InsideOut
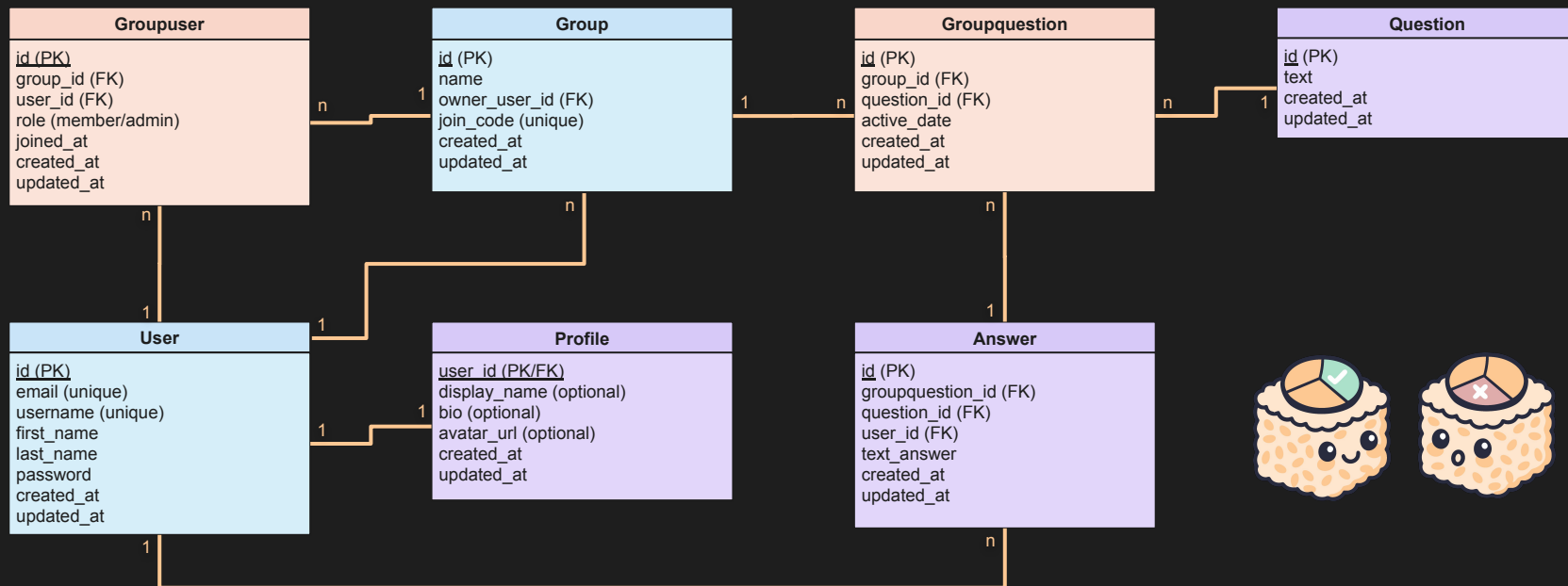### The Friends Voting Game

ER-Diagram

Description

InsideOut is a simplified daily question game designed for friend groups. You create a group with your friends and receive one interesting question each day. All group members can see the question and submit their answers in text form. Once you've answered, you can see what everyone else in your group wrote. It's a fun way to get to know your friends better and spark conversations through thought-provoking daily questions.

ER-Diagram

Groupuser
- id (PK)
- group_id (FK)
- user_id (FK)
- role (member/admin)
- joined_at
- created_at
- updated_at

Group
- id (PK)
- name
- owner_user_id (FK)
- join_code (unique)
- created_at
- updated_at

Groupquestion
- id (PK)
- group_id (FK)
- question_id (FK)
- active_date
- created_at
- updated_at

Question
- id (PK)
- text
- created_at
- updated_at

User
- id (PK)
- email (unique)
- username (unique)
- first_name
- last_name
- password
- created_at
- updated_at

Profile
- user_id (PK/FK)
- display_name (optional)
- bio (optional)
- avatar_url (optional)
- created_at
- updated_at

Answer
- id (PK)
- groupquestion_id (FK)
- question_id (FK)
- user_id (FK)
- text_answer
- created_at
- updated_at

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Entity Attributes

User
Represents a registered player 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
/ avatar_url (optional) → URL to profile picture
/ bio (optional) → short personal description
/ created_at → timestamp when profile was created
/ updated_at → timestamp of last profile modification

Group
Represents a friend group where questions are shared
/ 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 (member/admin)
/ joined_at → timestamp when user joined the group
/ created_at → timestamp when membership was created
/ updated_at → timestamp of last membership update

Question
Stores template questions for daily group activities
/ id (PK) → unique question identifier
/ text → the actual question content
/ created_at → timestamp when question was added
/ updated_at → timestamp of last question modification

Groupquestion
Links questions to groups with timing information
/ id (PK) → unique assignment identifier
/ group_id (FK) → reference to the target group
/ question_id (FK) → reference to the assigned question
/ active_date → date when question becomes active for the group
/ created_at → timestamp when question was assigned
/ updated_at → timestamp of last assignment modification

Answer
Stores user responses to group questions
/ id (PK) → unique answer identifier
/ groupquestion_id (FK) → reference to the specific group question
/ question_id (FK) → direct reference to the original question
/ user_id (FK) → reference to the user who answered
/ text_answer → the user's written response
/ created_at → timestamp when answer was submitted
/ updated_at → timestamp of last answer modification

Question
Stores template questions for daily group activities
/ question 1 — N groupquestion → a question can be assigned to many groups

Groupquestion
Links questions to groups with timing information
/ group 1 — N groupquestion → a group can have many assigned questions
/ question 1 — N groupquestion → a question can be used by many groups
/ groupquestion 1 — N answer → each group question can receive many answers

Answer
Stores user responses to group questions
/ user 1 — N answer → a user can submit many answers
/ groupquestion 1 — N answer → each group question gathers many answers
/ question 1 — N answer → a question can receive many answers across groups