**Django Unchained – Data Dictionary**

**Notes:**

* A varchar is used to represent the string type.
* All ID \***pk**\*’s are automatically generated by Django, so they do not appear in models.py

“User” Relation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Restrictions** | **Data Type** | **Description** | **Default (if any)** |
| User ID \***pk**\* | Not null, unique | Integer | Unique ID of a User | Next integer |
| Username | Not null, unique | String | Unique username |  |
| Password | Not null | String | Password to be confirmed on registration |  |
| Email | 75 characters | String | Contact email address of the user. Not necessarily related to a Member’s email. |  |
| Last Name | 30 characters | String | User’s name. Not necessarily related to Member’s name. |  |
| First Name | 30 characters | String |  |
| Date Registered | Not null | Date | Generated automatically on registration. | Current Date |
| User type | Not null | (Integer)\* | a.k.a “User Type”. Either “End User” or “End Admin” | End User |
| Is Active | Not null | Boolean | Determines whether a user is considered active. Used instead of deletion | True |
| Is Superuser | Not null | Boolean | Determines whether the user is the ‘superuser’ of the site. Django related. | False |

***Notes****:*

*The entire “User” relation is a core part of the Django project, and so this relation does not appear in models.py*

*The user type would be represented by some integer value indicating user or admin status. However, since Django’s “User” model is used, these types are materialized as Django “Groups” – the ‘user type’ row does not exist in the User table, but as an entry in another table that indicates which groups a club belongs to. This is very similar to how club tags are handled in our schema (see below).*

“Member” Relation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Restrictions** | **Data Type** | **Description** | **Default (if any)** |
| Member ID \***pk**\* | Not null, unique | Integer | Unique ID of a Member | Next integer |
| Last Name | 40 characters | String | Member’s name. Not necessarily relation to User’s name. |  |
| First Name | 40 characters | String |  |
| Email | 75 characters | String | Contact email for this Member. |  |
| Address | 255 characters | String | Contact address for this Member. |  |
| Facebook | 40 characters | String | The Member’s facebook page. |  |
| Twitter | 40 characters | String | The Member’s twitter handle. |  |
| Phone | 40 characters | String | The Member’s phone number. |  |
| Interests | 255 characters | String | A short paragraph describing the Member. Not required. |  |
| Owner | Not null | Integer, Foreign Key to Owner ID | The User that manages this Member | Current User |

“Club” Relation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Restrictions** | **Data Type** | **Description** | **Default (if any)** |
| Club ID \***pk**\* | Not null, unique | Integer | Unique ID of a Club | Next integer |
| Name | Not null, unique, 40 chars | String | Unique name of the Club |  |
| Address | Not null, 255 chars | String | Formatted address of the Club. E.g. “1 Sporting Way, Sportstown”. |  |
| Latitude | 10 digits, 5 d.p’s | Decimal | Geographical coordinates (location) of the Club, in decimal notation. | Geocoded from address |
| Longitude | 10 digits, 5 d.p’s | Decimal |
| Type | Not null. | Integer, Foreign Key to ClubType ID | The type of club. E.g, Soccer, AFL, Swimming etc. |  |
| Number of Members | Not null | Integer | Number of active Members that have Memberships with the Club | 0 |
| Creation Date | Not null | Date | Date the Club was created | Current Date |
| Recruiting Members | Not null | Boolean | Determines whether the club is accepting new Memberships. | True |
| Owner | No restrictions on the DB. \* | Integer, Foreign Key to Member ID | The Member that “owns” the club. Only they (and site admins) can edit/delete the club. |  |
| Contact | No restrictions on the DB. | Integer, Foreign Key to Member ID | The Member listed as the Club’s public contact. Software restricts this to only be available to Member’s of the club. |  |
| Description | Not null, 255 chars | String | A short paragraph describing the Club. Required. |  |
| Facebook | 40 characters | String | The Club’s facebook page. |  |
| Twitter | 40 characters | String | The Club’s twitter handle. |  |

*\*****Notes:***

*When adding or editing a club, the application’s software does not allow the user to leave the Club Owner field empty. However, it is possible to delete a Member who happens to be the Owner of a Club.*

*If this occurs, the User is warned that they are about to delete the Owner of a Club. If the User proceeds, the Owner field of the Club that the Member was the Owner of is set to NULL. This is allowed within the database.*

*The website’s administrators are notified immediately on the index page that there exists a Club without an Owner, and they can assign any Member of that Club to become the Owner, or otherwise delete that Club.*

“Membership Application” Relation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Restrictions** | **Data Type** | **Description** | **Default (if any)** |
| Membership Application ID \***pk**\* | Not null, unique | Integer | Unique ID of the Membership Application | Next integer |
| Date Applied | Not null | Date | The date the Member the applied to the Club. | Current Date |
| Member | Not null | Integer, Foreign Key to Member ID | The Member applying |  |
| Club | Not null | Integer, Foreign Key to Club ID | The Club being applied to |  |
| Rejected | Not null | Boolean | The result of the application | False |
| - | The Member and Club must be unique together | - | - | - |

“Membership” Relation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Restrictions** | **Data Type** | **Description** | **Default (if any)** |
| Membership ID \***pk**\* | Unique, not null | Integer | Unique ID of the Membership | Next integer |
| Club | Not null | Integer, Foreign Key to Club ID | The Club the Member is apart of |  |
| Member | Not null | Integer, Foreign Key to Member ID | The Member that is apart of the Club |  |
| Date Joined | Not null | Date | The date that the Member joined the Club | Current Date |
| Last Paid |  | Date | The last acknowledged date where the Member paid the Club |  |
| - | The Club and Member must be unique together | - | - | - |

“Club Tag” Relation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Restrictions** | **Data Type** | **Description** | **Default (if any)** |
| Club Tag ID \***pk**\* | Unique, not null | Integer | Unique ID of the Club Tag | Next Integer |
| Name | Unique, not null | String | The name of the Club Tag |  |

“Club Tags” Relation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Restrictions** | **Data Type** | **Description** | **Default (if any)** |
| Club | Not null | Integer, Foreign Key to Club ID | The Club to be associated with a Club Tag |  |
| Club Tag | Not null | Integer, Foreign Key to Club Tag ID | The Club tag to be associated with a Club |  |
| - | Club and Club Tag together must be unique **\*pk\*** | - | - | - |

“Club Type” Relation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Restrictions** | **Data Type** | **Description** | **Default (if any)** |
| Club Type ID \***pk**\* | Unique, not null | Integer | Unique ID of the Club Type | Next Integer |
| Name | Unique, not null | String | The name of the Club Type. E.g. “Swimming” |  |
| Description | 255 characters | String | Some description of this type of club. E.g. “A club where members go to swim.” |  |
| Club Count | Not null | Integer | Number of Clubs in the database that are of this type. | 0 |