The name of the cohort: ClubDisLinkers

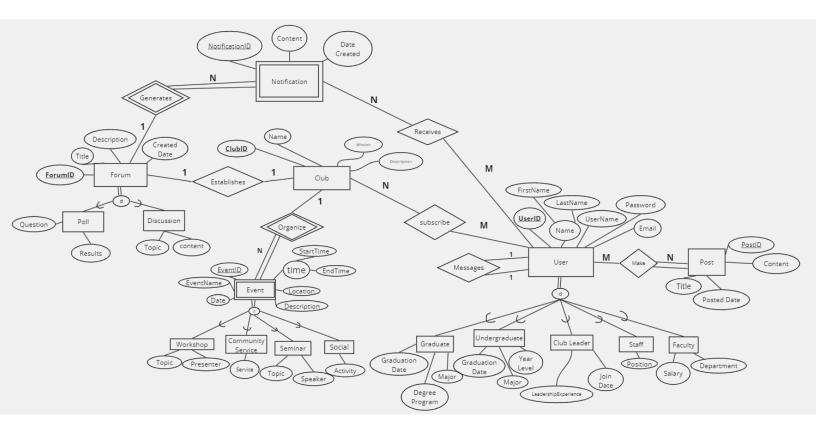
The description of the Mini-World: Comet Connect!

Welcome to Comet Connect, the University of Texas at Dallas club hub app! This app is your gateway to exploring and engaging with a diverse array of clubs, each hosting exciting events on campus.

Whether you're a student (undergraduate or graduate) or an employee (staff, faculty, or club faculty), the app simplifies the process of subscribing to clubs that match your interests. Once subscribed, you can actively participate by making posts, in the form of polls or discussions, within the app, and these posts will be stored in dedicated discussion forums created by the clubs, and users will get notified by the app when something new is posted! Users can also message each other via direct messaging.

Discover an array of events organized by clubs, such as workshops, community service activities, seminars, and social gatherings. What makes Comet Connect special is the active involvement of club faculty who not only guide but also host the clubs. Students and employees have the opportunity to transition into club faculty, and employees, including staff and faculty, can become integral members of the hosting process.

Comet Connect is more than just an app; it's a dynamic platform designed to bring the university community together. Explore, engage, and connect through clubs, events, and discussions—all conveniently accessible through the Comet Connect app. It's your go-to space for fostering a sense of community and staying actively involved in campus life.



Even though the hosts of the clubs can be considered employees, we chose to make a new entity called club faculty, which students and employees can both join. We assume that club hosts are not considered employees of the university.

In this mini-world, only clubs are allowed to organize events, making the event entity a weak entity.

Even though users are both employees and students, we choose to add a subscribe relationship between users and the club since some users will subscribe to the club and become members or branch off to become leaders/organizers.

When a club is made, the club can choose to establish a forum to keep communication with users there. Users (which include club faculty) can post to the forum.

Users can directly message each other. No group messaging.

Whenever a user is part of a forum, they will get notified by the forum and users of that forum will receive the notification.

Entity Dictionary:

Club:

Description: An organization within the university that hosts events and has members.

Attributes:

- ClubID: Integer, an identifying number for the club
- Name: Varchar(5000), the name of the club
- Mission: Text, a statement describing the club's goals and purpose.
- Description: Varchar(5000), Description of the club
- Primary Key: ClubID

Club Leaders:

Description: The user leaders of which clubs.

Attributes:

- Leadership Experience: Integer, experience in leadership roles.
- VisionForTheClub: Text. vision for the club's future and direction.
- JoinDate: DATE, the day the user joined as a club leader
- Primary Key: Inherits UserID from superclass User

Community Service:

Description: The club faculty hosts a community service for the club.

Attributes:

- Service: Varchar(20), specifies what the service will be
- Primary Key: Inherits EventID from superclass Event

Discussion

Description: Represents a discussion within the discussion forum.

Attributes:

- Topic: Varchar(100), the topic of the discussion
- Content: Text, the content of the discussion
- Primary Key: Inherits ForumID from superclass Forum

Event:

Description: Various events organized within the university by clubs.

- EventID: Integer, an identifying number for the event(Partial Key)
- EventName: Varchar(80), the name of the event
- Date: Date, the date of the event
- Time: Time, a compound attribute that contains StartTime and EndTime
- StartTime: Time, the start time of the event
- EndTime: Time, the end time of the event
- Location: Varchar(100), the location where the event will be held
- Description: Text, a brief description of the event

• Primary Key: EventID

Faculty:

Description: Faculty members of the university.

Attributes:

- Department: Varchar(50), the department where the faculty member works
- Salary: Float, The salary of the faculty member
- Primary Key: Inherits UserID from superclass User

Forum:

Description: Entity representing a discussion forum for clubs where members make posts and post polls.

Attributes:

- ForumID: Integer, an identifying number for the discussion forum
- Title: Varchar(100), the title of the forum
- Description: Text, a brief description of the forum's purpose
- CreatedDate: Date, the date when the forum was created
- Primary Key: ForumID

Graduate:

Description: Graduate students within the university.

Attributes:

- DegreeProgram: Varchar(50), the degree program the graduate student is enrolled in.
- Major: Varchar(50), the major of the student
- GraduationDate: Date, the expected graduation date of the student
- Primary Key: Inherits UserID from superclass User

Notification:

Description: Notifications within the university's club application.

Attributes:

- NotificationID: Integer, an identifying number for the notification
- Content: Text, the content of the notification
- DateCreated: Date, the date when the notification was created
- Primary key: NotificationID

Poll

Description: Represents a poll within the discussion forum.

Attributes:

- Question: Varchar(5000), the question of the poll
- Results: Date, when to see the results of the poll
- Primary Key: Inherits ForumID from superclass Forum

Post:

Description: User-generated posts within the university's club application.

- PostID: Integer, an identifying number for the post
- Title: Varchar(500), the title of the post
- Content: Text, the content of the post
- PostedDate: Date, the date when the post was created
- Primary Key: PostID

Seminar:

Description: A type of event representing seminars organized by clubs.

Attributes:

- Topic: Varchar(100), the topic of the seminar
- Speaker: Varchar(100), the name of the speaker/presenter
- Primary Key: Inherits EventID from superclass Event

Social:

Description: A type of event representing social gatherings organized by clubs.

Attributes:

- Activity: Varchar(100), the activity planned for the social event
- Primary Key: Inherits EventID from superclass Event

Staff:

Description: Staff members of the university.

Attributes:

- Position: Varchar(50), the position/title of the staff member
- Primary Key: Inherits UserID from superclass User

Undergraduate:

Description: Undergraduate students within the university.

Attributes:

- YearLevel: Integer, the current year level of the undergraduate student
- Major: Varchar(50), the major of the student
- GraduationDate: Date, the expected graduation date of the student
- Primary Key: Inherits UserID from superclass User

User:

Description: Users of the club application within the university.

- UserID: Integer, a unique identifier for the user
- Name: Varchar(200), the first name and last name of the user
- FirstName: Varchar(100), the first name of the user
- LastName: Varchar(100), the last name of the user
- UserName: Varchar(80), the username of the user
- Password: Varchar(50), the password of the user
- Email: Varchar(100), the email address of the user
- Primary Key: UserID

Workshop:

Description: A type of event representing workshops organized by clubs.

- Topic: Varchar(100), the topic of the workshop
- Presenter: Varchar(100), the name of the presenter/organizer
- Primary Key: Inherits EventID from superclass Event

Relation Dictionary:

Relationship: Establishes

Description: Clubs establish one discussion forum. Each discussion forum is established by one club. Discussion forums can exist without being established by a club; clubs can exist without establishing

discussion forums.

Entities: Club, Discussion Forum

Cardinality: One Club to One Discussion Forum

Participation: Partial-to-Partial

Relationship: Generates

Description: Forums generate many notifications. Each notification is generated by one forum. Forums may exist without generating notifications; notifications cannot exist without being generated by a forum.

Entities: Forum, Notification

Cardinality: One Forum to Many Notifications

Participation: Partial-to-Total

Relationship: Make

Description: Each user can make one or more posts, and each post can be made by one or more users. Users may exist without making any posts, but each post must be associated with at least one user, and each user may contribute to multiple posts.

Entities: User, Post

Cardinality: Many Users to Many Posts

Participation: Partial-to-Total

Relationship: Messages

Description: Users can send messages to one another. Each user can send messages to one or more users, and each user can receive messages from one or more users. Users can exist without sending or receiving any messages.

Entities: User

Cardinatility: one user to one user **Participation:** Partial to partial

Relationship: Organize

Description: Clubs organize one or more events. Events must be organized by one club. Events cannot exist without being organized by a club; clubs can exist without organizing events.

Entities: Club. Event

Cardinality: One Club to Many Events

Participation: Partial-to-Total

Relationship: Receives

Description: Users can get notifications, and notifications can go to multiple users. Not all users get all notifications, and not all notifications go to all users.

Entities: User, Notification

Cardinatility: many users to many notifications

Participation : Partial to Partial

Relationship: Subscribes

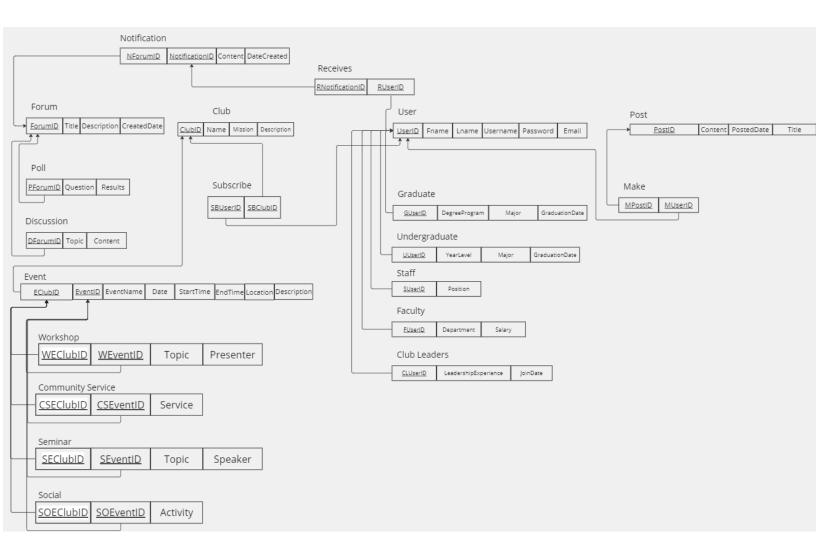
Description: Users subscribe to one or more clubs. Clubs have one or more subscribers. Users can exist

without subscribing to any club; clubs can exist without having any subscribers.

Entities: User, Club

Cardinality: Many Users to Many Clubs

Participation: Partial-to-Partial



Schema Dictionary:

Name: Club

Description: An organization within the university that hosts events and has members.

Attributes:

• ClubID: Integer, an identifying number for the club

• Name: Varchar(5000), the name of the club

• Mission: Text, a statement describing the club's goals and purpose.

• Description: Varchar(5000), Description of the club

• Primary Key: ClubID

Name: Club Leaders

Description: The user leaders of which clubs.

Attributes:

• CLUserID: Integer, a unique identifier for the club leaders

• Leadership Experience: Integer, experience in leadership roles.

• JoinDate: DATE, the date the user became a leader

• Primary Key: CLUserID

• Foreign Key: CLUserID references UserID

Name: Community Service

Description: The club faculty hosts a community service for the club.

Attributes:

• CSEventID: Integer, an identifying number for community service

• CSEClubID: Integer, an identifying number for the EClubID

• Service: Varchar(20), specifies what the service will be

• Primary Key: CSEventID, CSEClubID

• Foreign Key: CSEventID references EventID, CSEClubID references EClubID

Name: Discussion

Description: Entity representing a discussion between members.

Attributes:

• DForumID: Integer, an identifying number for the discussion.

• Topic: Varchar(100), broad idea of what the discussion will be about.

• Content: Text, all the material that will be covered in the discussion.

• Primary Key: DForumID

• Foreign Key: DForumID references ForumID

Name: Event

Description: Various events organized within the university by clubs.

Attributes:

• EClubID: Integer, an identifying number for the club

• EventID: Integer, an identifying number for the event

- EventName: Varchar(80), the name of the event
- Date: Date, the date of the event
- StartTime: Time, the start time of the event
- EndTime: Time, the end time of the event
- Location: Varchar(100), the location where the event will be held
- Description: Text, a brief description of the event
- Primary Key: EventID, EClubID
- Foreign Key: EClubID references ClubID

Name: Faculty

Description: Faculty members of the university.

Attributes:

- FUserID: Integer, a unique identifier for the faculty
- Department: Varchar(50), the department where the faculty member works
- Salary: Float, Annual Income for each faculty member.
- Primary Key: FUserID
- Foreign Key: FUserID references UserID

Name: Forum

Description: Entity representing a forum for clubs where members make posts.

Attributes:

- ForumID: Integer, an identifying number for the forum.
- Title: Varchar(100), the title of the forum
- Description: Text, a brief description of the forum's purpose
- CreatedDate: Date, the date when the forum was created
- Primary Key: ForumID

Name: Graduate

Description: Graduate students within the university.

Attributes:

- GUserID: Integer, a unique identifier for the graduate user
- DegreeProgram: Varchar(50), the degree program the graduate student is enrolled in.
- Major: Varchar(50), Field of study student is studying.
- Graduation Date: Date, Date student graduates.
- Primary Key: GUserID
- Foreign Key: GUserID references UserID

Name: Make

Description: Subscribed users make posts in the forum

Entitles: User, Post

Participation: Partial, total **Cardinality:** Many-to-many

Attributes:

• MPostID: Integer, an identifying number for the post

- MUserID: Integer, a unique identifier for the user
- Primary Key: MPostID, MUserID
- Foreign Key: MPostID references PostID, MUserID references UserID

Name: Notification

Description: Entity representing a notification sent to users via forums they're in

Attributes:

- NForumID: Integer, an identifying number for the forum.
- NotificationID: Integer, an identifying number for the notification
- Content: Text, the content of the notification
- DateCreated: Date, A date the notification was sent
- Primary Key: NotificationID, NForumID
- Foreign Key: NForumID references ForumID

Name: Poll

Description: User-generated polls within the university's club application.

Attributes:

- PForumID: Integer, an identifying number for the poll.
- Question: Varchar(500), Question the poll asks the users.
- Results: DATE, when the results are posted
- Primary Key: PForumID
- Foreign Key: PForumID references ForumID

Name: Post

Description: User-generated posts within the university's club application.

Attributes:

- PostID: Integer, an identifying number for the post
- Content: Text, the content of the post
- PostedDate: Date, the date when the post was created
- Title: Varchar(100), Title of post.
- Primary Key: PostID

Name: Receives

Description: Subscribed users to a forum receive a notification

Entitles: Notification, User Participation: Partial, partial Cardinality: Many-to-Many

Attributes:

- RNotificationID: Integer, an identifying number for the notification
- RUserID: Integer, a unique identifier for the user
- Primary Key: RNotificationID, RUserID
- Foreign Key: RNotificationID references NotificationID, RUserID references UserID

Name: Seminar

Description: A type of event representing seminars organized by clubs.

Attributes:

- SEventID: Integer, an identifying number for the seminar
- SEClubID: Integer, an identifying number for EClubID
- Topic: Varchar(100), the topic of the seminar
- Speaker: Varchar(100), the name of the speaker/presenter
- Primary Key: SEventID, SEClubID
- Foreign Key: SEventID references EventID, SEClubID references EClubID

Name: Social

Description: A type of event representing social gatherings organized by clubs.

Attributes:

- SOEventID: Integer, an identifying number for the social event
- SOClubID: Integer, an identifying number for EClubID
- Activity: Varchar(100), the activity planned for the social event
- Primary Key: SEventID, SOClubID
- Foreign Key: SEventID references EventID, SOClubID references EClubID

Name: Staff

Description: Staff members of the university.

Attributes:

- SUserID: Integer, a unique identifier for the staff users
- Position: Varchar(50), the position/title of the staff member
- Primary Key: SUserID
- Foreign Key: SUserID references UserID

Name: Subscribe

Description: Users scribe to a club to join it

Entitles: User, Club

Participation: Partial, partial **Cardinality:** Many-to-many

Attributes:

- SBUserID: Integer, a unique identifier for the user
- SBClubID: ClubID: Integer, an identifying number for the club
- Primary Key: SBUserID, SBClubID
- Foreign Key: SBUserID references UserID, SBClubID references ClubID

Name: Undergraduate

Description: Undergraduate students within the university.

- UUserID: Integer, a unique identifier for the undergraduate user
- YearLevel: Integer, the current year level of the undergraduate student
- Major: Varchar(20), Field of study student is studying.
- Graduation Date: Date, Date student graduates.

• Primary Key: UUserID

• Foreign Key: UUserID references UserID

Name: User

Description: Users of the club application within the university.

Attributes:

UserID: Integer, a unique identifier for the user
Fname: Varchar(100), the first name of the user
Lname: Varchar(100), the last name of the user

Username: Varchar(80), the username of the user
Password: Varchar(50), the password of the user
Email: Varchar(100), the email address of the user

Email: varenar(100), the email address of the ds

• Primary Key: UserID

Name: Workshop

Description: A type of event representing workshops organized by clubs.

- WEventID: Integer, an identifying number for the workshop
- WEClubID: Integer, an identifying number for the EClubID
- Topic: Varchar(100), the topic of the workshop
- Presenter: Varchar(100), the name of the presenter/organizer
- Primary Key: WEventID, WEClubID
- Foreign Key: WEventID references EventID, WEClubID references EClubID