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Energy Monitoring System

# Logo

* Super Admin will be uploading a Logo that will be displayed upon login.
* Admin can change and upload a logo for the respective group.
* Logo viewed by the user on the page should be the logo their admin assigned. If no logo is assigned or uploaded, the Logo uploaded by the Super Admin will be shown in the page.

# Login Credentials

* Username has a maximum length of 50 characters
* Password has a maximum length of 50 alphanumeric
* Username and password are mandatory
* An error message “Username or password is empty” if one of the fields is not supplied of if both fields are empty.
* An error message “Invalid username or password” if username or password is invalid or cannot be found in the database.

## Auto – Logout

* The system will automatically log out the user once the system detects that the access is expired. There will be a notification to the user “Access has expired”.
* If the system detected that the user is currently logged in and the access is expired, the system will automatically log out the user. A notification “Access has expired” will display.

## Forgot Password

* The user needs to provide the email address used during account creation.
* The system generated password will be sent to the user’s email address.
* The user needs to login again using the system generated password. The system will prompt the user to change the password by redirecting to change password page.

## User’s Registration

*During creation of account, the Super Admin or Admin need to fill out the information in Add user page. On successful user creation, the system will:*

* Generate a temporary password and send to user’s email address
* The user needs to login again using the system generated password. The system will prompt the user to change the password by redirecting to change password page.

## Reset Password

* Super admin and admin have the right to reset password.
* Super admin and admin need to search for the user’s name.
* The system will generate new password for the user.
* The system will send the generated password to user’s email address.
* Notification message: “Are you sure you want to reset the password?” Clicking yes will continue the operation. Clicking no will reset the state.

# Users

## Super Admin

**Overview:**

*This user can view all the admin users, users under admin users, folders, management screens and charts.*

*Only super admin can update and delete Admin users and users from different groups.*

### **Add Admin users**

* The Super Admin should be able to add admin users
* First name, Last name, email and username are all mandatory
* Status, type and access expiration are optional
* Username should be maximum of 50 characters and minimum of 6 characters
* Super admin can define users’ access expiration. A calendar type control should be used in setting the access expiration
* Access expiration should not be less than the current date. Date format is dd/mm/yyyy
* The system should check for duplicate usernames and email addresses
* Error message “ First Name is required” for empty first name
* Error message “ Last Name is required” for empty last name
* Error message “ email is required” for empty email
* Error message “ username is required” for empty username
* Error message “username already exists” for duplicate username
* Error message “email address already exists” for duplicate email
* Super Admin should be able to set access rights for the admin users.
* Clicking save button will save the data in the database.

Notes:

1. Status: active and inactive
2. Type: Super Admin, Admin and users

### **Add users**

* The Super Admin should be able to add users
* First name, Last name, email and username are all mandatory
* Status, type and access expiration are optional
* Username should be maximum of 50 characters and minimum of 6 characters
* Super admin can define users’ access expiration. A calendar type control should be used in setting the access expiration
* Access expiration should not be earlier than the current date. Date format is dd/mm/yyyy
* The system should check for duplicate usernames and email addresses
* Error message “ First Name is required” for empty first name
* Error message “ Last Name is required” for empty last name
* Error message “ email is required” for empty email
* Error message “ username is required” for empty username
* Error message “username already exists” for duplicate username
* Error message “email address already exists” for duplicate email
* Super Admin should be able to set access rights for the users.
* Clicking save button will save the data in the database

Notes:

1. Status: active and inactive
2. Type: Super Admin, Admin and users

### **Update Admin User**

### **Update Users**

* Super admin can view all the users (admin and users) and should be able to select any user from the resource tree
* User selected should auto-populate the fields
* User information fields should be enabled.
* First name, Last name, email and username are all mandatory
* Status, type and access expiration are optional
* Super admin can define users’ access expiration. A calendar type control should be used in setting the access expiration
* Access expiration should not be earlier than the current date. Date format is dd/mm/yyyy
* The system should check for duplicate usernames and email addresses
* Error message “ First Name is required” for empty first name
* Error message “ Last Name is required” for empty last name
* Error message “ email is required” for empty email
* Error message “ username is required” for empty username
* Error message “username already exists” for duplicate username
* Error message “email address already exists” for duplicate email
* Super Admin should be able to set access rights for the users.
* Clicking save button will save the data in the database

Notes:

1. Status: active and inactive
2. Type: Super Admin, Admin and users

### **Delete Admin User**

### **Delete Users**

* Super admin can view all the users (admin and users) and should be able to select any user from the resource tree
* User selected should auto-populate the fields
* Clicking delete user button will remove the user from the list
* A confirmation message “Are you sure you want to delete this user?” should be displayed. Clicking OK will process the request.
* Deleted users will not be able to login to the system. An error message “username and password do not exists.
* Roles and access rights will be removed

## Admin

**Overview:**

*Admin users should not be able to create another admin user.*

*Only users in their respective group can be created, updated and deleted.*

*Admin users cannot view the users of different groups.*

*Admin users can only view the folders in his/her group assigned by super admin.*

*Admin users can reset the password of the users in his/her group.*

### **Add users**

* Admin should be able to add users
* First name, Last name, email and username are all mandatory
* Status, type and access expiration are optional
* Username should be maximum of 50 characters and minimum of 6 characters

**1E852g52**

* Super admin can define users’ access expiration. A calendar type control should be used in setting the access expiration
* Access expiration should not be earlier than the current date. . Date format is dd/mm/yyyy
* The system should check for duplicate usernames and email addresses
* Error message “ First Name is required” for empty first name
* Error message “ Last Name is required” for empty last name
* Error message “ email is required” for empty email
* Error message “ username is required” for empty username
* Error message “username already exists” for duplicate username
* Error message “email address already exists” for duplicate email
* Admin should be able to set access rights for the users. Only folders assigned to the Admin can be assigned to the users.
* Clicking save button will save the data in the database.

Notes:

1. Status: active and inactive
2. Type: users

### **Update Users**

* Admin can view the users in his/her group in the resource tree
* User selected should auto-populate the fields
* User information fields should be enabled.
* First name, Last name, email and username are all mandatory
* Status, type and access expiration are optional
* Admin can define users’ access expiration. A calendar type control should be used in setting the access expiration
* Access expiration should not be earlier than the current date. Date format is dd/mm/yyyy
* The system should check for duplicate usernames and email addresses
* Error message “ First Name is required” for empty first name
* Error message “ Last Name is required” for empty last name
* Error message “ email is required” for empty email
* Error message “ username is required” for empty username
* Error message “username already exists” for duplicate username
* Error message “email address already exists” for duplicate email
* Admin should be able to set access rights for the users. Only folders assigned to the Admin can be assigned to the users.
* Clicking save button will save the data in the database

Notes:

1. Status: active and inactive
2. Type: users

### **Delete Users**

* Admin can view the users in his/her group in the resource tree.
* User selected should auto-populate the fields
* Clicking delete user button will remove the user from the list
* A confirmation message “Are you sure you want to delete this user?” should be displayed. Clicking OK will process the request.
* Deleted users will not be able to login to the system. An error message “username and password do not exist”.
* Roles and access rights will be removed

**Data Fields**

|  |  |
| --- | --- |
| Field name | Length |
| Last Name | 20 |
| First Name | 20 |
| Email | 20 |
| Username | 8 |
| Status | 8 |
| Type | 20 |
| Access expiration | 10 |

## Roles and Permission

Legends:

|  |  |
| --- | --- |
| *With Permission* |  |
| *No Permission(functions will be hidden or disable)* | X |
| *Not applicable* | - |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Super Administrator** | | | | | | |
|  | Execute | View | Create | Modify | Delete | Behavior |
| **User Management** | - |  |  |  |  |  |
| Users | - |  |  |  |  | Can view, create, modify and delete users, admin and super admin. Super Admin can view all admins and users created by admin. Super admin will no longer view the details of the Super admin he/she created. |
| Groups | - |  |  |  |  | Can view, create, modify and delete Groups. Super Admin can view all groups. Only Super Admin has the only permission to create groups. |
| Logo | - |  |  |  |  |  |
| Background image | - |  |  |  |  |  |
| Folders | - |  |  |  |  | Can view, create, modify and delete folders Can view the list of all folders.  Can view the users and admins who have access to the folders. |
| Sub-Folders | - |  |  |  |  | Can view, create, modify and delete sub-folders |
| **Dashboard** |  |  |  |  |  | Can view, edit, delete, and create charts and templates |
| **Management** | - |  |  |  |  | Can view, create, modify and delete Datapoint templates and settings |
| Template Management | - |  |  |  |  | Can view, create, modify and delete Datapoint templates |
| Datapoint Management | - |  |  |  |  | Can view, create, modify and delete Datapoint and datapoint settings |
| **Tools** |  |  |  |  |  |  |
| Generate Chart and Reports |  |  |  |  |  | Can view and create charts and datapoint templates |
| Import Datapoint |  | - | - | - | - |  |
| Printing |  | - | - | - | - | Can print charts and reports |
| Export Report |  | - | - | - | - |  |
| **Email** |  | - | - | - | - |  |
| **Archive** |  | - | - | - | - |  |
| **Discussion board** | - |  |  |  | - | Can post discussion related to the data |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Super Administrator** | | | | | | |
|  | Execute | View | Create | Modify | Delete | Behavior |
| **User Management** | - |  |  |  |  |  |
| Users | - |  |  |  |  | Can view, create, modify and delete users and admin he/she created. Admin he/she created will not show. Users with a different admin will not be displayed. Super Admin can view all admins and users created by admin. Super admin will no longer view the details of the Super admin he/she created. |
| Groups | - |  |  |  |  | Can view Groups. Only Super Admin has the only permission to create groups. |
| Logo | - |  |  |  |  |  |
| Background image | - |  |  |  |  |  |
| Folders | - |  |  |  |  | Can view, create, modify and delete folders Can view the list of all folders.  Can view the users who have access to the folders. |
| Sub-Folders | - |  |  |  |  | Can view, create, modify and delete sub-folders |
| **Dashboard** |  |  |  |  |  | Can view, edit, delete, and create charts and templates |
| **Management** | - |  |  |  |  | Can view, create, modify and delete Datapoint templates and settings |
| Template Management | - |  |  |  |  | Can view, create, modify and delete Datapoint templates |
| Datapoint Management | - |  |  |  |  | Can view, create, modify and delete Datapoint and datapoint settings |
| **Tools** |  |  |  |  |  |  |
| Generate Chart and Reports |  |  |  |  |  | Can view and create charts and templates |
| Import Datapoint |  | - | - | - | - |  |
| Printing |  | - | - | - | - | Can print charts and reports |
| Export Report |  | - | - | - | - |  |
| **Email** |  | - | - | - | - |  |
| **Archive** |  | - | - | - | - | Can post discussion related to the data |
| **Discussion board** | - |  |  |  | - |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Groups with create only privilege** | | | | | | |
|  | Execute | View | Create | Modify | Delete | Behavior |
| **User Management** | - | - | - | - | - |  |
| Users | - | - | - | - | - | Not applicable for a user. |
| Groups | - | - | - | - | - | Not applicable for a group. |
| Logo | - |  | - | - | - |  |
| Background image | - |  |  | X | X |  |
| Folders | - |  |  | X | X | Can view sub-folders |
| Sub-Folders | - |  |  | X | X | Can view sub-folders |
| **Dashboard** | - |  |  | X | X | Can view and create charts |
| **Management** | - |  |  | X | X |  |
| Template Management | - |  |  | X | X | Can view and create Datapoint template |
| Datapoint Management | - |  |  | X | X | Can view and create Datapoint and datapoint settings |
| **Tools** | - |  |  | X | X |  |
| Generate Chart and Reports |  |  |  | X | X |  |
| Import Datapoint | X | - | - | - | - |  |
| Printing |  | - | - | - | - |  |
| Export Report | X | - | - | - | - |  |
| **Email** |  | - | - | - | - |  |
| **Archive** | X | - | - | - | - |  |
| **Discussion board** | - |  |  |  | - |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Groups with create and modify privileges** | | | | | | |
|  | Execute | View | Create | Modify | Delete | Behavior |
| **User Management** | - | - | - | - | - |  |
| Users | - | - | - | - | - | Not applicable for a user. |
| Groups | - | - | - | - | - | Not applicable for a group. |
| Logo | - |  | - | - | - |  |
| Background image | - |  |  |  | X |  |
| Folders | - |  |  |  | X | Can view sub-folders. Only super admin or admin can create folders and sub-folders |
| Sub-Folders | - |  |  |  | X | Can view sub-folders. Only super admin or admin can create folders and sub-folders |
| **Dashboard** | - |  |  |  | X | Can create charts from the dashboard. Can modify, view and add charts that will be displayed in the dashboard |
| **Management** | - |  |  |  | X |  |
| Template Management | - |  |  |  | X | Can view, modify and create Datapoint template |
| Datapoint Management | - |  |  |  | X | Can view, modify, and create Datapoint and datapoint settings |
| **Tools** | - |  |  |  | X |  |
| Generate Chart and Reports |  |  |  |  | - |  |
| Import Datapoint | X | - | - | - | - |  |
| Printing |  | - | - | - | - |  |
| Export Report | X | - | - | - | - |  |
| **Email** |  | - | - | - | - |  |
| **Archive** | X | - | - | - | - |  |
| **Discussion board** | - |  |  |  | - |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Groups with create, modify and delete privileges** | | | | | | |
|  | Execute | View | Create | Modify | Delete | Behavior |
| **User Management** | - | - | - | - | - |  |
| Users | - | - | - | - | - | Not applicable for a user. |
| Groups | - | - | - | - | - | Not applicable for users group. |
| Logo | - |  | - | - | - |  |
| Background image | - |  |  |  |  |  |
| Folders | - |  |  |  |  | Can view sub-folders. Only super admin or admin can create folders and sub-folders |
| Sub-Folders | - |  |  |  |  | Can view sub-folders. Only super admin or admin can create folders and sub-folders |
| **Dashboard** | - |  |  |  |  | Can create charts from the dashboard. Can modify, view, delete and add charts that will be displayed in the dashboard |
| **Management** | - |  |  |  |  |  |
| Template Management | - |  |  |  |  | Can view, modify, delete, and create Datapoint template |
| Datapoint Management | - |  |  |  |  | Can view, modify, delete, and create Datapoint and datapoint settings |
| **Tools** | - |  |  |  | - |  |
| Generate Chart and Reports |  |  |  |  | - |  |
| Import Datapoint | X | - | - | - | - |  |
| Printing |  | - | - | - | - |  |
| Export Report | X | - | - | - | - |  |
| **Email** |  | - | - | - | - |  |
| **Archive** | X | - | - | - | - |  |
| **Discussion board** | - |  |  |  | - |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Groups with execute privilege** | | | | | | |
|  | Execute | View | Create | Modify | Delete | Behavior |
| **User Management** | - | - | - | - | - |  |
| Users | - | - | - | - | - | System is not accessibleto any users or groups except Super admin and Administrator. |
| Groups | - | - | - | - | - | System is not accessibleto any users or groups except Super admin and Administrator. |
| Logo | - |  | - | - | - |  |
| Background image | - |  |  |  |  |  |
| Folders | - |  | - | - | - |  |
| Sub-Folders | - |  | - | - | - |  |
| **Dashboard** | - |  | X | X | X | Can view charts in the dashboard |
| **Management** | - | - | - | - | - |  |
| Template Management | - | - | - | - | - |  |
| Datapoint Management | - | - | - | - | - |  |
| **Tools** |  | - | - | - | - |  |
| Generate Chart and Reports |  |  |  | - | - |  |
| Import Datapoint |  | - | - | - | - |  |
| Printing |  | - | - | - | - |  |
| Export Report |  | - | - | - | - |  |
| **Email** |  | - | - | - | - |  |
| **Archive** |  |  | - | - | - |  |
| **Discussion board** | - |  | - | - | - |  |