ER Diagram
for
Anonymous Chat Project Database

User

user_id (PK)
Username
Password
email (optional)

Creates

One to Many

Includes

One to One

Group

group_id (PK)
group_name
created_by (FK → User.user_id)
max_members
invite_link (unique)

Has — One to Many

GroupMember

group_member_id (PK)
group_id (FK → Group.group_id)
user_id (FK → User.user_id)

sent_by

One to Many

Has

One to Many

Contains — One to Many

Message

message_id (PK)
group_id (FK → Group.group_id)
sender_id (FK → User.user_id OR AnonymousParticipant.participant_id)
sender_type ("user" or "anon")
Content
timestamp

sent_by

One to Many

AnonymousParticipant

participant_id (PK)
group_id (FK → Group.group_id)
anon_name (e.g., Anon_1, Anon_2...)
joined_at
kicked_by_admin (Boolean)
left_voluntarily (Boolean)
blocked_rejoin (Boolean)