Strength Research Online Database v3

Table: User

The User table holds information about each individual user. Users can be administrators, trainers, or clients. There is a natural hierarchy of trainers who work with multiple clients and clients who employ different trainers for different disciplines. The application provides functionality that allows trainers to bring on-board new clients, manage their coaching programs, and transfer them to other associated trainers.

Verification rules are applied in the React maintenance application in the front-end ensure that only valid combinations of these attributes are allowed to be specified for each user.

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| ***Attribute Name*** | | ***Description*** | ***Data Type*** | ***Format*** | ***Range*** | ***Req*** | ***Key*** |
| user\_ID | | Unique six-digit code to identify each user. A user can be an administrators, trainers, or clients. This ID is automatically assigned when the user record is created and can be used to log-in to the site. | VARCHAR(6) | N6 | 1 to 999999 | Y | PK |
| user\_authority | | The authority level of this user:   |  |  | | --- | --- | | **A** | Administrator who has access to all functionality. Administrators can bring on-board new Trainers. | | **T** | Trainer who can manage the training plans for clients. They have full access to the information of all the clients that they manage. | | **C** | Regular client. They can manage their own identity and contact information but cannot modify their own training plans. | | CHAR(1) |  |  | Y |  |
| password | | Case-sensitive password. The stored password is hash-encrypted when it is created or changed with a one-way **bcrypt()** salted hashing algorithm.  During password verification, the bcrypt library provides a function to verify the plain-text password entered against the encrypted one. | VARCHAR(70) | 60 |  | Y |  |
| user\_status | Tracks the current status of the user and their password:   |  |  | | --- | --- | | **A** | The user has a valid, active password and can access the site. | | **R** | The user is currently in the process of  resetting their password, possibly because they forgot it. | | **N** | The used is new and in the process of registering. | | | CHAR(1) |  |  |  |  |

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| ***Attribute Name*** | | ***Description*** | ***Data Type*** | ***Format*** | ***Range*** | ***Req*** | ***Key*** |
| registration \_token | The registration activation or password reset token sent to the user by email. | | VARCHAR(50) |  |  |  |  |
| token\_date\_time | The date and time the registration or reset token was created. This is used during the password reset process to invalidate expired tokens. The current token lifetime is set to xxxxx minutes | | DATETIME |  |  |  |  |
| last\_sign\_in\_date | Date and time of the registrant’s last sign in to the system. | | DATETIME |  |  |  |  |

Name and contact information

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| ***Attribute Name*** | ***Description*** | | ***Data Type*** | | ***Format*** | | ***Range*** | | ***Req*** | | ***Key*** |
| salutation | Salutation including Mr, Mrs, Sir, Dr, Lady, Lord, and Rev. | | VARCHAR(10) | |  | |  | |  | |  |
| first\_name | First name | | VARCHAR(30) | |  | |  | | Y | |  |
| middle\_name | Middle name or initial | | VARCHAR(30) | |  | |  | |  | |  |
| last\_name | Last name or surname | | VARCHAR(50) | |  | |  | | Y | |  |
| alias | Short alias name for the user (e.g. LukeS). It must be unique because it can be used to log in with the password instead of entering the user\_ID or email\_address. It is checked for uniqueness during maintenance before being accepted. | | VARCHAR(30) | |  | |  | |  | |  |
| gender | Gender. Valid options include:   |  |  | | --- | --- | | **M** | Male. | | **F** | Female. | | **O** | Other. | | **N** | Not specified. | | | CHAR(1) | |  | |  | |  | |  |
| pronouns | Pronouns for specifying gender including him/he, she/her. This is a free-form field that is not validated. | | VARCHAR(20) | |  | |  | |  | |  |
| phone\_number | Mobile phone number or landline number. Maximum length is based on the ITU-T E164 standard recommendation available from here: <https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=E.164> | | VARCHAR(15) | |  | |  | | Y | |  |
| email\_address | Email address. Validated using the RFC 5322 standard such that:   * The local part is no more than 64 characters long. * The @ sign is present. * The domain part is no longer than 255 characters.   <https://datatracker.ietf.org/doc/html/rfc5322> | | VARCHAR(320) | | #@#.# | |  | | Y | |  |
| ***Attribute Name*** | ***Description*** | | ***Data Type*** | | ***Format*** | | ***Range*** | | ***Req*** | | ***Key*** |
| address\_1 | Address line one. | | VARCHAR(30) | |  | |  | | Y | |  |
| address\_2 | Address line two. | | VARCHAR(30) | |  | |  | |  | |  |
| address\_3 | Address line three. | VARCHAR(30) | |  | |  | |  | |  | |
| suburb | Suburb. | VARCHAR(30) | |  | |  | | Y | |  | |
| city | City name. | VARCHAR(30) | |  | |  | | Y | |  | |
| postcode | Postcode. | VARCHAR(30) | |  | |  | | Y | |  | |
| country | Country name | VARCHAR(30) | |  | |  | | Y | |  | |
| date\_of\_birth | Date of birth | DATE | |  | |  | | Y | |  | |
| gym\_name | Name of the gym the user is registered at or the trainer operates out of. This could be a foreign key to a list of gyms the trainers are associated with. | VARCHAR(30) | |  | |  | |  | | FK | |
| Alias |  | VARCHAR(2 | |  | |  | |  | |  | |

Payment plan information

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| ***Attribute Name*** | ***Description*** | ***Data Type*** | ***Format*** | ***Range*** | ***Req*** | ***Key*** |
| payment\_type | The current payment plan of this user: | CHAR(2) |  |  | Y | FK |

Emergency contact information

This section carries the details of the assigned guardian of a juvenile dancer. If the calculated registrant age is less than or equal to seven, then guardian information must be supplied. Do we need this?

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| ***Attribute Name*** | ***Description*** | ***Data Type*** | ***Format*** | ***Range*** | ***Req*** | ***Key*** |
| emg\_contact\_name | The name of the person who is to be contacted in the event of an emergency. | VARCHAR(60) |  |  | Y |  |
| emg\_contact \_phone | The emergency contact phone number | VARCHAR(15) |  |  | Y |  |
| emg\_contact email\_address | The email address of the contact. | VARCHAR(60) |  | #@#.# | Y |  |

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| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute Name*** | ***Description*** | ***Data Type*** | ***Format*** | ***Range*** | ***Req*** | ***Key*** |

Table: Configuration

Holds the configuration settings used by the application.

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| --- | --- | --- | --- | --- | --- | --- |
| ***Attribute Name*** | ***Description*** | ***Data Type*** | ***Format*** | ***Range*** | ***Req*** | ***Key*** |
| config\_ID | The key to the configuration file. This is always 1. | SMALLINT | N | 1 to 1 | Y | PK |
|  | *More to come ….* |  |  |  |  |  |

Table: Training plan

These are a set of linked tables that contain the training plans for an individual client. This data can be planned for future work, current plans being worked on by the client, or historical completed records.

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| ***Attribute Name*** | ***Description*** | ***Data Type*** | ***Format*** | ***Range*** | ***Req*** | ***Key*** |
| plan\_ID | The key to the client this plan is for. | TBA |  |  | Y | PK |
|  | *More to come ….* |  |  |  |  |  |