi.sh@northeastern.edu	002763957
Nishtha Pandya	pandya.nish@northeastern.edu	002797481
Vishwa Shah	shah.vishw@northeastern.edu	002729569

**Revised ERD [Final version] :**



## **Business Rules :**

- One user can be affiliated with one User Account only
- One Department can have many Event Organizers
- One Event organiser can organise many events
- One User account can book up to 5 tickets for one event
- One user can give one feedback for one particular event
- One event can have only one Organiser
- An Organiser can cancel an Event but it has to be before the start date.
- An Organiser can modify the time and date of an event but it has to be before the start date.
- An Organiser can hold Events at multiple venues provided they are not at the same time.
- View should be made accordingly such that a student only sees events that are available and not events that are cancelled or unavailable
- Once all tickets for an event are booked (i.e. booked tickets are equal to the maximum number of tickets for an event) the status of the event should change from 'available' to 'unavailable'.

## **Views List :**

### *Admin :*

1. Number of users for a particular role
2. List of cancelled events

### *Organiser :*

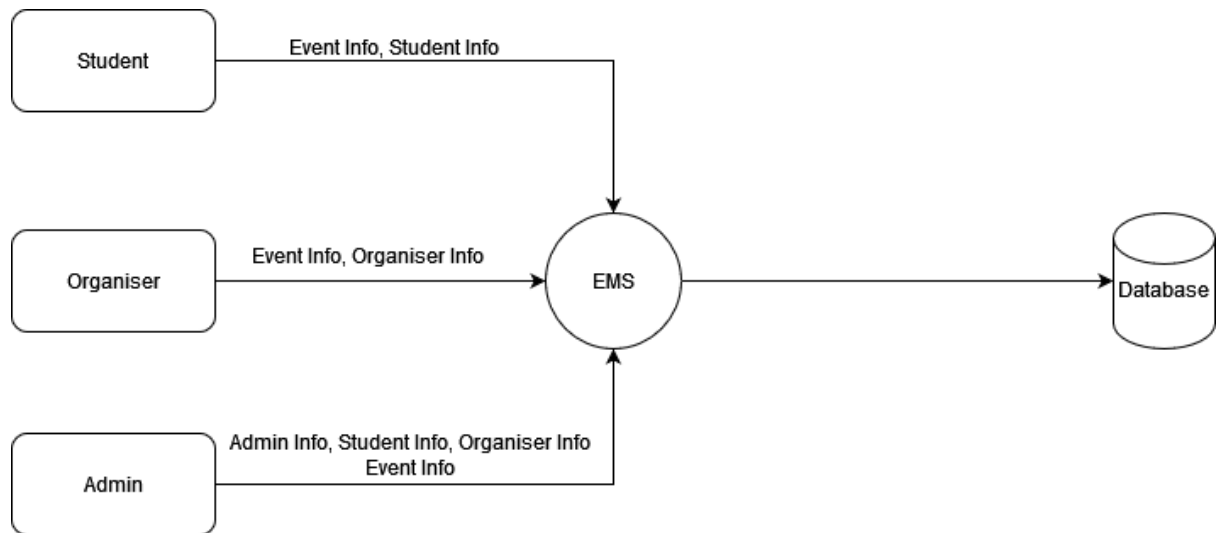
1. Registered students for a particular event
2. Feedback for an event
3. Order Invoice for all the customers / students
4. Ratio of male to female for a particular event
5. Total revenue for a particular event
6. Ratio of number of tickets depending on particular events
7. Venue availability
8. Total number of tickets sold for all completed events

### *Student :*

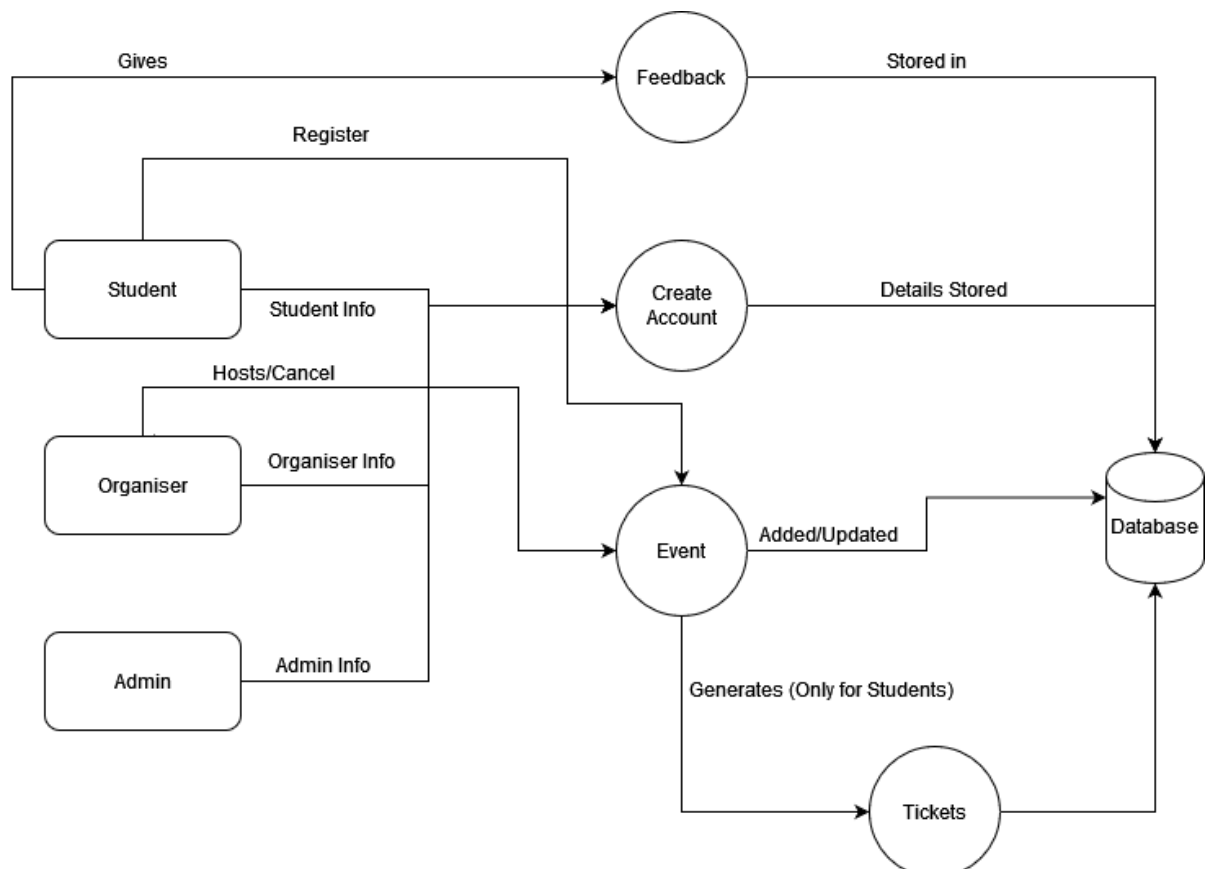
1. List of all the available events for a particular day / month
2. List of events sorted by departments

## Data Flow Diagrams :

### DFD Level 0



### DFD Level 1



## **Roles and Security:**

- 1) Admin** - This is the administrator of the database system and as such will have all the control. Admin will be able to Create/Delete Events(If needed), Add/Remove organisers. Admin can also change/create the passwords of the users.

**Permissions** : Admin will have access to all data in the database. He can Create/Insert/Delete/Update information in any of the tables in the database.

- 2) Organiser** - Organisers can hold events by booking a venue and setting a price for the event. Event organisers are also part of a department and can hold multiple events even in a day. An event will have a maximum capacity which can be specified by the organiser in accordance with the max capacity of the venue.

**Permissions** : Organisers will only have access to change the information related to events. They can perform INSERT/UPDATE operations on Events, Login, and Organiser tables.

- 3) Students** - Students will attend the events hosted by the organisers. They will be able to login to their account, view all the events scheduled and register for any of them. One student can register for as many events as needed but the time and date of events should not clash with each other. After registering for an event, a ticket is generated and that ticket will be used to get access to the venue where the event is taking place. Also one student can book multiple tickets for their friends but only 1 ticket will be generated which will be valid for all people.

**Permissions** : Students will have access to only view the events taking place, Create user accounts through which students will book the ticket. Hence Students can only perform READ/INSERT operations on Tickets, Events, and Login tables.

