

Girl Talk - Database

1. PostgreSQL

I think PostgreSQL is a good fit because the Girl Talk app involves lots of connected data like users, messages, and appointments. The district will need to track which student talked to which counselor and when, so a relational database helps us keep everything organized.

2. Main Tables

Users

Stores all people using the app: students, counselors, and admins.

- user_id (number, primary key)
- name (text)
- email (text)
- role (student, counselor, or admin)
- school (text)

Messages

Stores messages between students and counselors.

- message_id (number, primary key)
- sender_id (from Users)
- receiver_id (from Users)
- content (text)
- is_anonymous (yes/no)
- timestamp (date/time)

Appointments

Keeps track of scheduled meetings between students and counselors.

- appointment_id (number, primary key)
- student_id (from Users)
- counselor_id (from Users)
- date (date/time)
- status (pending, approved, declined)

Resources

Articles and tips counselors can share with students.

- resource_id (number, primary key)
- title (text)
- content (text)
- created_by (from Users)
- tags (list of words)

3. How the Tables are Used

- Students use the Users table to log in.
- Messages they send to counselors are saved in the Messages table.
- If they book a meeting, it's saved in Appointments.
- Counselors can share helpful links or tips, saved in Resources.

4. Diagram

Users



User_ID (Primary Key)
[Name]
[email]
[role]
[school]
[created_at]



Appointments



Messages



Resources



Reports



Appointment id (Primary Key)
message_id (PK)
sender_id (FK → Users)
receiver_id (FK → Users)
content
timestamp
is_anonymous Student id – Foreign key
Counselor id – FK from users

message_id (PK)
sender_id (FK → Users)
receiver_id (FK → Users)
content
timestamp

resource_id (PK)
title
content
created_by (FK → Users)
tags Foreign key
Counselor id – FK from users
Date
Status(pending, approved,

report_id (PK)
user_id (FK → Users)
type
timestamp
metadata – Foreign key
Counselor id – FK from users
Date
Status(pending, approved,
declined)
Notes- optional session

5. Example Usage Scenario

Lauren is feeling overwhelmed and wants to message a school counselor:

1. She logs in (info comes from the Users table).
2. She finds a counselor and sends a message (saved in the Messages table).
3. Later, she books an appointment (saved in Appointments).
4. The counselor shares a helpful article (saved in Resources).

6. Diagram Notes

- One user can send and receive many messages.
- One student can have many appointments with different counselors.
- One counselor can post many resources.
- Each report links to one user, but a user can have many reports.