

# Prisma Schema Updates Summary - Media Center & Subscription Management

## Overview

Updated the Prisma database schema to support comprehensive media center features with tiered access control, trial expiration tracking, and user engagement analytics.

**Date:** November 9, 2025  
**Status:**  Schema Updated & Prisma Client Generated

## 1. Subscription Tier Management

### Existing Fields in User Model

The User model already includes comprehensive subscription management:

subscriptionTier	SubscriptionTier	@default(FREE)
subscriptionStatus	SubscriptionStatus	@default(ACTIVE)
trialStartDate	DateTime?	
trialEndDate	DateTime?	
isTrialActive	Boolean	@default(true)
stripeCustomerId	String?	
stripeSubscriptionId	String?	

### Subscription Tier Enum

```
enum SubscriptionTier {
  TRIAL
  FREE
  PREMIUM
  PRO
}

enum SubscriptionStatus {
  ACTIVE
  CANCELED
  PAST_DUE
  UNPAID
  TRIALING
}
```

## 2. Media Content Models

### StreamingPlatform Model (NEW)

Comprehensive streaming platform management with tiered access control.

**Key Features:**

- Platform details (name, description, logo, website)
- Subscription cost and free access options
- Feature lists and content types
- Platform availability (Web, iOS, Android, Roku, etc.)
- Tier-based access control
- View/click tracking
- User favorites relationship

**Fields:**

```

model StreamingPlatform {
  id          String          @id @default(cuid())
  platformId  String          @unique
  name        String
  description  String?
  officialWebsite String?
  streamingUrl String?
  logoUrl     String?
  type        StreamingPlatformType @default(SUBSCRIPTION)
  subscriptionCost String?
  hasFreeAccess Boolean          @default(false)
  freeAccessDetails Json?
  features        Json?
  content         Json?
  platforms       Json?
  socialLinks     Json?
  isActive        Boolean          @default(true)
  tierAccess       SubscriptionTier @default(FREE)
  viewCount       Int              @default(0)
  clickCount      Int              @default(0)
  userFavorites   UserFavoriteStreamingPlatform[]
}

```

**New Enum:**

```

enum StreamingPlatformType {
  SUBSCRIPTION
  FREE
  FREEMIUM
  CABLE
  PAY_PER_VIEW
}

```

**TournamentOrganization Model (NEW)**

Track major pickleball organizations (PPA, MLP, APP, USA Pickleball, etc.).

**Key Features:**

- Organization details and branding
- Social media links
- User follow/unfollow functionality
- Engagement tracking

**Fields:**

```

model TournamentOrganization {
  id                String                @id @default(cuid())
  organizationId    String                @unique
  name              String
  fullName          String?
  description       String?
  logoUrl           String?
  websiteUrl        String?
  type              TournamentOrganizationType
  socialLinks       Json?
  headquarters      String?
  foundedYear       Int?
  isActive          Boolean              @default(true)
  viewCount         Int                  @default(0)
  clickCount        Int                  @default(0)
  userFollows       UserFollowedOrganization[]
}

```

#### New Enum:

```

enum TournamentOrganizationType {
  PPA_TOUR
  MLP
  APP_TOUR
  USA_PICKLEBALL
  INTERNATIONAL
  LOCAL
  COLLEGIATE
  JUNIOR
  SENIOR
  OTHER
}

```

### Enhanced Existing Models

The following models already existed and support media features:

- **PodcastShow** - Podcast series management
- **PodcastEpisode** - Individual podcast episodes
- **LiveStream** - Live streaming events
- **ExternalEvent** - Tournament and event tracking
- **NewsItem** - Pickleball news articles

## 3. Email Notification Tracking

### EmailNotification Model (EXISTING)

Comprehensive email tracking with delivery status, open rates, and error handling.

#### Enhanced EmailNotificationType Enum:

```
enum EmailNotificationType {
  VIDEO_ANALYSIS_COMPLETE
  WELCOME
  SUBSCRIPTION_RENEWAL
  ACHIEVEMENT_UNLOCKED
  MATCH_REMINDER
  TRAINING_REMINDER
  SYSTEM_UPDATE
  TRIAL_EXPIRATION
  TRIAL_WARNING_7_DAYS      // NEW
  TRIAL_WARNING_3_DAYS      // NEW
  TRIAL_WARNING_1_DAY       // NEW
  UPGRADE_REMINDER          // NEW
  EVENT_REMINDER            // NEW
  PODCAST_NEW_EPISODE       // NEW
  LIVE_STREAM_STARTING      // NEW
  CUSTOM
}
```

## TrialExpirationReminder Model (NEW)

Automated trial expiration reminder system.

### Key Features:

- Scheduled reminders (7-day, 3-day, 1-day warnings)
- Email delivery tracking
- Retry logic support
- Reminder status management

### Fields:

```
model TrialExpirationReminder {
  id          String          @id @default(cuid())
  userId      String
  reminderType TrialReminderType
  reminderTiming Int           // days before expiration
  status      ReminderStatus  @default(PENDING)
  scheduledFor DateTime
  sentAt      DateTime?
  emailSent    Boolean        @default(false)
  emailStatus  EmailStatus?
  error        String?
  metadata     Json?
  user         User           @relation("UserTrialReminders")
}
```

### New Enums:

```
enum TrialReminderType {
    TRIAL_STARTED
    TRIAL_7_DAYS_LEFT
    TRIAL_3_DAYS_LEFT
    TRIAL_1_DAY_LEFT
    TRIAL_EXPIRED
    UPGRADE_PROMPT
}

enum ReminderStatus {
    PENDING
    SENT
    FAILED
    CANCELLED
}
```

## 4. User Preferences for Media

### UserMediaPreferences Model (NEW)

Centralized user preferences for all media features.

#### Key Features:

- Event reminder settings (timing, enabled/disabled)
- Tournament and live stream notifications
- Podcast episode notifications
- Weekly media digest opt-in
- Content recommendations toggle
- Video quality preferences
- Autoplay settings

#### Fields:

```
model UserMediaPreferences {
    id                      String    @id @default(cuid())
    userId                 String    @unique
    eventReminderEnabled   Boolean    @default(true)
    eventReminderTiming    Int        @default(24) // hours before event
    tournamentReminderEnabled Boolean @default(true)
    liveStreamReminderEnabled Boolean @default(true)
    podcastNewEpisodeNotification Boolean @default(true)
    weeklyMediaDigestEnabled Boolean @default(false)
    favoritePodcasts       Json?      // Array of podcast IDs
    followedTournamentOrganizations Json? // Array of organization IDs
    favoriteStreamingPlatforms Json?   // Array of platform IDs
    upcomingEventNotifications Json?   // Customized per event type
    contentRecommendationsEnabled Boolean @default(true)
    autoplayEnabled         Boolean    @default(false)
    preferredVideoQuality   String    @default("auto")
    user                    User       @relation()
}
```

### UserFavoriteStreamingPlatform Model (NEW)

Track user's favorite streaming platforms.

```

model UserFavoriteStreamingPlatform {
  id          String          @id @default(cuid())
  userId      String
  platformId  String
  addedAt     DateTime        @default(now())
  user        User            @relation("UserFavoriteStreamingPlatforms")
  platform    StreamingPlatform @relation()
}

```

## UserFollowedOrganization Model (NEW)

Track tournament organizations users follow.

```

model UserFollowedOrganization {
  id          String          @id @default(cuid())
  userId      String
  organizationId String
  followedAt  DateTime        @default(now())
  user        User            @relation("UserFollowedOrganizations")
  organization TournamentOrganization @relation()
}

```

## Enhanced Existing Models

- **ContentBookmark** - Bookmark any content type
- **PodcastBookmark** - Bookmark specific podcast episodes
- **UserWatchHistory** - Track viewing history

## 5. Media Analytics

### MediaEngagementMetrics Model (NEW)

Comprehensive tracking of all user interactions with media content.

#### Tracked Engagement Types:

- VIEW - Content viewed
- CLICK - External link clicked
- PLAY - Media playback started
- PAUSE - Media paused
- COMPLETE - Media fully consumed
- BOOKMARK - Content bookmarked
- SHARE - Content shared
- FAVORITE - Content favorited
- FOLLOW/UNFOLLOW - Organization followed/unfollowed
- SUBSCRIBE - Platform subscribed
- VISIT\_WEBSITE - External website visited

#### Fields:

```

model MediaEngagementMetrics {
  id String @id @default(cuid())
  userId String?
  sessionId String?
  contentType MediaContentType
  contentId String // Generic reference
  contentTitle String?
  engagementType MediaEngagementType
  metadata Json? // Additional context
  timestamp DateTime @default(now())
}

```

### New Enums:

```

enum MediaContentType {
  STREAMING_PLATFORM
  TOURNAMENT_ORGANIZATION
  PODCAST
  LIVE_EVENT
  TOURNAMENT
  VIDEO
  TRAINING_CONTENT
  NEWS
}

enum MediaEngagementType {
  VIEW
  CLICK
  PLAY
  PAUSE
  COMPLETE
  BOOKMARK
  SHARE
  FAVORITE
  FOLLOW
  UNFOLLOW
  SUBSCRIBE
  VISIT_WEBSITE
}

```

### Existing Analytics Models

- **UserWatchHistory** - Watch time, completion tracking
  - **UserContentRecommendation** - AI-powered recommendations
  - **UserVideoProgress** - Video progress tracking
  - **UserPodcastProgress** - Podcast listening progress
-

## 6. User Model Updates

### New Relations Added to User Model

```
model User {
  // ... existing fields ...

  // NEW MEDIA CENTER RELATIONS
  favoriteStreamingPlatforms UserFavoriteStreamingPlatform[] @relation("UserFavoriteStreamingPlatforms")
  followedOrganizations      UserFollowedOrganization[] @relation("UserFollowedOrganizations")
  trialReminders              TrialExpirationReminder[] @relation("UserTrialReminders")
  mediaPreferences            UserMediaPreferences?
}
```

## Database Migration Guide

### Option 1: Development Reset (Recommended for Development)

```
cd /home/ubuntu/mindful_champion/nextjs_space
npx prisma migrate reset
npx prisma migrate dev --name media_center_subscription_management
```

### Option 2: Production Migration (Zero Downtime)

```
cd /home/ubuntu/mindful_champion/nextjs_space
npx prisma migrate deploy
```

## API Integration Tasks

### 1. Streaming Platform Management

- `[]` Create `/api/media/streaming-platforms` endpoints (GET, POST)
- `[]` Implement tier-based access control
- `[]` Add user favorite/unfavorite functionality
- `[]` Track engagement metrics

### 2. Tournament Organization Management

- `[]` Create `/api/media/organizations` endpoints (GET, POST)
- `[]` Implement follow/unfollow functionality
- `[]` Add organization details page

### 3. User Preferences

- `[]` Create `/api/users/media-preferences` endpoints
- `[]` Implement preference update logic
- `[]` Add notification scheduling system



## 4. Trial Management

- [ ] Create trial expiration reminder scheduler
- [ ] Implement email notification system
- [ ] Add upgrade flow

## 5. Analytics Dashboard

- [ ] Create admin analytics dashboard
- [ ] Add engagement metrics visualization
- [ ] Implement user behavior tracking

# UI Component Tasks

## 1. Media Center Pages

- [ ] `/media` - Main media hub
- [ ] `/media/streaming` - Streaming platforms
- [ ] `/media/podcasts` - Podcast directory
- [ ] `/media/tournaments` - Tournament calendar
- [ ] `/media/organizations` - Organization directory

## 2. User Settings

- [ ] `/settings/media-preferences` - Media notification settings
- [ ] `/settings/favorites` - Manage favorites

## 3. Trial Management UI

- [ ] Trial status banner
- [ ] Upgrade call-to-action
- [ ] Trial expiration countdown

# Seeding Data

## Streaming Platforms to Seed

Based on `/home/ubuntu/pickleball_media_research.json` :

- PickleballTV
- YouTube Channels (PPA Tour, Pickleball Channel, USA Pickleball, MLP, etc.)
- ESPN/ESPN+
- CBS Sports
- Fox Sports
- DIRECTV MyFree
- Philo

## Tournament Organizations to Seed

- PPA Tour
- Major League Pickleball (MLP)
- APP Tour

- USA Pickleball

## Podcasts to Seed

- PicklePod
  - Pickleball Studio Podcast
  - It Feels Right Pickleball Podcast
  - The McGuffin Show
  - Third Shot Podcast
- 

## Testing Checklist

### Schema Validation

- [x] Prisma format completed successfully
- [x] Prisma client generated successfully
- [x] No validation errors

### Next Steps

- [ ] Run database migration
  - [ ] Create seed data script
  - [ ] Test all relationships
  - [ ] Build API endpoints
  - [ ] Create UI components
  - [ ] Test trial reminder system
  - [ ] Implement engagement tracking
- 

## Summary Statistics

### New Models Added: 7

- StreamingPlatform
- TournamentOrganization
- UserMediaPreferences
- UserFavoriteStreamingPlatform
- UserFollowedOrganization
- MediaEngagementMetrics
- TrialExpirationReminder

### Enhanced Models: 2

- User (4 new relations)
- EmailNotificationType (7 new types)

### New Enums: 7

- StreamingPlatformType
- TournamentOrganizationType
- MediaContentType
- MediaEngagementType

- TrialReminderType
- ReminderStatus

**Total Database Tables:** 100+

**Total Enums:** 40+

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## Notes

1. **Backward Compatibility:** All changes are additive and don't break existing functionality.
2. **Performance:** Added strategic indexes on frequently queried fields.
3. **Scalability:** Generic contentId/contentType pattern allows tracking any content type.
4. **Privacy:** User engagement can be tracked anonymously (userId optional).
5. **Flexibility:** JSON fields allow storing platform-specific metadata without schema changes.

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## Support


For questions or issues with the schema updates, check:

- `/home/ubuntu/pickleball_media_research.json` - Source data structure
- `prisma/schema.prisma` - Complete schema definition
- Prisma documentation: <https://www.prisma.io/docs>

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**Schema Last Updated:** November 9, 2025

**Prisma Client Version:** 6.7.0

**Status:**  Ready for Migration