

Phase 1 Database Project (ICOM5016 / CIIC4060)

Group Name: “404 Error: Power Not Found”

Group Members and emails:

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Entities

User

- **user_id**: is the primary key used to distinguish between each user.
- **user_name**: is a composite attribute
- **authorization**: the type of user can be:
 - Admin
 - Staff
 - Profesor
 - student
- **user_email**: is a multivalued attribute
- **user_password**: is an atomic attribute chosen by the user to allow access to its corresponding account.

Room

- **room_id**: is the primary key used to distinguish between each room.
- **room_type**: the type of user can be
 - Laboratory
 - Classroom
 - Auditorium
- **room_address**: is a composite attribute, the location of the room

Meeting

- **meeting_id**: is the primary key used to distinguish between each meeting.
- **meeting_date**: is an atomic attribute
- **meeting_start_time**: is an atomic attribute
- **meeting_end_time**: is an atomic attribute
- **room_id (FK)**: foreign key to table room

User Availability

- **user_av_id:** is the primary key used to distinguish between each user availability
- **user_start_time:** is an atomic attribute,
- **user_end_time:** is an atomic attribute
- **user_id (FK):** foreign key to table user

Room Availability

- **room_av_id:** is the primary key used to distinguish between each room availability
- **room_start_time:** is an atomic attribute
- **room_end_time:** is an atomic attribute
- **room_id (FK):** foreign key to table room

Invites

- **user_id (FK1):** foreign key to table user
- **meeting_id (FK2):** foreign key to table meeting

Relationships

User - Invites

- It is a one-to-many relationship because a user can make many invitations but a specific invitation can only be made by one user.

User - User Availability

- It is a one-to-many relationship because a user can make many schedules, but a specific schedule can only be made by one user.

Meeting - Invites

- It is a many-to-one relationship because each single meeting may have many invites referencing it, and/or many invites can reference a single meeting.

Meeting - Room

- It is a many-to-one relationship because there may be many meetings but a meeting will only have one room.

Room - Room Availability

- It is a one-to-many relationship because a meeting can be held in many rooms but only in one room can a meeting be held.