

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 <small>(if any)</small>
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 <small>(if any)</small>
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 <small>(if any)</small>
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 <small>(if any)</small>
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 <small>(if any)</small>
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