



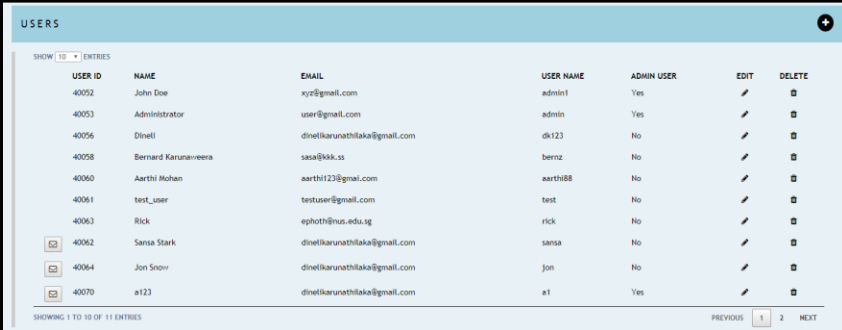


























## PGDB : User Guide

### ADMIN MODULE

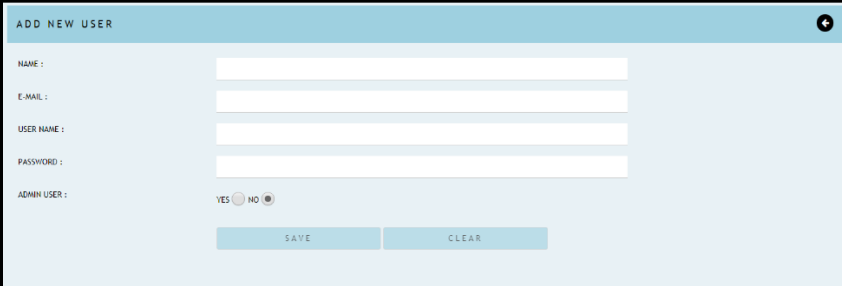
#### - **USER CREATION [Main Menu → Users]**

- Click on the Add button  to create a new user.
- All fields are compulsory. Make sure to insert a valid email address as re-set password instructions will be sent to this email. **[user create – 1.2]**
- If the new user is an administrator select YES for Admin user field.
- After saving the record it will get added to the user list. **[user view – 1.1]**
-  The mail icon indicates users who have not yet re-set their passwords.
- Click on it and you will see the mail content addressed to each user and you can directly click on Send Mail button to send / resend the mail. **[mail content – 1.3]**
- Edit/ Delete options   allow you to make amendments to user details or remove user from the system respectively.



USER ID	NAME	EMAIL	USER NAME	ADMIN USER	EDIT	DELETE
40052	John Doe	xyz@gmail.com	admin1	Yes	 	
40053	Administrator	user@gmail.com	admin	Yes	 	
40056	Dineel	dinelikarunathilaka@gmail.com	dk123	No		
40058	Bernard Karunaveera	sasa@kkl.sg	bernz	No		
40060	Aarthi Mohan	aarthi123@gmail.com	aarthi88	No	 	
40061	test_user	testuser@gmail.com	test	No		
40063	Rick	ephoth@nus.edu.sg	rick	No		
40062	Sansa Stark	dinelikarunathilaka@gmail.com	sansa	No	 	
40064	Jon Snow	dinelikarunathilaka@gmail.com	jon	No		
40070	at123	dinelikarunathilaka@gmail.com	at1	Yes		

**[user view - 1.1]**



ADD NEW USER

NAME :

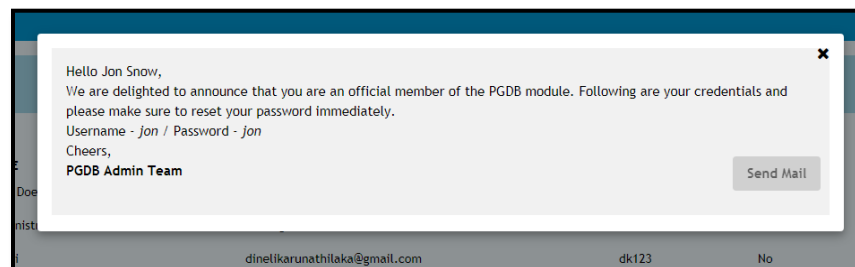
E-MAIL :

USER NAME :

PASSWORD :

ADMIN USER : YES ☐ NO ☒

**[user create - 1.2]**



**[mail content – 1.3]**

## USER MODULE [All of these features are available in the Admin module as well]

### - RESET PASSWORD [Main Menu → Reset Password]

- Once the user receives the re-set password mail they can login to the system and access this page.
- Insert the password given in the email to the Old Password field and proceed with creating the new password. **[password reset – 1.4]**
- For existing users, insert your old password and proceed with creating the new password.

**\*\* Note :** If you want to access 2 user accounts at once remember to use FireFox/ Safari. Chrome do not support this unless you use the incognito window. Use 2 separate browser windows to login to the 2 accounts.

The screenshot shows a form titled "RESET PASSWORD" with a light blue header. Below the header, there are three input fields labeled "OLD PASSWORD :", "NEW PASSWORD :", and "RE-ENTER NEW PASSWORD :". At the bottom of the form, there are two buttons: "RESET" and "CLEAR".

### **[password reset – 1.4]**

### - PROJECTS [Main Menu → Projects]

- This consists of 2 categories.
  1. Your Projects : Projects created by you. **[your projects view – 1.5]**
  2. Shared Projects : Projects shared with you by other users. **[shared projects view – 1.7]**
- Click on the Add button to create a new project. **[project create – 1.6]**
- Use edit/ delete options to make amendments to the project or remove it from the system.
- When a project is added, a record will get inserted to projects and user\_projects tables.

The screenshot shows a table titled "PROJECTS" with a light blue header. Below the header, there are two tabs: "YOUR PROJECTS" (active) and "SHARED PROJECTS". The table has columns: NAME, DESCRIPTION, EDIT, DELETE, and SHARE. There are three rows of projects. At the bottom, there is a pagination bar showing "SHOWING 1 TO 3 OF 3 ENTRIES" and "PREVIOUS 1 NEXT".



NAME	DESCRIPTION	EDIT	DELETE	SHARE
Project_1	Test project			
Project_2	Test project			
Project_3	Test Project			

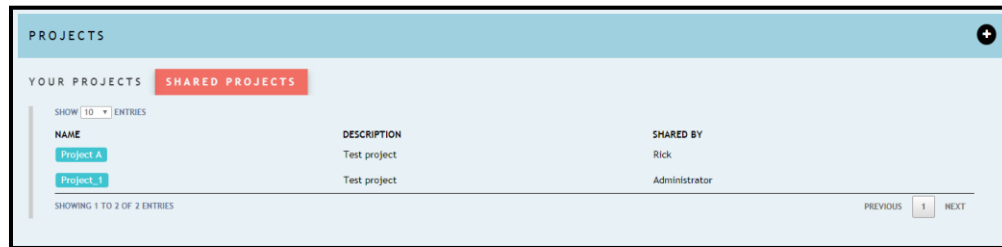
### **[your projects view – 1.5]**

The screenshot shows a form titled "ADD NEW PROJECT" with a light blue header. Below the header, there are two input fields labeled "NAME :" and "DESCRIPTION :". At the bottom of the form, there are two buttons: "SAVE" and "CLEAR".

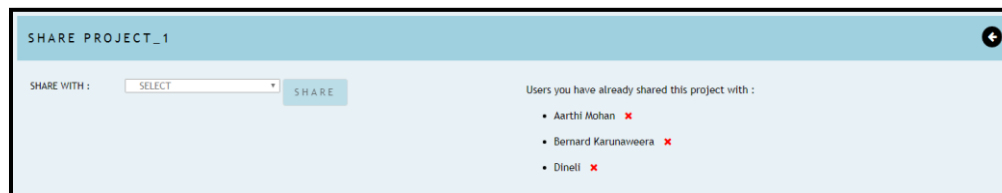
### **[project create – 1.6]**

## - SHARING A PROJECT

- Click on the  icon to get started. **[your projects view – 1.5]**
- The left section of the page will display all the system users whom you can share your project with. A record will get inserted to the shared\_user\_projects table when you share the project with a new user. **[share project – 1.8]**
- The right section of the page will list down the users whom you have already shared the project with.
- The  icon can be used to remove the user from project sharing. **[share project – 1.8]**



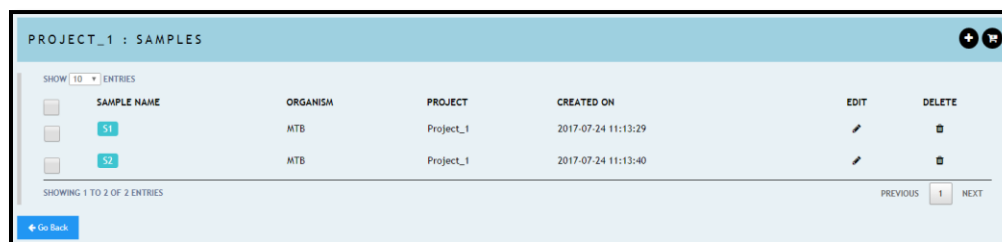
**[shared projects view – 1.7]**



**[share project – 1.8]**

## - SAMPLES [Main Menu → Projects → Samples]

- Click on the project name to access the samples view. **[samples view – 1.9]**
- Click on the Add button to create a new sample. Sample name should be always unique. **[sample create – 2.0]**
- Use edit/ delete options to make amendments to the sample or remove it from the system.
- When a sample is added, a record will get inserted to samples and project\_samples tables.



**[samples view – 1.9]**

ADD NEW SAMPLE

SAMPLE NAME :


ORGANISM :

SELECT



SAVE

CLEAR

[sample create – 2.0]



- **SEQUENCE FILES [Main Menu → Projects → Samples → Sequence Files]**
  - Click on the sample name to access the sequence files view. [seq. files view – 2.1]
  - Click on  to upload fastq files.
  - Validations: Only 2 files can be uploaded per sample and it should be paired-end files.
  - When a file gets uploaded, a new record gets inserted to the sequence\_files and sample\_sequence\_files tables.

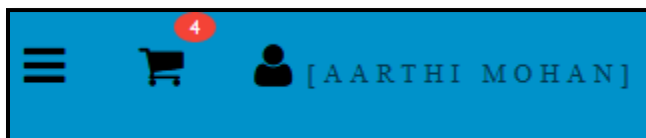
S1

FILE	CREATED ON	DELETE
← 08-5578_S1_L001_R2_001.fastq.gz	2017-08-01	
→ 08-5578_S1_L001_R1_001.fastq.gz	2017-08-04	

Go Back

[seq. files view – 2.1]

- **CART**
  - Samples with fastq files can be added to the cart using  button. [samples view – 1.9]. You can add samples from your own/shared projects to the cart.
  - The new addition will indicate from the cart size  and cart items can be view by clicking the same icon. [menu bar view – 2.2]
  - Cart items can be deleted individually by clicking on the cross mark in front of each item or can be deleted all at once by clicking the clear button on the top left corner. [cart view – 2.3]
  - Each new cart item will get recorded in jobs\_cart table.



[menu bar view – 2.2]

CLEAR

PROJECT A

08-5578 x

08-5923 x

PROJECT\_1

S1 x

S2 x

SELECT A PIPELINE

[cart view – 2.3]

#### - PIPELINE EXECUTION

- Once the cart items are finalized, click on the 'Select A Pipeline' button → Chose the pipeline you want to execute (currently there's only 1 pipeline available in the system) → Set the parameters according to your preference → Execute Pipeline. [pipeline execution – 2.4]
- For each new pipeline execution, a record will get inserted to the pipeline\_jobs table.

CLEAR

PROJECT A

08-5578 x

08-5923 x

PROJECT\_1

S1 x

S2 x

SELECT A PIPELINE

mTB\_pipeline

SNV detection pipeline for paired-end sequencing samples from Mycobacterium tuberculosis (H37Rv)

SELECT

[pipeline execution – 2.4]

SET PIPELINE PARAMETERS

PIPELINE NAME : mTB\_pipeline\_2017807

LB : CT00113

COEFFICIENT FOR DOWNGRADING : 50




MAX READS PER BAM : 2000






MINIMUM BASE QUALITY : 20

MINIMUM MAPPING QUALITY : 5

EXECUTE PIPELINE

## - ANALYSIS

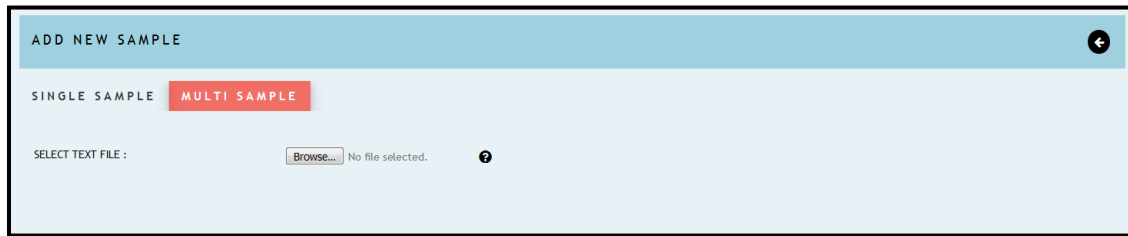
- This view will display the progress of the executed pipelines. **[analyses view – 2.5]**
- During the execution process, you can refresh the page time to time using  button, and the status field gets updated depending on the progress of the pipeline.
- If the pipeline is successful you will see a download button  where you can download the output.
- You can remove the records using the delete button  and all the input files/folders will get remove from the physical path as well as from the DB and a record will get inserted to the pipeline\_jobs\_history table in order keep track of the deleted record.


YOUR ANALYSES					
SHOW 10 ENTRIES					
STATE	NAME	TYPE	DATE CREATED	DOWNLOAD	DELETE
SUCCESSFUL	mTB_pipeline_2017705_001	mTB_pipeline	2017-07-05 16:56:32		
SUCCESSFUL	mTB_pipeline_2017705_001	mTB_pipeline	2017-07-05 14:54:19		
SUCCESSFUL	mTB_pipeline_2017705_001	mTB_pipeline	2017-07-05 14:08:57		
SUCCESSFUL	mTB_pipeline_2017705_001	mTB_pipeline	2017-07-05 13:15:06		
SUCCESSFUL	mTB_pipeline_2017705_002	mTB_pipeline	2017-07-05 13:17:34		
SUCCESSFUL	mTB_pipeline_2017705_003	mTB_pipeline	2017-07-05 14:14:27		
SUCCESSFUL	mTB_pipeline_2017705_diff_samples	mTB_pipeline	2017-07-05 16:10:32		
SUCCESSFUL	mTB_pipeline_2017706_01	mTB_pipeline	2017-07-06 15:52:31		
FAILED	mTB_pipeline_2017705_002	mTB_pipeline	2017-07-05 14:09:46	-	
SHOWING 1 TO 9 OF 9 ENTRIES				PREVIOUS	NEXT

**[analyses view – 2.5]**

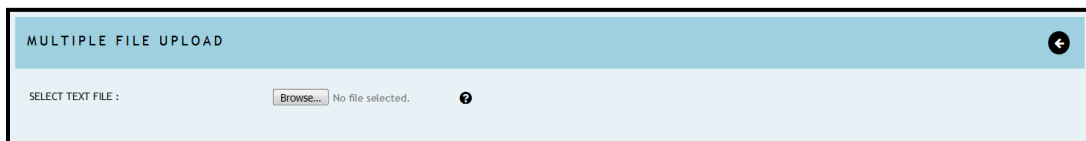
## - ADDED FEATURES

### 1. Multiple Sample Creation [Main Menu → Projects → Samples → → Select Multi Sample Tab]

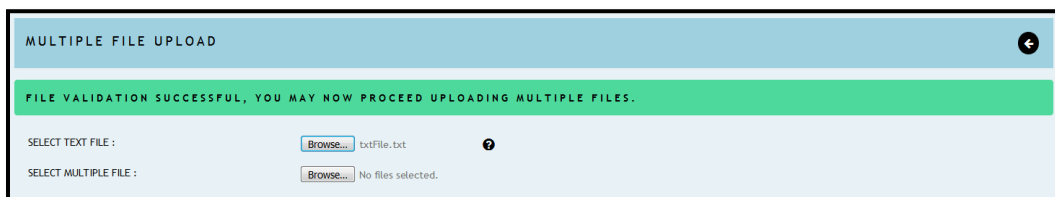


- Upload the text file according to the instructions provided in the help icon. 
- The new sample names shouldn't exist in the system for that particular user.

### 2. Bulk File Upload [Main Menu → Projects → Samples → ]



- Upload the text file according to the instructions provided in help icon.
- If it's successful you can proceed and upload the relevant fastq files.



### 3. Bulk File Download [Main Menu → Projects → Samples → ]

- Select the samples you need to download and click on the download button.
- To download all the samples you can simply click on the download button provided on the Projects page.
- Make sure all the download files are unique [no duplicate files] if not, this function will not work properly.

## ICON GALLERY



→ Main Menu



→ Cart



→ Logged in user



→ Logout



→ Add new record



→ Edit record



→ Delete record



→ Share project



→ Download results



→ Add samples to the cart



→ Go back



→ Upload files



→ Refresh page



→ View mail content



→ File download



→ Bulk file upload