



Phantom Power - Data Models

Topic **phantomPower**

Tag **code** **project** **planning**

Links

Backlinks 🧑🏻 Phantom Power

Data Types / Models List

Core Models

- **User:** Represents an account; owner of profiles, uploads, comments, follows, etc.
 - **Profile:** Public-facing user identity with bio, links, featured audio, tags, and theme.
-

Media & Content

- **AudioFile:** Represents an uploaded music/audio file with metadata and ownership.
- **Image:** Stores references to uploaded image files, linked to other entities (e.g. Profile, Project).
- **Tag:** Genre, instrument, mood, or descriptor label that can be applied across entities.
- **Playlist:** Curated user-owned collections of AudioFiles.

- **Comment:** User comments on AudioFiles, Profiles, Projects, etc.
 - **Like:** Tracks user “likes” for content such as AudioFiles, Comments, Playlists.
-

Audio Analysis & Discovery

- **AudioFileReport:** Container for all analysis related to a given AudioFile (both AI and user-contributed).
 - **AIAudioFileAnalysisResult:** A single AI-generated analysis snapshot (e.g. tempo, key, genre).
 - **UserAudioFileAnalysis:** A user’s own subjective analysis (e.g. mood, genre, tags, notes).
 - **AudioFileMetricType:** Defines a specific analysis metric category (e.g. “Dynamics Quotient”, “MAD Divergence”).
 - **AudioFileMetricValue:** Stores the result of a metric analysis applied to a specific AudioFileReport.
-

Social & Interaction

- **UserFollow:** Follower/following relationships between users.
 - **Message:** Private/direct messages between two users.
 - **ChatRoom:** Group communication spaces or community channels.
 - **ChatMessage:** Messages posted within a chatroom.
 - **Notification:** Alerts for events like follows, likes, comments, etc.
 - **Project:** Collaborative creative endeavors or gig postings.
 - **Booking:** Scheduling agreements or confirmed collaborations tied to Projects.
 - **Match:** Result of AI-based user matching from profile + audio analysis.
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Support & System

- **Role:** Defines a named user role (admin, moderator, standard user, etc.).
 - **Permission:** Defines specific actions or capabilities (e.g. “upload_audio”, “ban_user”).
 - **UserRole:** Links Users to one or more Roles.
 - **RolePermission:** Defines which permissions are granted to each Role.
 - **Session:** Tracks authenticated user sessions (JWT, device metadata, etc.).
 - **AuditLog:** Logs significant user/system activity (admin changes, content edits).
 - **Report:** User-submitted reports for abuse, bugs, or content violations.
-

Junction / Relationship Tables

- **PlaylistAudioFile**: Links AudioFiles to Playlists (many-to-many).
- **AudioFileTag**: Links Tags to AudioFiles (many-to-many).
- **UserProject**: Links Users to Projects with roles or statuses (e.g. owner, contributor).
- **AudioFileMetricTypeStatusLog**: History log of status changes for metric types (development, suspended, etc.).

JSON Schemas & Examples

Core Models

User

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "User",
  "type": "object",
  "required": ["id", "email", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "email": {"type": "string", "format": "email"},
    "passwordHash": {"type": "string"},
    "role": {"type": "string", "enum": ["user", "admin"], "default": "user"},
    "isVerified": {"type": "boolean", "default": false},
    "createdAt": {"type": "string", "format": "date-time"},
    "updatedAt": {"type": ["string", "null"], "format": "date-time"}
  }
}
```

Sample

Plain Text ▾

```
{
  "id": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "email": "Jane.Doe@example.com",
  "passwordHash": "$2a$10$abcdefg1234567890hashed",
  "role": "user",
  "isVerified": true,
```

```
"createdAt": "2025-07-19T12:00:00Z",
"updatedAt": "2025-07-19T12:00:00Z"
}
```

Profile

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Profile",
  "type": "object",
  "required": ["id", "userId", "displayName", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "userId": {"type": "string", "format": "tsid"},
    "displayName": {"type": "string"},
    "bio": {"type": "string"},
    "location": {"type": "string"},
    "avatarUrl": {"type": "string", "format": "uri"},
    "bannerUrl": {"type": "string", "format": "uri"},
    "theme": {"type": "string"},
    "socialLinks": {
      "type": "object",
      "properties": {
        "soundcloud": {"type": "string", "format": "uri"},
        "instagram": {"type": "string", "format": "uri"},
        "twitter": {"type": "string", "format": "uri"}
      }
    },
    "featuredAudioId": {"type": "string", "format": "tsid"},
    "tags": {"type": "array", "items": {"type": "string", "format": "tsid"}},
    "createdAt": {"type": "string", "format": "date-time"},
    "updatedAt": {"type": ["string", "null"], "format": "date-time"}
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HYN8ZMEW2DTPP7YYPXFPZ27R",
```

```
"userId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
"displayName": "Jane D",
"bio": "Producer. Vocalist. Gearhead. Let's build something weird.",
"location": "Brooklyn, NY",
"avatarUrl": "https://.../avatars/janedoe.jpg",
"bannerUrl": "https://.../banners/janedoe-banner.jpg",
"theme": "retro-dark",
"socialLinks": {
  "soundcloud": "https://soundcloud.com/janedoe",
  "instagram": "https://instagram.com/janedoe"
},
"featuredAudioId": "01HYN91QZAYVNNRH53SJ1KMBCY",
"tags": ["01HYN9TAG1ABCDEF1234567890"],
"createdAt": "2025-07-19T12:10:00Z",
"updatedAt": { "type": ["string", "null"], "format": "date-time" }
}
```

AudioFile

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "AudioFile",
  "type": "object",
  "required": ["id", "userId", "title", "fileUrl", "createdAt"],
  "properties": {
    "id": { "type": "string", "format": "tsid" },
    "userId": { "type": "string", "format": "tsid" },
    "title": { "type": "string" },
    "description": { "type": "string" },
    "fileUrl": { "type": "string", "format": "uri" },
    "duration": { "type": "number" },
    "waveformDataUrl": { "type": "string", "format": "uri" },
    "visibility": { "type": "string", "enum": ["public", "private",
"unlisted", "draft"], "default": "public" },
    "createdAt": { "type": "string", "format": "date-time" },
    "updatedAt": { "type": ["string", "null"], "format": "date-time" }
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HYN91QZAYVNNRH53SJ1KMBCY",
  "userId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "title": "Cosmic Jam #3",
  "description": "Weird ambient mod synth groove",
  "fileUrl": "https://phantom-
power.app/cdn/audio/01HYN91QZAYVNNRH53SJ1KMBCY.mp3",
  "duration": 212.4,
  "waveformDataUrl": "https://phantom-
power.app/cdn/audio/01HYN91QZAYVNNRH53SJ1KMBCY.json",
  "visibility": "public",
  "createdAt": "2025-07-19T13:00:00Z",
  "updatedAt": "2025-07-19T13:00:00Z"
}
```

Tag

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Tag",
  "type": "object",
  "required": ["id", "name", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "name": {"type": "string"},
    "createdAt": {"type": "string", "format": "date-time"},
    "updatedAt": {"type": ["string", "null"], "format": "date-time"}
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HYN9TAG1ABCDEF1234567890",
  "name": "ambient",
  "createdAt": "2025-07-19T11:00:00Z",
  "updatedAt": "2025-07-19T11:00:00Z"
}
```

```
}
```

AudioFileTag (Junction Table)

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "AudioFileTag",
  "type": "object",
  "required": ["audioFileId", "tagId", "createdAt"],
  "properties": {
    "audioFileId": { "type": "string", "format": "tsid" },
    "tagId": { "type": "string", "format": "tsid" },
    "createdAt": { "type": "string", "format": "date-time" }
  },
  "additionalProperties": false
}
```

Sample

JSON ▾

```
{
  "audioFileId": "01HYN91QZAYVNNRH53SJ1KMBCY",
  "tagId": "01HYN9TAG1ABCDEF1234567890",
  "createdAt": "2025-07-19T13:05:00Z"
}
```

UserProject (Junction Table)

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "UserProject",
  "type": "object",
  "required": ["userId", "projectId", "role", "createdAt"],
  "properties": {
```

```
"userId":{"type":"string","format":"tsid"},
"projectId":{"type":"string","format":"tsid"},
"role":{"type":"string"},
"createdAt":{"type":"string","format":"date-time"}
},
"additionalProperties":false
}
```

Sample

JSON ▾

```
{
  "userId":"01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "projectId":"01HYNPRJ01ABCDE1234567890",
  "role":"producer",
  "createdAt":"2025-07-19T16:15:00Z"
}
```

UserFollow

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "UserFollow",
  "type": "object",
  "required": ["followerId", "followeeId", "createdAt"],
  "properties": {
    "followerId": { "type": "string", "format": "tsid" },
    "followeeId": { "type": "string", "format": "tsid" },
    "createdAt": { "type": "string", "format": "date-time" }
  },
  "additionalProperties": false
}
```

Sample

JSON ▾

```
{
  "followerId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
```



```
"followeeId": "01HYN8XYZ9QRS1234567890",
"createdAt": "2025-07-19T14:15:00Z"
}
```

Audio File Analysis

AudioFileReport

Represents a complete “analysis snapshot” of an audio file, referencing both AI-generated insights and user-generated analysis.

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "AudioFileReport",
  "type": "object",
  "required": ["id", "audioFileId", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "audioFileId": {"type": "string", "format": "tsid"},
    "aiAnalysisIds": {"type": "array", "items":
{"type": "string", "format": "tsid"}},
    "userAnalysisIds": {"type": "array", "items":
{"type": "string", "format": "tsid"}},
    "metricValueIds": {"type": "array", "items":
{"type": "string", "format": "tsid"}},
    "notes": {"type": "string"},
    "createdAt": {"type": "string", "format": "date-time"},
    "updatedAt": {"type": ["string", "null"], "format": "date-time"}
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HYRPT01ABCDE1234567890",
  "audioFileId": "01HYN91QZAYVNNRH53SJ1KMBCY",
  "aiAnalysisIds": ["01HRSTAIRES1ABC1234567890"],
  "userAnalysisIds": ["01HRSTUSRAN1ABC1234567890"],
}
```

```
"metricValueIds":["01HRSTMVAL1ABC1234567890"],
"notes":"Initial analysis pack",
"createdAt":"2025-07-19T18:00:00Z",
"updatedAt":"2025-07-19T18:00:00Z"
}
```

AIAudioFileAnalysisResult

Schema

JSON ▾

```
{
  "$schema":"http://json-schema.org/draft-07/schema#",
  "title":"AIAudioFileAnalysisResult",
  "type":"object",
  "required":["id","audioFileId","analyzedAt","modelVersion"],
  "properties":{
    "id":{"type":"string","format":"tsid"},
    "audioFileId":{"type":"string","format":"tsid"},
    "tempo":{"type":"number"},
    "key":{"type":"string"},
    "genre":{"type":"string"},
    "confidence":{"type":"number","minimum":0,"maximum":1},
    "metadata":{"type":"object"},
    "modelVersion":{"type":"string"},
    "analyzedAt":{"type":"string","format":"date-time"}
  },
  "additionalProperties":false
}
```

Sample

JSON ▾

```
{
  "id":"01HRSTAIRES1ABC1234567890",
  "audioFileId":"01HYN91QZAYVNNRH53SJ1KMBCY",
  "tempo":120.5,
  "key":"C#m",
  "genre":"ambient",
  "confidence":0.95,
  "metadata":{"timbre":0.72,"rhythmComplexity":0.45},
  "modelVersion":"librosa-0.9.2-v1",
}
```

```
"analyzedAt": "2025-07-19T17:50:00Z"
}
```

UserAudioFileAnalysis

Collects data entered by the owner and other user's about music in associated with each AudioFile, referenced in its AudioFileReport

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "UserAudioFileAnalysis",
  "type": "object",
  "required": ["id", "userId", "audioFileId", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "userId": {"type": "string", "format": "tsid"},
    "audioFileId": {"type": "string", "format": "tsid"},
    "description": {"type": "string"},
    "mood": {"type": "string"},
    "genre": {"type": "string"},
    "instruments": {"type": "array", "items": {"type": "string"}},
    "tags": {"type": "array", "items": {"type": "string", "format": "tsid"}},
    "createdAt": {"type": "string", "format": "date-time"},
    "updatedAt": {"type": ["string", "null"], "format": "date-time"}
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HRSTUSRAN1ABC1234567890",
  "userId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "audioFileId": "01HYN91QZAYVNNRH53SJ1KMBCY",
  "description": "Warped field recording with ambient drones.",
  "mood": "eerie",
  "genre": "experimental",
  "instruments": ["field rec", "synth", "delay"],
  "tags": ["01HYN9TAG1EXPERIMENTAL"],
}
```

```
"createdAt": "2025-07-19T17:55:00Z",
"updatedAt": "2025-07-19T17:55:00Z"
}
```

AudioFileMetricType

Defines each metric category used in advanced analysis.

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "AudioFileMetricType",
  "type": "object",
  "required": ["id", "name", "status", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "name": {"type": "string"},
    "description": {"type": "string"},
    "importance": {"type": "number", "minimum": 0, "maximum": 1},
    "status": {"type": "string", "enum":
["active", "suspended", "defunct", "development"]},
    "createdAt": {"type": "string", "format": "date-time"},
    "updatedAt": {"type": ["string", "null"], "format": "date-time"}
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HRSTMTRT01ABC1234567890",
  "name": "Dynamics Quotient",
  "description": "Measures variation in loudness over time.",
  "importance": 0.8,
  "status": "active",
  "createdAt": "2025-07-19T18:10:00Z",
  "updatedAt": "2025-07-19T18:10:00Z"
}
```

AudioFileMetricValue

Stores actual metric values linked to a specific AudioFileReport.

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "AudioFileMetricValue",
  "required": ["id", "reportId", "metricTypeId", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "reportId": {"type": "string", "format": "tsid"},
    "metricTypeId": {"type": "string", "format": "tsid"},
    "value": {"type": ["number", "string", "object"]},
    "additionalInfo": {"type": "object"},
    "createdAt": {"type": "string", "format": "date-time"}
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HRSTMVAL1ABC1234567890",
  "reportId": "01HYRPT01ABCDE1234567890",
  "metricTypeId": "01HRSTMTRT01ABC1234567890",
  "value": 0.67,
  "additionalInfo": {"distributionMean": 0.5, "stdDev": 0.15},
  "createdAt": "2025-07-19T18:15:00Z"
}
```

AudioFileMetricTypeStatusLog

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "AudioFileMetricTypeStatusLog",

```

```
"type": "object",
"required": ["id", "metricTypeId", "status", "changedByUserId",
"changedAt"],
"properties": {
  "id": { "type": "string", "format": "tsid" },
  "metricTypeId": { "type": "string", "format": "tsid" },
  "status": { "type": "string", "enum": ["active", "suspended",
"defunct", "development"] },
  "changedByUserId": { "type": "string", "format": "tsid" },
  "notes": { "type": "string" },
  "changedAt": { "type": "string", "format": "date-time" }
}
}
```

Sample

JSON ▾

```
{
  "id": "01HRSTMTLOG1ABC1234567890",
  "metricTypeId": "01HRSTMTRT01ABC1234567890",
  "status": "suspended",
  "changedByUserId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "notes": "Temporarily disabled while we recalibrate model outputs",
  "changedAt": "2025-07-20T10:15:00Z"
}
```

Media & Content

Playlist

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Playlist",
  "type": "object",
  "required": ["id", "ownerId", "name", "createdAt"],
  "properties": {
    "id": { "type": "string", "format": "tsid" },
    "ownerId": { "type": "string", "format": "tsid" },
    "name": { "type": "string" },

```

```
"description": {"type": "string"},
"isPublic": {"type": "boolean", "default": true},
"createdAt": {"type": "string", "format": "date-time"},
"updatedAt": {"type": ["string", "null"], "format": "date-time"}
},
"additionalProperties": false
}
```

Sample

JSON ▾

```
{
  "id": "01HYNPPL01ABCDE1234567890",
  "ownerId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "name": "Chill Vibes",
  "description": "Late night ambient tracks",
  "isPublic": true,
  "createdAt": "2025-07-19T16:05:00Z",
  "updatedAt": "2025-07-19T16:05:00Z"
}
```

PlaylistAudioFile

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "PlaylistAudioFile",
  "type": "object",
  "required": ["playlistId", "audioFileId", "createdAt"],
  "properties": {
    "playlistId": {"type": "string", "format": "tsid"},
    "audioFileId": {"type": "string", "format": "tsid"},
    "order": {"type": "integer"},
    "createdAt": {"type": "string", "format": "date-time"}
  },
  "additionalProperties": false
}
```

Sample

JSON ▾

```
{
  "playlistId": "01HYNPPL01ABCDE1234567890",
  "audioFileId": "01HYN91QZAYVNNRH53SJ1KMBCY",
  "order": 1,
  "createdAt": "2025-07-19T16:10:00Z"
}
```

Image

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Image",
  "type": "object",
  "required": ["id", "uploaderId", "url", "usageType", "createdAt"],
  "properties": {
    "id": { "type": "string", "format": "tsid" },
    "uploaderId": { "type": "string", "format": "tsid" },
    "url": { "type": "string", "format": "uri" },
    "usageType": { "type": "string", "enum": ["avatar", "banner", "project", "audio", "other"] },
    "linkedEntityId": { "type": ["string", "null"], "default": null },
    "linkedEntityType": { "type": ["string", "null"], "enum": ["Profile", "Project", "AudioFile", null], "default": null },
    "createdAt": { "type": "string", "format": "date-time" }
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HYIMG001ABCDE1234567890",
  "uploaderId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "url": "https://phantom-power.app/cdn/avatars/janedoe.jpg",
  "usageType": "avatar",
}
```



```
"linkedEntityId": "01HYN8ZMEW2DTPP7YYPXFPZ27R",
"createdAt": "2025-07-19T17:00:00Z"
}
```

Social & Interaction

Comment

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Comment",
  "type": "object",
  "required":
  ["id", "authorId", "targetType", "targetId", "content", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "authorId": {"type": "string", "format": "tsid"},
    "targetType": {"type": "string", "enum":
  ["AudioFile", "Profile", "Playlist", "Project"]},
    "targetId": {"type": "string", "format": "tsid"},
    "content": {"type": "string"},
    "createdAt": {"type": "string", "format": "date-time"},
    "updatedAt": {"type": ["string", "null"], "format": "date-time"}
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HYN8ZMEW2DTPP7YYPXFPZ27R",
  "authorId": "01HYN8ZMEW2DTPP7YYPXFPZ27R",
  "targetType": "AudioFile",
  "targetId": "01HYN8ZMEW2DTPP7YYPXFPZ27R",
  "content": "This is fire—great spacey vibe!",
  "createdAt": "2025-07-19T14:05:00Z",
  "updatedAt": "2025-07-19T14:05:00Z"
}
```

```
}
```

Like

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Like",
  "type": "object",
  "required": ["userId", "targetType", "targetId", "createdAt"],
  "properties": {
    "userId": {"type": "string", "format": "tsid"},
    "targetType": {"type": "string", "enum":
["AudioFile", "Comment", "Playlist", "Project"]},
    "targetId": {"type": "string", "format": "tsid"},
    "createdAt": {"type": "string", "format": "date-time"}
  }
}
```

Sample

JSON ▾

```
{
  "userId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "targetType": "AudioFile",
  "targetId": "01HYN91QZAYVNNRH53SJ1KMBCY",
  "createdAt": "2025-07-19T14:06:00Z"
}
```

Message

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Message",
  "type": "object",
```

```
"required":["id","senderId","receiverId","content","sentAt"],
"properties":{"
  "id":{"type":"string","format":"tsid"},
  "senderId":{"type":"string","format":"tsid"},
  "receiverId":{"type":"string","format":"tsid"},
  "content":{"type":"string"},
  "sentAt":{"type":"string","format":"date-time"},
  "readAt":{"type":["string","null"],"format":"date-time"},
  "updatedAt":{"type":["string","null"],"format":"date-time"}
}
}
```

Sample

JSON ▾

```
{
  "id":"01HYNMSG1ABCDE1234567890",
  "senderId":"01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "receiverId":"01HYN8XYZ9QRS1234567890",
  "content":"Yo, heard your ambient track - love it!",
  "sentAt":"2025-07-19T14:10:00Z",
  "readAt":null,
  "updatedAt":null
}
```

ChatRoom

Schema

JSON ▾

```
{
  "$schema":"http://json-schema.org/draft-07/schema#",
  "title":"ChatRoom",
  "type":"object",
  "required":["id","name","createdAt"],
  "properties":{"
    "id":{"type":"string","format":"tsid"},
    "name":{"type":"string"},
    "memberIds":{"type":"array","items":
{"type":"string","format":"tsid"}},
    "createdAt":{"type":"string","format":"date-time"},
    "updatedAt":{"type":["string","null"],"format":"date-time"}
  }
}
```

```
}
```

Sample

JSON ▾

```
{
  "id": "01HYNCHAT1ZZZ1234567890",
  "name": "Ambient Producers Collective",
  "memberIds": ["01HYN8FXZ2W6X8K6YTNPEKXYM7", "01HYN8XYZ9QRS1234567890"],
  "createdAt": "2025-07-19T14:20:00Z",
  "updatedAt": "2025-07-19T14:20:00Z"
}
```

ChatMessage

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "ChatMessage",
  "type": "object",
  "required": ["id", "chatRoomId", "senderId", "type", "content",
    "sentAt"],
  "properties": {
    "id": { "type": "string", "format": "tsid" },
    "chatRoomId": { "type": "string", "format": "tsid" },
    "senderId": { "type": "string", "format": "tsid" },
    "type": { "type": "string", "enum": ["text", "system", "image",
      "file", "audio"] },
    "content": { "type": "string" },
    "replyToId": { "type": ["string", "null"], "format": "tsid" },
    "seenBy": { "type": "array", "items": { "type": "string", "format":
      "tsid" } },
    "sentAt": { "type": "string", "format": "date-time" },
    "updatedAt": { "type": ["string", "null"], "format": "date-time" }
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HYCHATMSGABCDE1234567890",
  "chatRoomId": "01HYNCHAT1ZZZ1234567890",
  "senderId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "type": "text",
  "content": "Yo welcome to the room!",
  "replyToId": null,
  "seenBy": ["01HYN8XYZ9QRS1234567890"],
  "sentAt": "2025-07-19T17:35:00Z",
  "updatedAt": null
}
```

Notification

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Notification",
  "type": "object",
  "required": ["id", "userId", "type", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "userId": {"type": "string", "format": "tsid"},
    "type": {"type": "string", "enum": [
      "NewLike", "NewComment", "NewFollow", "NewMessage", "NewMatch"
    ]},
    "payload": {"type": "object"},
    "isRead": {"type": "boolean", "default": false},
    "createdAt": {"type": "string", "format": "date-time"},
    "readAt": {"type": ["string", "null"], "format": "date-time"}
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HYNNOTF1ABCDE1234567890",
  "userId": "01HYN8XYZ9QRS1234567890",
```

```
    "type": "NewLike",
    "payload":
  {
    "targetType": "AudioFile", "targetId": "01HYN91QZAYVNNRH53SJ1KMBCY",
    "isRead": false,
    "createdAt": "2025-07-19T14:25:00Z",
    "readAt": null
  }
}
```

Match

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Match",
  "type": "object",
  "required": ["id", "userA", "userB", "score", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "userA": {"type": "string", "format": "tsid"},
    "userB": {"type": "string", "format": "tsid"},
    "score": {"type": "number", "minimum": 0, "maximum": 1},
    "matchedAt": {"type": "string", "format": "date-time"},
    "createdAt": {"type": "string", "format": "date-time"},
    "updatedAt": {"type": ["string", "null"], "format": "date-time"}
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HYNMTCH1ABCDE1234567890",
  "userA": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "userB": "01HYN8XYZ9QRS1234567890",
  "score": 0.82,
  "matchedAt": "2025-07-19T14:30:00Z",
  "createdAt": "2025-07-19T14:30:00Z",
  "updatedAt": null
}
```

Booking

Used to record collaboration commitments or session reservations between users.

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Booking",
  "type": "object",
  "required": ["id", "projectId", "userId", "status", "createdAt"],
  "properties": {
    "id": { "type": "string", "format": "tsid" },
    "projectId": { "type": "string", "format": "tsid" },
    "userId": { "type": "string", "format": "tsid" },
    "role": { "type": "string" },
    "status": { "type": "string", "enum": ["requested", "confirmed",
    "cancelled", "completed"] },
    "startTime": { "type": "string", "format": "date-time" },
    "endTime": { "type": "string", "format": "date-time" },
    "createdAt": { "type": "string", "format": "date-time" },
    "updatedAt": { "type": ["string", "null"], "format": "date-time" }
  }
}
```

Sample

JSON ▾

```
{
  "id": "01HYB00K01ABCDE1234567890",
  "projectId": "01HYNPRJ01ABCDE1234567890",
  "userId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "role": "drummer",
  "status": "confirmed",
  "startTime": "2025-07-21T18:00:00Z",
  "endTime": "2025-07-21T20:00:00Z",
  "createdAt": "2025-07-19T17:20:00Z",
  "updatedAt": "2025-07-19T17:20:00Z"
}
```

Support & System

Role

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Role",
  "type": "object",
  "required": ["id", "name", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "name": {"type": "string"},
    "description": {"type": "string"},
    "createdAt": {"type": "string", "format": "date-time"},
    "updatedAt": {"type": "string", "format": "date-time"}
  },
  "additionalProperties": false
}
```

Sample

JSON ▾

```
{
  "id": "01HYNRL01ABCDE1234567890",
  "name": "moderator",
  "description": "Can moderate comments and manage flagged content",
  "createdAt": "2025-07-19T15:00:00Z",
  "updatedAt": "2025-07-19T15:00:00Z"
}
```

Permission

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Permission",
  "type": "object",
```



```
"required":["id","action","resource","createdAt"],
"properties":{"
  "id":{"type":"string","format":"tsid"},
  "action":{"type":"string"},
  "resource":{"type":"string"},
  "description":{"type":"string"},
  "createdAt":{"type":"string","format":"date-time"},
"updatedAt": {"type":["string","null"],"format":"date-time"}
},
"additionalProperties":false
}
```

Sample

JSON ▾

```
{
  "id":"01HYNPER01ABCDE1234567890",
  "action":"delete",
  "resource":"Comment",
  "description":"Allows deleting any comment",
  "createdAt":"2025-07-19T15:05:00Z",
  "updatedAt":"2025-07-19T15:05:00Z"
}
```

RolePermission

Schema

JSON ▾

```
{
  "$schema":"http://json-schema.org/draft-07/schema#",
  "title":"RolePermission",
  "type":"object",
  "required":["roleId","permissionId","createdAt"],
  "properties":{"
    "roleId":{"type":"string","format":"tsid"},
    "permissionId":{"type":"string","format":"tsid"},
    "createdAt":{"type":"string","format":"date-time"}
  },
  "additionalProperties":false
}
```

Sample

JSON ▾

```
{
  "roleId": "01HYNRL01ABCDE1234567890",
  "permissionId": "01HYNPER01ABCDE1234567890",
  "createdAt": "2025-07-19T15:10:00Z"
}
```

UserRole

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "UserRole",
  "type": "object",
  "required": ["userId", "roleId", "createdAt"],
  "properties": {
    "userId": {"type": "string", "format": "tsid"},
    "roleId": {"type": "string", "format": "tsid"},
    "createdAt": {"type": "string", "format": "date-time"}
  },
  "additionalProperties": false
}
```

Sample

JSON ▾

```
{
  "userId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "roleId": "01HYNRL01ABCDE1234567890",
  "createdAt": "2025-07-19T15:15:00Z"
}
```

Report

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Report",
  "type": "object",
  "required":
  ["id", "reporterId", "targetType", "targetId", "reason", "createdAt"],
  "properties": {
    "id": { "type": "string", "format": "tsid" },
    "reporterId": { "type": "string", "format": "tsid" },
    "targetType": { "type": "string", "enum":
  ["AudioFile", "Comment", "Profile", "Project"] },
    "targetId": { "type": "string", "format": "tsid" },
    "reason": { "type": "string" },
    "status": { "type": "string", "enum":
  ["open", "reviewed", "closed"], "default": "open" },
    "createdAt": { "type": "string", "format": "date-time" },
    "updatedAt": { "type": ["string", "null"], "format": "date-time" }
  },
  "additionalProperties": false
}
```

Sample

JSON ▾

```
{
  "id": "01HYNREP01ABCDE1234567890",
  "reporterId": "01HYN8XYZ9QRS1234567890",
  "targetType": "Comment",
  "targetId": "01HYNCMMT1XYZ1234567890",
  "reason": "Contains offensive language",
  "status": "open",
  "createdAt": "2025-07-19T15:20:00Z",
  "updatedAt": "2025-07-19T15:20:00Z"
}
```

Session

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Session",
  "type": "object",
  "required": ["id", "userId", "createdAt", "lastActiveAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "userId": {"type": "string", "format": "tsid"},
    "ipAddress": {"type": "string", "format": "ipv4"},
    "userAgent": {"type": "string"},
    "createdAt": {"type": "string", "format": "date-time"},
    "lastActiveAt": {"type": "string", "format": "date-time"}
  },
  "additionalProperties": false
}
```

Sample

JSON ▾

```
{
  "id": "01HYNSESS01ABCDE1234567890",
  "userId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "ipAddress": "203.0.113.42",
  "userAgent": "Mozilla/5.0",
  "createdAt": "2025-07-19T15:25:00Z",
  "lastActiveAt": "2025-07-19T15:55:00Z"
}
```

AuditLog

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "AuditLog",
  "type": "object",
  "required": ["id", "action", "performedBy", "performedAt", "details"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "action": {"type": "string"},
  }
}
```

```
    "performedBy": {"type": "string", "format": "tsid"},
    "performedAt": {"type": "string", "format": "date-time"},
    "details": {"type": "object"}
  },
  "additionalProperties": false
}
```

Sample

JSON ▾

```
{
  "id": "01HYNALOG01ABCDE1234567890",
  "action": "UserLogin",
  "performedBy": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "performedAt": "2025-07-19T15:59:00Z",
  "details": {"ipAddress": "203.0.113.42", "userAgent": "Mozilla/5.0"}
}
```

Relationship / Junction Tables

UserFollow

(already defined earlier) TODO

UserProject

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "UserProject",
  "type": "object",
  "required": ["userId", "projectId", "role", "createdAt"],
  "properties": {
    "userId": {"type": "string", "format": "tsid"},
    "projectId": {"type": "string", "format": "tsid"},
    "role": {"type": "string"},
    "createdAt": {"type": "string", "format": "date-time"}
  },
  "additionalProperties": false
}
```

```
}
```

Sample

JSON ▾

```
{
  "userId": "01HYN8FXZ2W6X8K6YTNPEKXYM7",
  "projectId": "01HYNPRJ01ABCDE1234567890",
  "role": "producer",
  "createdAt": "2025-07-19T16:15:00Z"
}
```

Project

Schema

JSON ▾

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "title": "Project",
  "type": "object",
  "required": ["id", "ownerId", "title", "createdAt"],
  "properties": {
    "id": {"type": "string", "format": "tsid"},
    "ownerId": {"type": "string", "format": "tsid"},
    "title": {"type": "string"},
    "description": {"type": "string"},
    "isOpen": {"type": "boolean", "default": true},
    "createdAt": {"type": "string", "format": "date-time"},
    "updatedAt": {"type": ["string", "null"], "format": "date-time"}
  },
  "additionalProperties": false
}
```

Sample

JSON ▾

```
{
  "id": "01HYNPRJ01ABCDE1234567890",
  "ownerId": "01HYN8XYZ9QRS1234567890",
  "title": "Ambient Album Collab",

```

```
"description": "Looking for modular synth & field recording artists",
"isOpen": true,
"createdAt": "2025-07-19T16:20:00Z",
"updatedAt": "2025-07-19T16:20:00Z"
}
```

Swagger/OpenAPI