

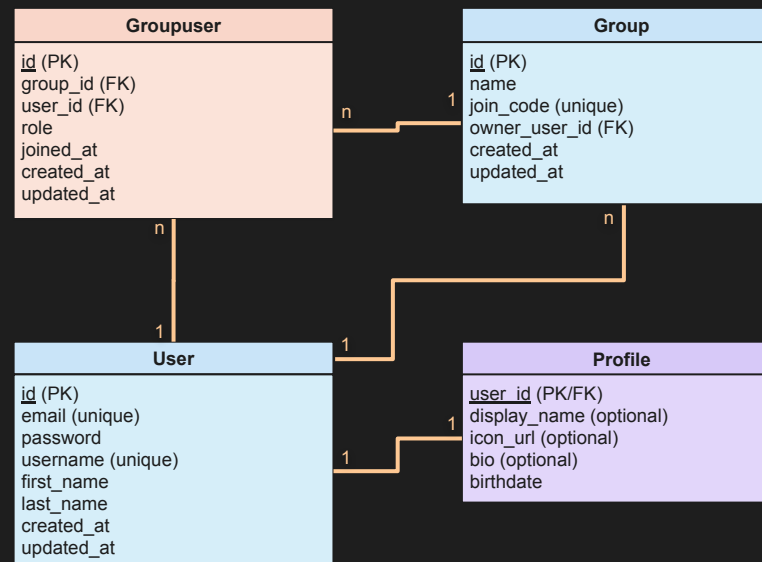
GroupConnect

ER-Diagram

Description

GroupConnect is a simple social platform for creating and managing friend groups. Users can register, set up their personal profile, and either create their own groups or join existing ones using invite codes. Group owners can manage their groups and add members, while users can be part of multiple groups at the same time. It's the foundation for building meaningful connections between friends through organized group management.

ER-Diagram



GroupConnect

User

Represents a registered user in the app

- / id (PK) → unique identifier of the user
- / email (unique) → login email for authentication
- / password → encrypted password hash
- / username (unique) → unique display name for the user
- / first_name → given name of the user
- / last_name → family name of the user
- / created_at → timestamp when user account was created
- / updated_at → timestamp of last profile update

Profile

Stores optional profile information for a user

- / user_id (PK/FK) → links profile to the user
- / display_name (optional) → alternative display name
- / icon_url (optional) → URL to profile picture
- / bio (optional) → short personal description
- / birthdate → date of birth of the user
- / created_at → timestamp when profile was created
- / updated_at → timestamp of last profile modification

Entity Attributes

Group

Represents a friend group for social interaction

- / id (PK) → unique group identifier
- / name → descriptive group name
- / join_code (unique) → invite code for joining the group
- / owner_user_id (FK) → user who owns and manages the group
- / created_at → timestamp when group was created
- / updated_at → timestamp of last group modification

Groupuser

Pivot table connecting users and groups (membership)

- / id (PK) → unique membership identifier
- / group_id (FK) → reference to the group
- / user_id (FK) → reference to the user
- / role → role of the user in the group (member/admin)
- / joined_at → timestamp when user joined the group
- / created_at → timestamp when membership was created
- / updated_at → timestamp of last membership update

GroupConnect

Entity Relations

User

Represents a registered user in the app

/ user 1 — 0..1 profile → a user may have an optional profile

/ user 1 — N group → a user can own multiple groups

/ user 1 — N groupuser → a user can join many groups

Profile

Stores optional profile information for a user

/ user 1 — 0..1 profile → a profile always belongs to one user

Group

Represents a friend group for social interaction

/ user 1 — N group → a user can own several groups

/ group 1 — N groupuser → a group can have many members

Groupuser

Pivot table connecting users and groups (membership)

/ user 1 — N groupuser → a user can have many group memberships

/ group 1 — N groupuser → a group can have many memberships