Database Design

JMMPlatform

Users table

- **Description**: Stores information about fans and creators/administrators (they share the same role).
- **Fields**:
  - user_id (PK, INT, AUTO_INCREMENT) - Unique identifier.
  - username (VARCHAR(50), UNIQUE) - User's display name.
  - email (VARCHAR(100), UNIQUE) - User's email address.
  - password_hash (VARCHAR(255)) - Encrypted password.
  - tiktok_profile (VARCHAR(255)) - Linked TikTok profile URL.
  - role (ENUM: 'fan', 'creator') - User role.
  - created_at (DATETIME) - Account creation date.
  - updated_at (DATETIME) - Last update date.
- Data Points:
  - user_id: 1,
    - username: "Amelia",
    - role: "fan".
  - user_id: 2
    - username: "Michał"
    - role: "creator".

Competitions Table

- **Description**: Stores details about competitions organized by creators/administrators.
- **Fields**:
    - competition_id (PK, INT, AUTO_INCREMENT) - Unique identifier.
    - creator_id (FK to Users.user_id) - Creator organizing the competition.
    - title (VARCHAR(100)) - Competition title.
    - description (TEXT) - Competition details.
    - start_date (DATETIME) - Start date.
    - end_date (DATETIME) - End date.
    - reward (VARCHAR(255)) - Reward description.
    - created_at (DATETIME) - Creation timestamp.
- Data Points:
    - competition_id: 1
        - creator_id: 2
        - title: "Best Dance Challenge".

Submissions Table

- **Description**: Stores video submissions by fans for competitions.
- **Fields**:
    - submission_id (PK, INT, AUTO_INCREMENT) - Unique identifier.
    - competition_id (FK to Competitions.competition_id) - Linked competition.
    - fan_id (FK to Users.user_id) - Fan submitting the video.
    - video_url (VARCHAR(255)) - Link to the submitted video.
    - status (ENUM: 'pending', 'approved', 'rejected') - Submission status.
    - submission_date (DATETIME) - Date of submission.
- Data Points:
    - submission_id: 1
        - competition_id: 1
        - fan_id: 1
        - video_url: "https://tiktok.com/vid1"

Leaderboard Table

- **Description**: Tracks performance of submissions in competitions.
- **Fields**:
    - leaderboard_id (PK, INT, AUTO_INCREMENT) - Unique identifier.
    - competition_id (FK to Competitions.competition_id) - Linked competition.
    - submission_id (FK to Submissions.submission_id) - Linked submission.
    - likes (INT) - Number of likes.
    - shares (INT) - Number of shares.
    - views (INT) - Number of views.
    - rank (INT) - Current ranking.
- Data Points:
- leaderboard_id: 1
    - competition_id: 1
    - submission_id: 1
    - likes: 500.

Engagement Statistics Table

- Description: Stores aggregated fan engagement metrics for creators.
- Fields:
  - stat_id (PK, INT, AUTO_INCREMENT) - Unique identifier.
  - creator_id (FK to Users.user_id) - Linked creator.
  - fan_id (FK to Users.user_id) - Linked fan.
  - total_likes (INT) - Total likes contributed by the fan.
  - total_shares (INT) - Total shares contributed by the fan.
  - total_views (INT) - Total views contributed by the fan.
- Data Points:
  - Stat ID: 1
    - Creator ID: 2
    - Fan ID: 1
    - Total Likes: 1500
    - Total Shares: 300
    - Total Views: 25000

Categories Table

- Description: Stores information about movie categories.
- Fields:
  - category_id (PK, INT, AUTO_INCREMENT) - Unique identifier for the category.
  - name (VARCHAR(100), UNIQUE) - Category name (e.g., "Dance", "Comedy", "Challenge").
  - description (TEXT) - Description of the category.
  - created_at (DATETIME) - Timestamp for when the category was created.
- Data Points:
  - Category ID: 1
    - Name: Dance
    - Description: Videos featuring popular dance routines and challenges.
    - Created At: 2025-01-27 10:00:00
  - Category ID: 2
    - Name: Comedy
    - Description: Funny and humorous videos meant to entertain the audience.
    - Created At: 2025-01-27 10:05:00

Movies Table

- Description: Stores movies that can be used for TikTok submissions.
- Fields:
    - movie_id (PK, INT, AUTO_INCREMENT) - Unique identifier for the movie.
    - category_id (FK to Categories.category_id) - Linked category for the movie.
    - title (VARCHAR(100)) - Movie title.
    - url (VARCHAR(255)) - URL or path to the movie file.
    - duration (INT) - Duration of the movie in seconds.
    - description (TEXT) - Description of the movie content.
    - created_at (DATETIME) - Timestamp for when the movie was added.
- Data Points:
    - Movie ID: 1
        - Category ID: 1
        - Title: "Hip-Hop Dance Challenge"
        - URL: https://example.com/movies/?id=1
        - Duration: 30
        - Description: A short video demonstrating a hip-hop dance routine.
        - Created At: 2025-01-27 11:00:00

Inspiration Categories Table

- **Description**: Stores categories for TikTok inspirations.
- **Fields**:
  - inspiration_category_id (PK, INT, AUTO_INCREMENT) - Unique identifier for the category.
  - name (VARCHAR(100), UNIQUE) - Name of the category (e.g., "Music", "Motivational Quotes").
  - description (TEXT) - Brief description of the category.
  - created_at (DATETIME) - Timestamp for when the category was added.
- Data Points:
  - Category ID: 1
    - Name: "Music"
    - Description: A collection of trending TikTok-friendly music and soundtracks.
    - Created At: 2025-01-27 12:00:00
  - Category ID: 2
    - Name: "Motivational Quotes"
    - Description: Inspiring and motivational quotes for TikTok content creation.
    - Created At: 2025-01-27 12:05:00

Inspiration Table

- Description: Stores individual inspirations linked to categories.
- Fields:
    - o inspiration_id (PK, INT, AUTO_INCREMENT) - Unique identifier for the inspiration.
    - o inspiration_category_id (FK to Inspiration Categories.inspiration_category_id) - Linked inspiration category.
    - o title (VARCHAR(100)) - Title or brief name of the inspiration.
    - o content (TEXT) - Content of the inspiration (e.g., music links, quotes, TikTok links, guides).
    - o created_at (DATETIME) - Timestamp for when the inspiration was added.
- Data Points:
    - o Inspiration ID: 1
        - Inspiration Category ID: 1
        - Title: "Trending Sound: Dance Beats"
        - Content: "https://example.com/music/?id=1"
        - Created At: 2025-01-27 13:00:00
    - o Inspiration ID: 2
        - Inspiration Category ID: 2
        - Title: "Quote: 'The harder you work, the luckier you get.'"
        - Content: "The harder you work, the luckier you get."
        - Created At: 2025-01-27 13:05:00

Relationships

• **Users** has a one-to-many relationship with **Competitions** (Users.user_id → Competitions.creator_id).

• **Competitions** has a one-to-many relationship with **Submissions** (Competitions.competition_id → Submissions.competition_id).

• **Submissions** has a one-to-many relationship with **Leaderboard** (Submissions.submission_id → Leaderboard.submission_id).

• **Engagement Statistics** has a many-to-one relationship with both **Users** and **Competitions**.

• **Categories** have a one-to-many relationship with **Movies (**Categories.category_id → Movies.category_id)

• **Inspiration Categories** have a one-to-many relationship with **Inspirations** (Inspiration Categories.inspiration_category_id → Inspirations.inspiration_category_id)