

# **LotusRoot Manual**

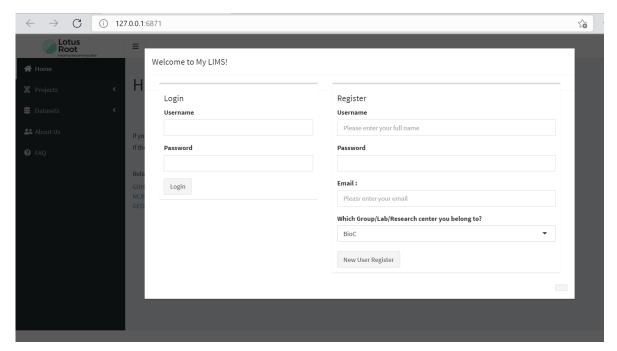
XU Mingyu



# Login & Register

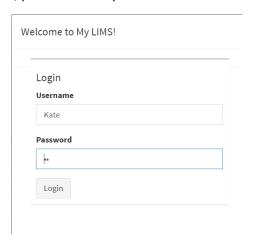
New users need to register first.

The right side of this page is the registration page. You need to enter "Username", "Password", and "Email" and choose which group/lab/research center you belong to.



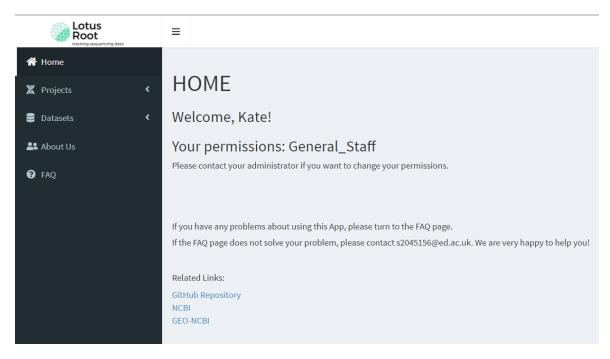
On the left side of the page is the log in part. Enter correct username and password to login.

If you forget your password, please contact your administrator to reset it.





## Home



You can see your permissions at the Home page.

We divided the permissions into four: General\_Staff, Project\_Supervisor, Data\_Administrator, System\_Maintenance.

All new users only have minimum permissions (General\_Staff). Please contact your administrator if you want to change your permissions.

Table 1. Permissions introduction

Permissions	General_ Staff	Project_ Supervisor	Data_ Administrator	System_ Maintenance
Search	<b>✓</b>	V	V	<b>✓</b>
Add/Edit/Delete projects		V		<b>✓</b>
Add/Edit/Delete datasets			V	<b>✓</b>
Manage project options		V		<b>✓</b>
Manage dataset options			V	~
Manage User Information				~

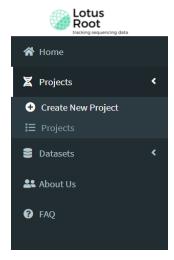
At the bottom of home page, there are some hyperlinks such as GitHub Repository of LotusRoot, NCBI and GEO-NCBI.



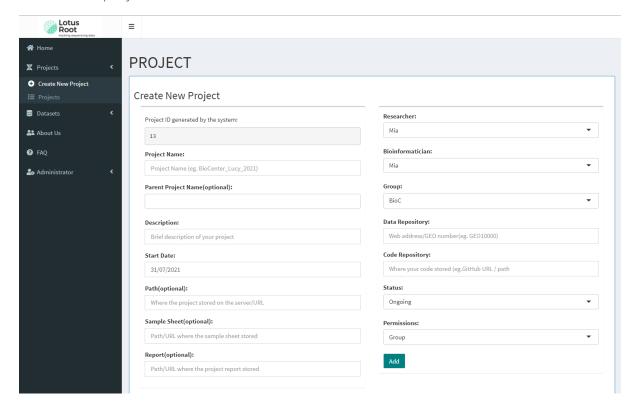
# **Projects**

This part is divided into two parts. One is "Create New Project" and the other is "Projects". The former is used to add new projects. The latter is used to search for projects and project-related datasets.

Only System\_Maintenance and Project\_Supervisor have the right to add, edit and delete projects. Others only can search projects and related datasets.



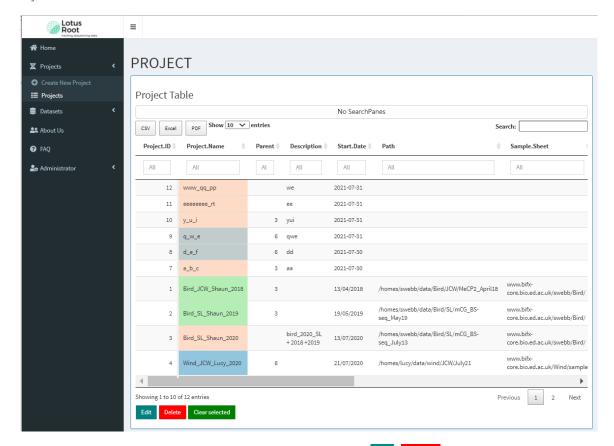
#### Create new project



- Project ID is generated by the system automatically.
- You can input other information in input boxes.
- Click the 'Add' button when your input is complete. Then you will see the successfully added message.
- Then you can go to "Projects" page to do some search.



#### **Projects**



In "Project Table", all the projects are listed. You can search, Edit, Delete projects here.

The different colours you see represent the different states of the projects. We set up four states: <a href="Ongoing">Ongoing</a>, On Hold, Published, and Complete.

If you want to deselect all the selected projects, you can click on "Clear selected" button.

There are 3 buttons in the upper left corner. You can export this table as csv, excel, and pdf file.

The number in the column named "Parent" means the ID number of its parent project. For example, the Project ID below is 1. And it has a parent project with the Project ID 3. In other words, Project 1 is a sub-project of Project 3 and Project 3 is the parent-project of Project 1.



## How to search projects

Each column in the table has a search box. There is also a search box in the upper right corner. You can enter keywords to search. Parts that match the keywords will be highlighted.

Here, I searched "jcw" in Project.Name search box. And it listed all the matched projects.





Click the column name can sort the column alphabetically.

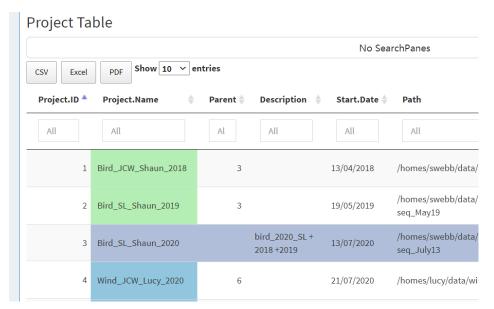
# How to search related datasets

- 1. Click one (or more) project in the "Project Table".
- 2. If it is a parent project which contains several sub-projects:
  - "Related Datasets" will display all the datasets that belong to all the parent and sub projects.
  - "Related Projects" will display the parent project and its sub projects.
- 3. If it is a sub-project:
  - "Related Datasets" will display all the datasets that belong to this sub project.
  - "Related Projects" will only display this sub projects.

#### Here is an example.

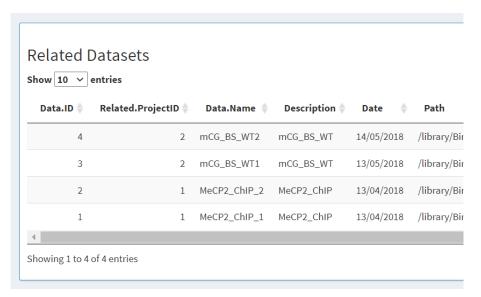
Select Project 3 in the "Project Table".



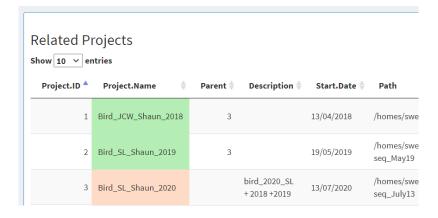


It is a parent project which contains several sub-projects.

So, "Related Datasets" shows all the datasets that belong to all the parent and sub projects.



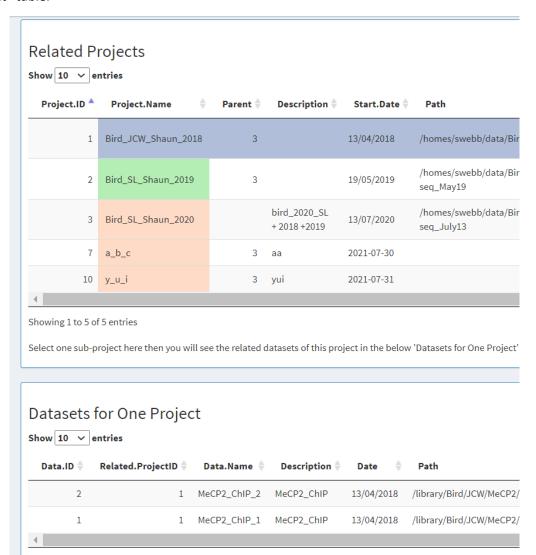
And "Related Projects" displays the parent project itself and its sub projects.





If you select one row in "Related Projects", you will see the related datasets to this project in the "Datasets for One Project" table below.

Here, I select the Project 1. And it shows all the datasets related to Project 1 in "Datasets for One Project" table.

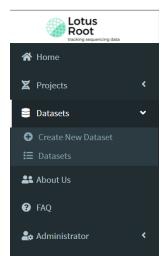




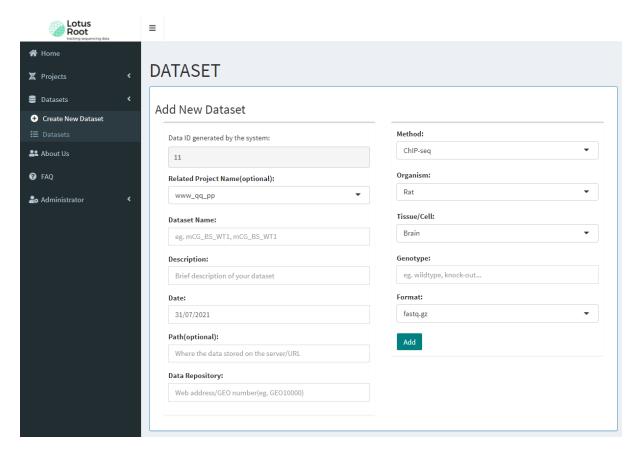
# **Datasets**

This part is divided into two parts. One is "Create New Dataset" and the other is "Datasets". The former is used to add new datasets. The latter is used to search for datasets and dataset-related projects.

Only System\_Maintenance and Data\_Administrator have the right to add, edit and delete datasets. Others only can search datasets and related projects.



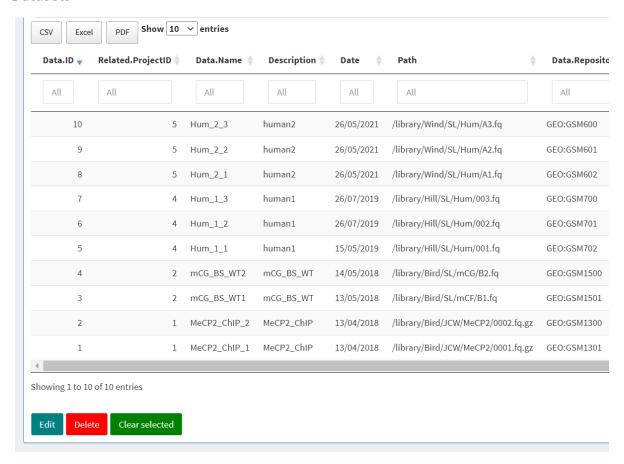
#### Create new dataset



- Dataset ID is generated by the system automatically.
- You can input other information in input boxes.
- Click the 'Add' button when your input is complete. Then you will see the successfully added message.
- Then you can go to "Datasets" page to do some search.



#### **Datasets**



In "Dataset Table", all the datasets are listed. You can search, Edit, Delete datasets here.

If you want to deselect all the selected datasets, you can click on "Clear selected" button.

There are 3 buttons in the upper left corner. You can export this table as csv, excel, and pdf file.

The number in the column named "Related.ProjectID" means the ID number of its related project. For example, the Data.ID below is 10. And it has a related project with the Project ID 5. In other words, Dataset 10(named 'Hum\_2\_3') is used in Project 5.

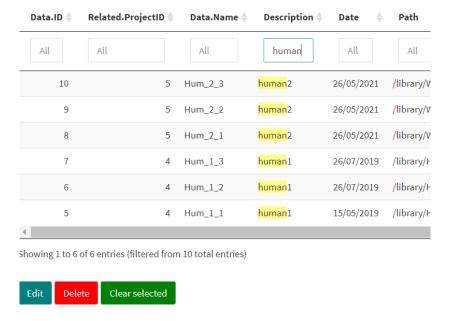




#### How to search datasets

Each column in the table has a search box. There is also a search box in the upper right corner. You can enter keywords to search. Parts that match the keywords are highlighted in yellow.

Here, I searched "human" in Description search box. And it listed all the matched projects.



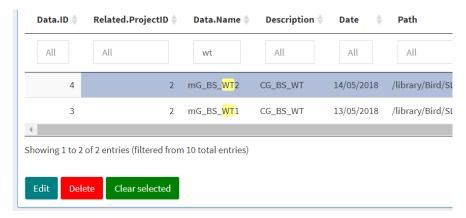
Click on the column name to sort it alphabetically.

### How to search related projects

- 1. Click one (or more) dataset in the "Dataset Table".
- 2. 'Related Projects' table will display all the projects that contain the dataset.

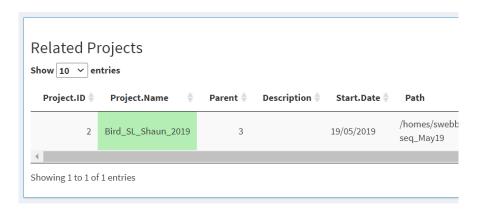
#### Here is an example.

Select the dataset named "mG\_BS\_WT2" in the "Dataset Table".



Then "Related Projects" table displays the project related to "mG\_BS\_WT2" dataset.

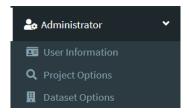






# Administrator/System Management

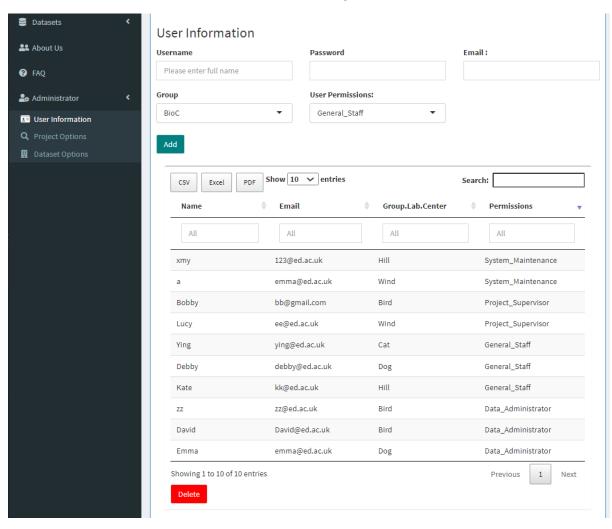
If you login as a system administrator, you can manage user information, user permissions, project input options and dataset input options.



#### **User Information**

You can Add/Delete user information here.

You cannot see the passwords here. So, if someone want to reset his/her password, you need to delete his/her information first and ask him/her to re-register.

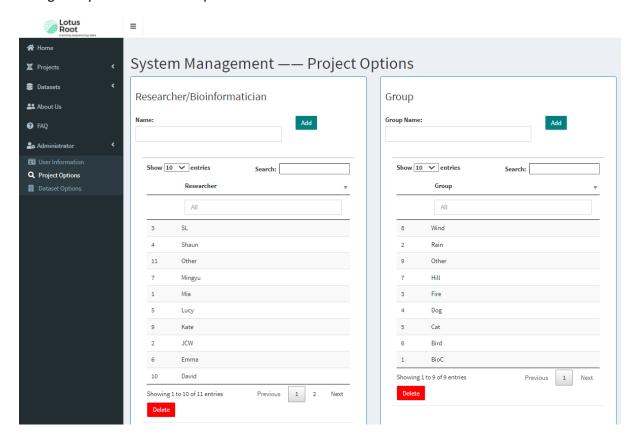




# **Project Options**

You can Add/Delete project options here. It contains 2 tables (Researcher/Bioinformatician and Group).

This section is associated with the 'Create New Project' input boxes. The content in the input box changes as you add or delete options here.



## **Dataset Options**

You can Add/Delete dataset options on this page. It contains 4 boxes (Method, Organism, Tissue/Cell, and Format).

This section is associated with the "Create New Dataset" input boxes. The content in the input box changes as you add or delete options here.



