*GamTrack Data Dictionary*

*A data dictionary is a comprehensive documentation resource that describes the data elements, attributes, and structures within a database or system. It is a reference guide for understanding data elements' meaning, usage, and relationships. The data dictionary for the tracker application outlines the key entities and attributes essential for managing information related to users, games, user-game interactions, posts, and comments. It offers a structured overview of the data schema, including user profiles, game information sourced from IGDB, user-game interactions, user-generated posts, and comments. Each table’s fields, data types, and relationships are defined, facilitating a clear understanding of the data structure and aiding in the effective utilization and maintenance of the application. This documentation ensures consistency, accuracy, limitations, and transparency in data management processes, promoting efficient development and collaboration within the application’s ecosystem.*

User Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| \_id | ObjectId | Primary Key | Yes | Unique identifier |
| Username | String |  | Yes | User's username |
| email | String |  | Yes | User's email |
| password | String |  | Yes | Hashed password |
| gameConsole | String |  |  | User's preferred gaming console |
| IsActive | Boolean |  |  | User's active status |

Game Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| GameID | ObjectId | Primary Key | Yes | Unique identifier |
| Title | String |  | Yes | Title of the game |
| Genre | String |  |  | Genre of the game |
| ReleaseDate | Date |  |  | Release date of the game |
| Description | String |  |  | Description of the game |

UserHistory Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| \_id | ObjectId | Primary Key | Yes | Unique identifier |
| userID | ObjectId | Foreign Key (User) | Yes | References User |
| interactions | Array of Documents |  |  | Array storing user interactions |
|  |  |  |  |  |

DirectMessage Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| MessageID | ObjectId | Primary Key | Yes | Unique identifier |
| SenderID | ObjectId | Foreign Key (User) | Yes | References User (Sender) |
| ReceiverID | ObjectId | Foreign Key (User) | Yes | References User (Receiver) |
| Content | String |  | Yes | Content of the message |
| Timestamp | Date |  | Yes | Timestamp of the message |

Interaction Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| \_id | ObjectId | Primary Key | Yes | Unique identifier |
| userID | ObjectId | Foreign Key (User) | Yes | References User |
| igdbGameID | ObjectId | Foreign Key (Game) | Yes | References Game |
| contentType | String |  | Yes | Type of interaction (post or comment) |
| content | String |  | Yes | Content of the post or comment |
| datePosted | Date |  | Yes | Date when the interaction was posted |
| dateDeleted | Date |  |  | Date when the interaction was deleted |
| dateUpdated | Date |  |  | Date when the interaction was updated |
| dateViewed | Date |  |  | Date when the interaction was viewed |

UserSearch Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| Searchid | ObjectId | Primary Key | Yes | Unique identifier |
| UserId | ObjectId | Foreign Key (User) | Yes | References User |
| ResultUserId | Array of Objects | References User |  | Ids of Users |

Friendship Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| FriendshipID | ObjectId | Primary Key | Yes | Unique identifier |
| UserID1 | ObjectId | Foreign Key (User) | Yes | References User (1st User) |
| UserID2 | ObjectId | Foreign Key (User) | Yes | References User (2nd User) |
| Status | String |  | Yes | Friendship status |

Feedback Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| FeedbackID | ObjectId | Primary Key | Yes | Unique identifier |
| UserID | ObjectId | Foreign Key (User) | Yes | References User |
| FeedbackContent | String |  |  | Feedback content |
| DateSubmitted | Date |  |  | Date when the feedback was submitted |

GamePlay Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| PlayID | ObjectId | Primary Key | Yes | Unique identifier |
| UserID | ObjectId | Foreign Key (User) | Yes | References User |
| GameID | ObjectId | Foreign Key (Game) | Yes | References Game |
| DateTimeOfPlay | Date |  | Yes | Date and time of the gameplay |

Flag Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| FlagID | ObjectId | Primary Key | Yes | Unique identifier |
| UserID | ObjectId | Foreign Key (User) | Yes | References User |
| PostID | ObjectId | Foreign Key (Interaction) |  | References Interaction (Post) |
| CommentID | ObjectId | Foreign Key (Interaction) |  | References Interaction (Comment) |
| Reason | String |  |  | Reason for flagging |
| DateFlagged | Date |  |  | Date when the post/comment was flagged |

Announcement Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| AnnouncementID | ObjectId | Primary Key | Yes | Unique identifier |
| AnnouncementContent | String |  | Yes | Content of the announcement |
| DateCreated | Date |  | Yes | Date when the announcement was created |

SystemActivityLog Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| LogID | ObjectId | Primary Key | Yes | Unique identifier |
| ActivityDescription | String |  | Yes | Description of the activity |
| UserID | ObjectId | Foreign Key (User) |  | References User (if applicable) |
| Timestamp | Date |  | Yes | Timestamp of the activity |

Report Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| ReportID | ObjectId | Primary Key | Yes | Unique identifier |
| Type | String |  |  | Type of report |
| Description | String |  |  | Description of the report |

IGDB Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| IGDBID | ObjectId | Primary Key | Yes | Unique identifier from IGDB |
| Title | String |  | Yes | Title of the game |
| Genre | String |  |  | Genre of the game |
| Platform | String |  |  | Game platform |
| ReleaseDate | Date |  |  | Release date of the game |
| Description | String |  |  | Description of the game |
| IGDBRating | Float |  |  | IGDB rating |
| Creator | String |  |  | Game creator/developer |

GameTrack Database Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| UserGameID | ObjectId | Primary Key | Yes | Unique identifier |
| UserID | ObjectId | Foreign Key (User) | Yes | References User |
| GameID | ObjectId | Foreign Key (IGDB) | Yes | References IGDB |
| Playtime | Int |  |  | Total playtime |
| LastPlayed | Date |  |  | Last play date |
| Status | String |  |  | Game status |

Posts Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| PostID | ObjectId | Primary Key | Yes | Unique identifier |
| UserID | ObjectId | Foreign Key (User) | Yes | References User |
| GameID | ObjectId | Foreign Key (IGDB) | Yes | References IGDB |
| Title | String |  | Yes | Post Title |
| Content | Text |  |  | Post content |
| CreationDate | Date |  | Yes | Creation date |
| UpdateDate | Date |  |  | Last update date |
| DeleteDate | Date |  |  | Deletion date |

Comment Table

| Field | Field Type | Type | Required | Description |
| --- | --- | --- | --- | --- |
| CommentID | ObjectId | Primary Key | Yes | Unique identifier |
| PostID | ObjectId | Foreign Key (Posts) | Yes | References Posts |
| UserID | ObjectId | Foreign Key (User) | Yes | References User |
| Content | Text |  | Yes | Comment content |
| CreationDate | Date |  | Yes | Creation date |
| UpdateDate | Date |  |  | Last update date |
| DeleteDate | Date |  |  | Deletion date |