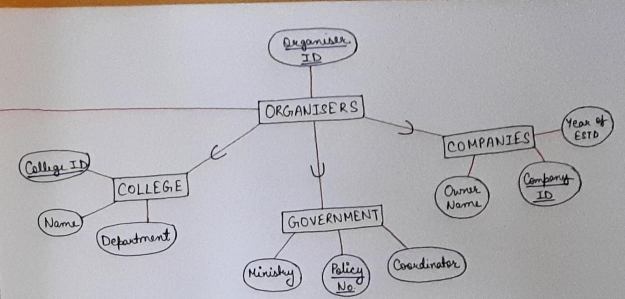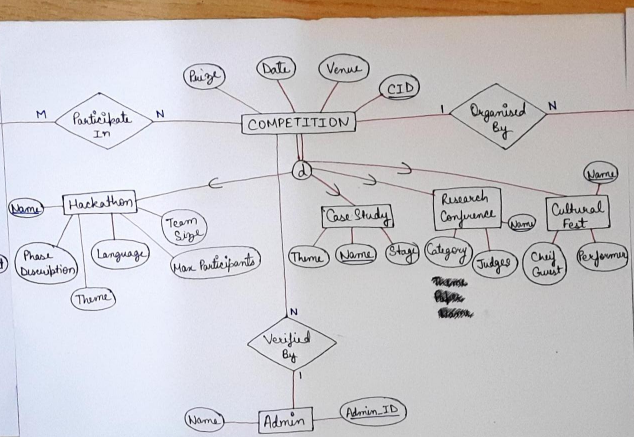# **CSD-317**: Project *EER & Relational* Model
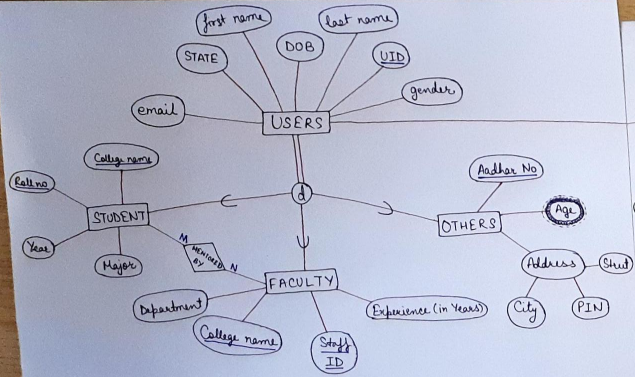
<u>*Group Members*</u>

1. Aaradhy Sharma - 2210110100
2. Dhruv Mishra - 2210110674
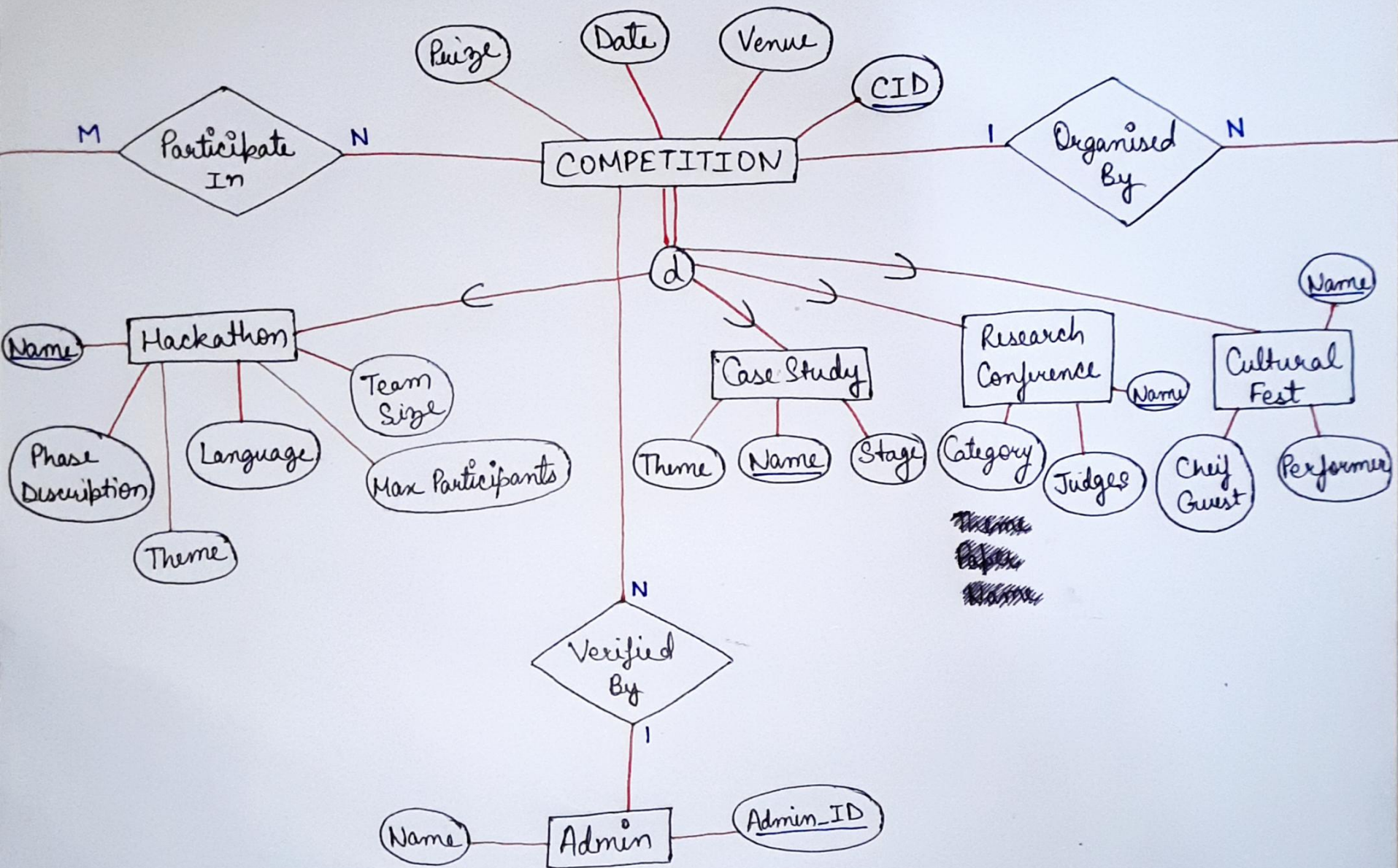3. Unnat Sharma - 2210110634

<u>Project Description</u>: A system to track and search about the various events being hosted by organizations such as Private/Government agencies and Colleges for students and other various people to take part in. Example: https://www.unstop.com.
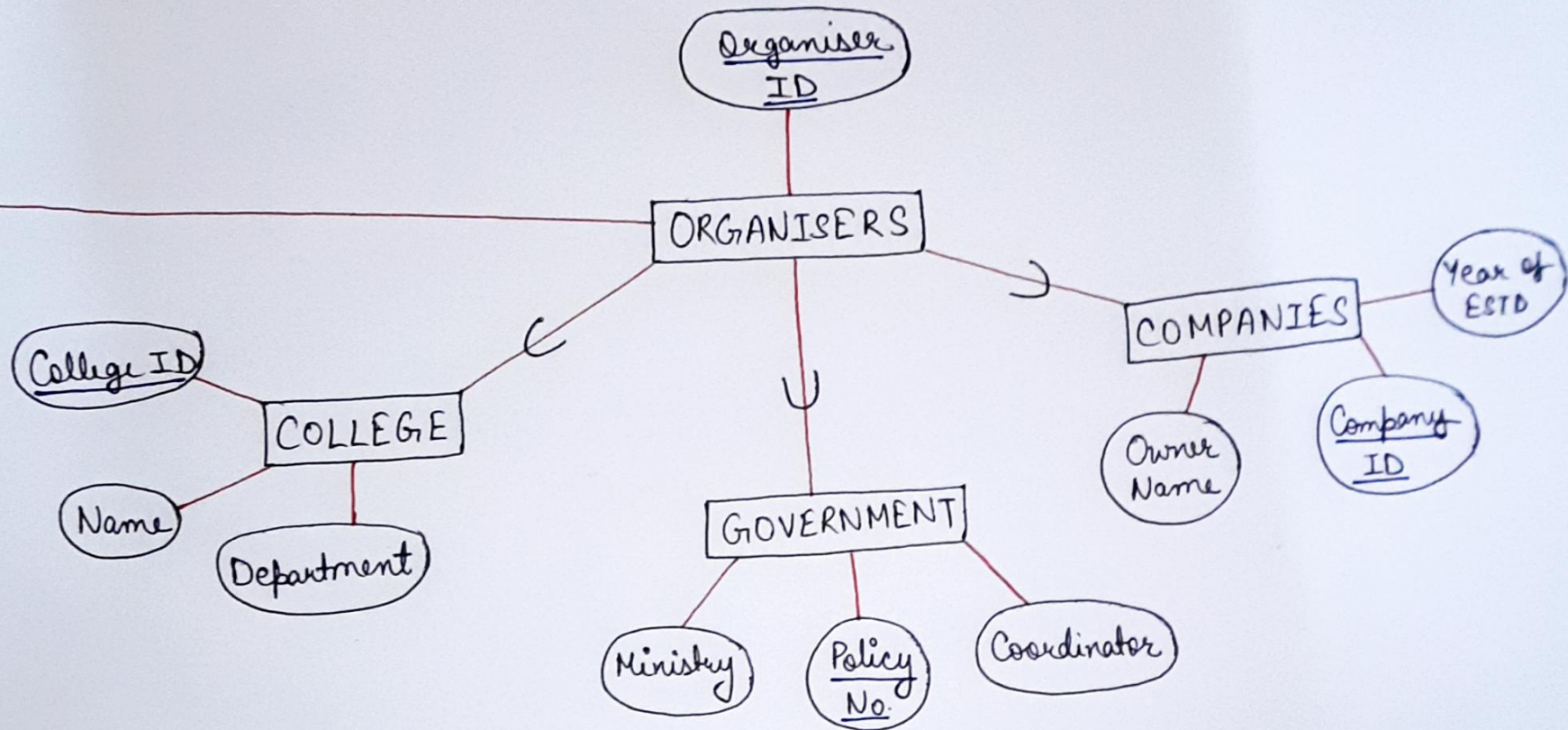
Resources Used:

https://amirsmvt.github.io/Database/Static_files/Fundamental_of_Database_Systems.pdf
(Textbook)

ER Diagram

USERS Entity (left panel)

Attributes of **USERS**:
- first name
- last name
- DOB
- STATE
- UID
- gender
- email

USERS connects (via "d" specialization) to **STUDENT** and **OTHERS**

Attributes of **STUDENT**:
- College name
- Roll no
- Year
- Major

STUDENT — M — *Mentored by* — N — **FACULTY**

Attributes of **FACULTY**:
- Department
- College name
- Staff ID
- Experience (in Years)

Attributes of **OTHERS**:
- Aadhar No
- Age
- Address (→ Stud, City, PIN)

COMPETITION Entity (middle panel)

USERS — M — *Participate In* — N — **COMPETITION**

Attributes of **COMPETITION**:
- Prize
- Date
- Venue
- CID

COMPETITION — 1 — *Organised By* — N — **ORGANISERS**

COMPETITION connects (via "d" specialization) to: **Hackathon**, **Case Study**, **Research Conference**, **Cultural Fest**

Attributes of **Hackathon**:
- Name
- Phase (Disruption)
- Language
- Theme
- Team Size
- Max Participants

Attributes of **Case Study**:
- Theme
- Name
- Staff

Attributes of **Research Conference**:
- Category
- Judges
- Name
- Theme, Paper, Ideation

Attributes of **Cultural Fest**:
- Name
- Chief Guest
- Performer

Research Conference — N — *Verified By* — 1 — **Admin**

Attributes of **Admin**:
- Name
- Admin_ID

ORGANISERS Entity (right panel)

Attribute of **ORGANISERS**:
- Organiser ID

ORGANISERS connects to: **COLLEGE**, **GOVERNMENT**, **COMPANIES**

Attributes of **COLLEGE**:
- College ID
- Name
- Department

Attributes of **GOVERNMENT**:
- Ministry
- Policy No.
- Coordinator

Attributes of **COMPANIES**:
- Year of ESTD
- Owner Name
- Company ID

ER Diagram

- first name
- last name
- DOB
- STATE
- UID
- gender
- email

USERS

d

STUDENT
- Roll no
- College name
- Year
- Major

MENTORED BY (M : N)

FACULTY
- Department
- College name
- Staff ID
- Experience (in Years)

OTHERS
- Aadhar No
- Age
- Address
  - Street
  - City
  - PIN

ER Diagram:

- **Participate In** (M — N relationship with COMPETITION)
- **COMPETITION** with attributes: Prize, Date, Venue, CID
- **Organised By** (1 — N relationship)
- **Hackathon** with attributes: Name, Phase Discription, Language, Theme, Team Size, Max Participants
- **Case Study** with attributes: Theme, Name, Stage
- **Research Conference** with attributes: Category, Judges, Name
- **Cultural Fest** with attributes: Name, Cheif Guest, Performer
- **Verified By** (N — 1 relationship)
- **Admin** with attributes: Name, Admin_ID

Organiser ID

ORGANISERS

COLLEGE

College ID

Name

Department

GOVERNMENT

Ministry

Policy No.

Coordinator

COMPANIES

Year of ESTD

Owner Name

Company ID

USERS

UID	Gender	first Name	last Name	DOB	State	email

STUDENT

UID	College Name	Roll no	Year	Major

MENTORED BY

Roll no	College name	Staff ID

FACULTY

UID	College Name	Staff ID	Department	Experience

OTHERS

UID	Aadhar No	Age	Address		
			Street	PIN	City

Participate In

UID	CID

COMPETITION

Prize	CID	Venue	Date	Admin ID

Hackathon

CID	Name	Phase Desc.	Theme	Language	Team Size	Max Participants

Case Study

CID	Name	Theme	Stage Desc

Research Conference

CID	Category	Judges	Name

Cultural Fest

CID	Name	Performers	Chief Guest

ORGANISERS

Organiser ID	CID

College

College ID	Name	Department	Organiser ID

Government

Ministry	Policy No	Coordinator	Organiser ID

Companies

Owner Name	Company ID	Year of ESTD	Organiser ID