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**Explanation of Table Usage**

1. **users table**:  
   Stores user details such as username, email, and password\_hash for authentication. It also contains user roles (e.g., 'member', 'admin') and avatar information.
2. **teams table**:  
   Represents a team within the platform. Each team has a name, a description, and timestamps for creation and updates.
3. **team\_members table**:  
   This is a many-to-many relationship table linking users to teams. It keeps track of the users that belong to each team, along with their role within the team (e.g., 'admin', 'member').
4. **tasks table**:  
   Stores tasks within the platform, including the task name, description, priority level, status, and due date. Each task is linked to a user (assigned\_to), a team (team\_id), and the user who created it (created\_by).
5. **meetings table**:  
   Stores meetings associated with teams, with details like the meeting title, agenda, and scheduled meeting time. Each meeting is linked to a team and the user who scheduled it.
6. **meeting\_transcriptions table**:  
   Stores the transcription of meetings, which includes the transcription text itself, action points, and sentiment scores generated by AI after the meeting.
7. **chat\_messages table**:  
   Stores messages exchanged within team chats. Each message is linked to the user who sent it and the team that the message belongs to.
8. **files table**:  
   Stores file information associated with tasks and meetings. Files could be attachments for tasks or meeting-related documents. This table also tracks the user who uploaded the file.
9. **task\_dependencies table**:  
   Stores relationships between tasks where one task depends on another. This helps manage complex workflows where tasks are interdependent.
10. **sentiment\_feedback table**:  
    Collects feedback related to sentiment analysis of team interactions, whether from chat or task-related discussions. This allows the AI to track team morale and identify any issues.
11. **task\_insights table**:  
    Stores insights generated by AI regarding tasks, such as potential bottlenecks, task predictions, and performance metrics based on the task data.

**How These Tables Work Together**

* **User & Team Management**: Users can belong to one or more teams (via team\_members). The users table holds personal data, while the teams table organizes users into groups for collaboration.
* **Task Management**: The tasks table allows for assigning and managing tasks within teams. Tasks can have dependencies on other tasks (via task\_dependencies), and each task's progress can be tracked and reported.
* **Meetings & Transcriptions**: Teams can schedule meetings (meetings), and the AI can generate transcriptions and summarize meeting action points in the meeting\_transcriptions table. This ensures important information from meetings is captured for follow-up.
* **Collaboration Tools**: The chat\_messages and files tables enable communication and file sharing within the teams, providing essential collaboration tools.
* **AI Insights**: AI-driven insights on tasks and team interactions can be stored in the task\_insights and sentiment\_feedback tables, helping managers and teams optimize workflows and improve morale.