# UserService

This part of the system represents users that can use the XeroDB application. The flow chart below shows the transitions of the user.

## User States

* A user in the ‘NEW’ state has registered but has not confirmed their email address. This confirmation process ensures a valid email address is associated with the user account.
* A user in the ‘PENDING’ state has registered and confirmed their email but has not been approved by another user with the ‘admin’ role. This approval process ensures that the user is a valid member (student or mentor) of the team.
* A user in the ‘ACTIVE’ state can login and use the system.
* A user in the ‘DISABLED’ state cannot use the system and has been explicitly disabled. This state is used for problematic users or for students that have left the team, but we want to keep the record of their activity in the system.

## Joining the Site

This flow chart shows the transition of a user from initialing loading the site until the are an active member of the site.



## User Data Table

This section documents the user data tables associated with the UserService.

Table Name: users

Purpose: this table represents the users in the system

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Values** | **Description** | **Required** |
| Id | Number | The ID number of the user | Yes |
| Username | String | The username for the user | Yes |
| Password | String | The password for the user | Yes |
| FirstName | String | The first name of the user (and middle if desired) | Yes |
| LastName | String | The last name of the user | Yes |
| Email | String | The email address of the user | Yes |
| Roles | String | Comma separated list of roles for a user  admin – admin role across all subsystem  useradmin – admin for users in the system  inventoryadmin – admin for mechanical inventory  robotadmin – admin for the robots | Yes |
| State | String | State of the user ‘new’, ‘pending’, ‘active’, ‘disabled’  new – waiting on confirmation of their email  pending – waiting on admin to make them active  active – has complete access to the system (but still controlled by their role)  disabled – account has been explicitly disabled by an admin | Yes |

Table Name: forgot

Purpose: this table represents the users that have forgot their password and asked for a password reset

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Values** | **Description** | **Required** |
| Id | Number | The ID number of the user | Yes |
| Token | String | The token provided in the email | Yes |
| Created | Date/Time | When the token was created | Yes |

# Robot Service

# Inventory Service