BLIS – Kenya

Lab Administrator Guide

Rev 2.5

A joint initiative of C4G @ Georgia Tech, the CDC, @iLabAfrica – Strathmore University , Association of Public Health Laboratories (APHL) and participating countries

2015

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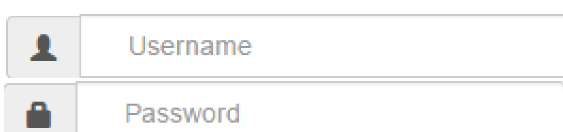
1.0 Getting started with BLIS

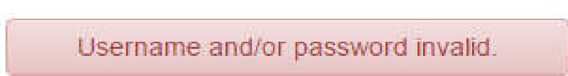
To start the Basic Laboratory Information System, you must click on the bookmark saved on the web browser e.g. Google Chrome or Mozilla Firefox. You will then see a page requesting login information. You must then enter your credentials to proceed.

1.1 Signing into BLIS

1. Fill in your username and password then click 



2. If you try to sign in while either of the username or password fields is blank, you will get errors as displayed below 

3. If you try to sign in with unmatching username or password, the following errors shall be displayed. 

If you have forgotten your password, kindly contact the lab-in-charge for help.

On successful sign-in, you should see such a page as this. The highlighted section shows the person signed in.

2.0 Lab Configuration

The lab configuration section allows you to change how reports are generated, load drivers and define equipment for instrumentation, what patient data is collected, referral facilities, as well as various other settings.

The various pages of this section are explained in the following pages:

2.1 Instrumentation

2.1.1 Conceptualization

How do we dynamically add new functionality to handle new analyzers? Using a *plugin* facility.

Can *BLIS* fetch results from different analyzers of the same type? e.g. CELTAC1 in Ward 1 and CELTAC2 in Ward 2.

Yes! That's why we have 2 buttons.

- 

is for adding the driver (common to all machines of the same type).
- 

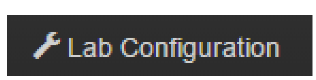
is for specifying the physical location of the machine.

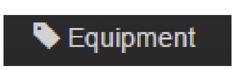
2.1.2 Implementation

BLIS interfaces with the connected equipment courtesy of a class file that extends theAbstractInstrumentor class which in turn implements the InstrumentorInterface. A sample file is provided (*CeltacWBC.php*) showing the format in which BLIS expects the result of the getResult() method.

On importation, plugin files a copied to the app/kblis/plugins/ directory. From there, they can be loaded into the application via psr-4.

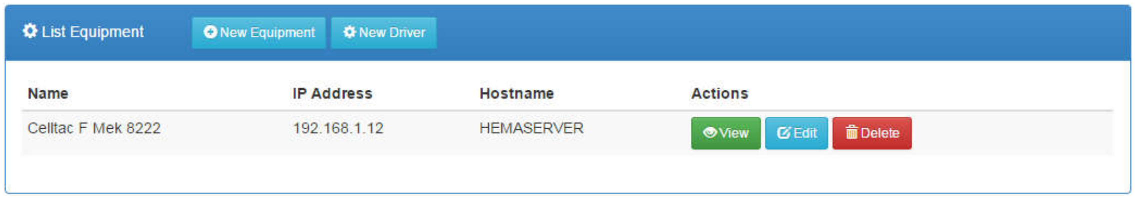
2.1.3 Instrumentation user interface

1. This can be accessed from the 

link, then click the 

sub menu on the navigation menu.

2. The default page shows a list of all Equipment already configured for use.



2.1.4 Configuring equipment drivers

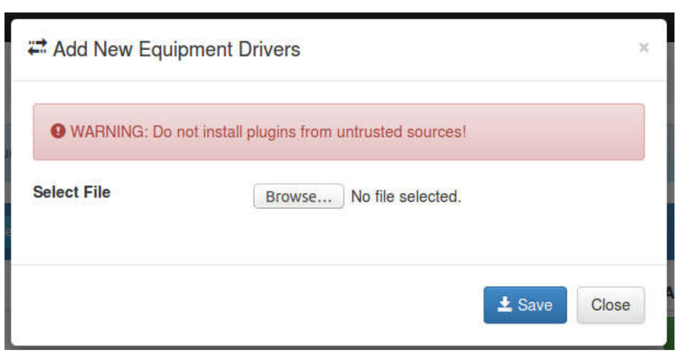
Driver files tell *kBLIS* how to access test information from analyzers. A driver implementation should publish following information:

- the equipment name
- a unique identification code
- a description of the equipment
- the medical tests it can perform.

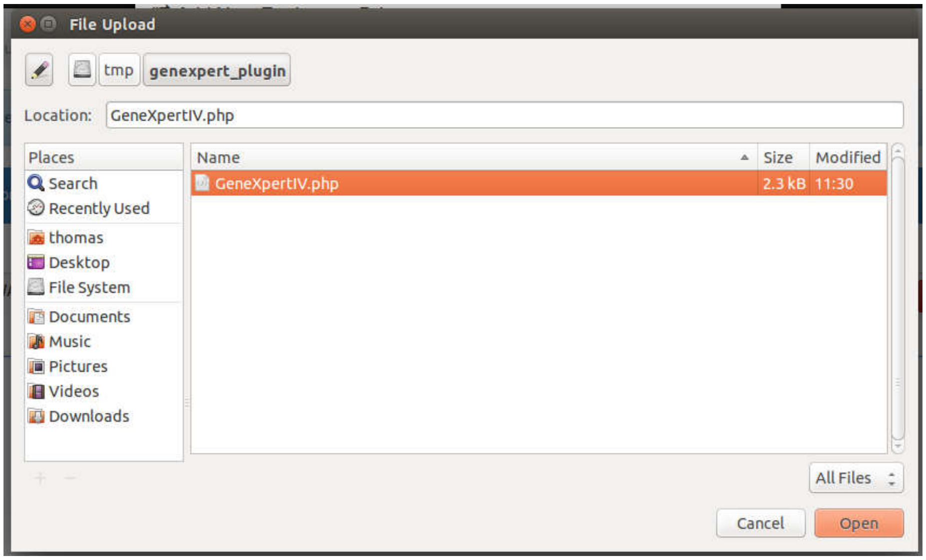
To import a driver file,

i. Click on the New Driver button on the Equipment List page.

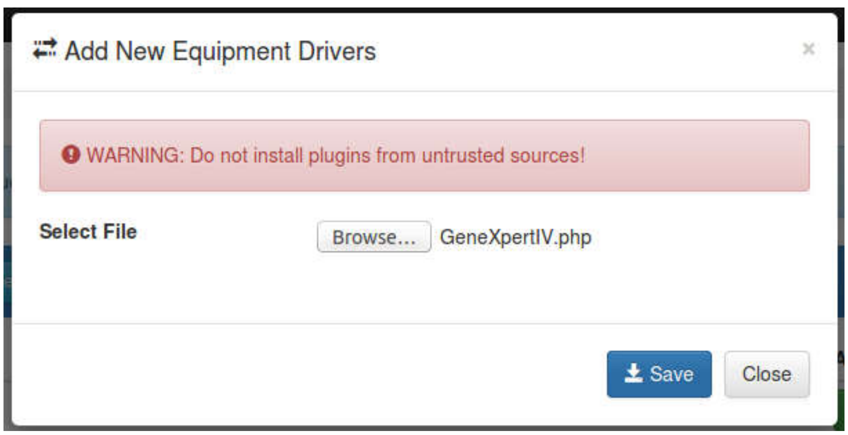
ii. In the dialog box that appears, click the Browse... **or** Choose File button to open a files dialog box



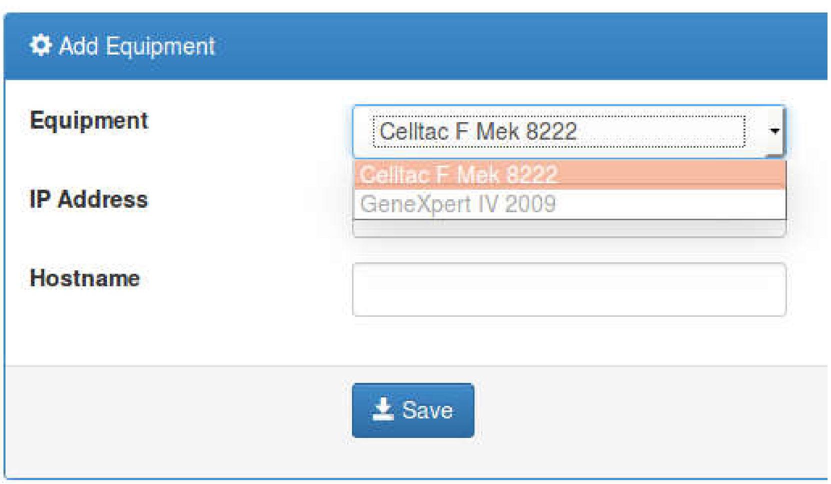
iii. Select a driver file



iv. Save the driver file



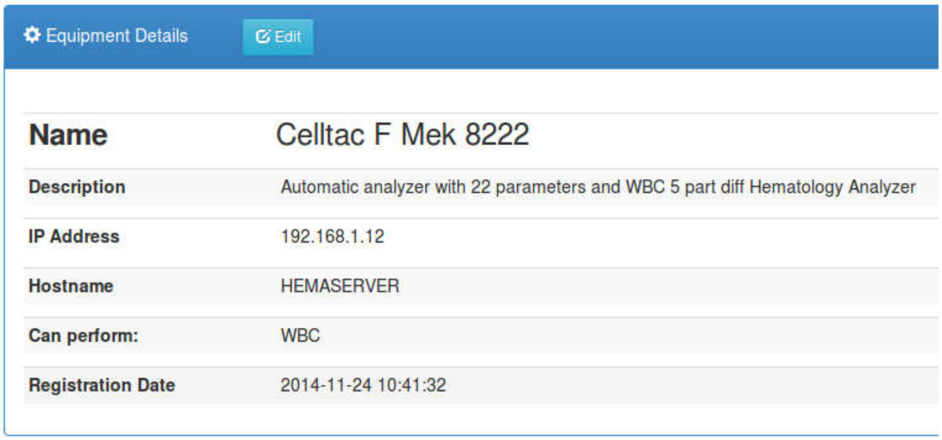
The new driver will now be listed as one of the available drivers.



2.1.5 View equipment details

Clicking the 

button displays the details of the listed equipment.

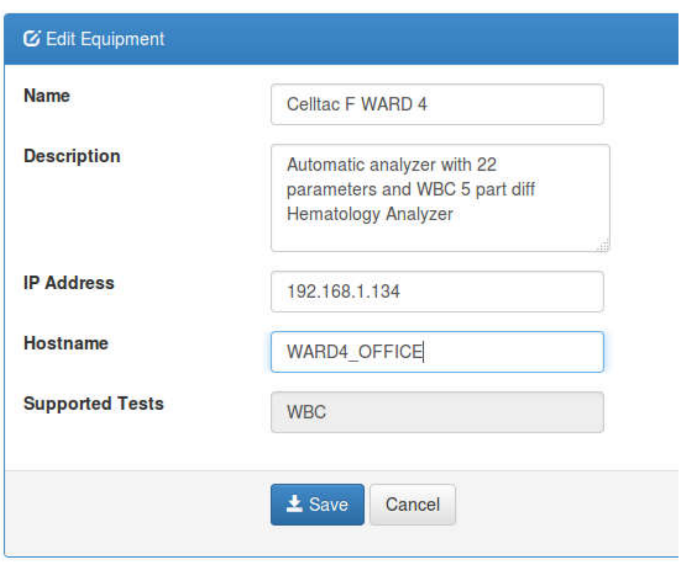


2.1.6 Update equipment details

The 

button allows for changing the details of the listed equipment including:

- name
- description
- ip address
- host name



The 

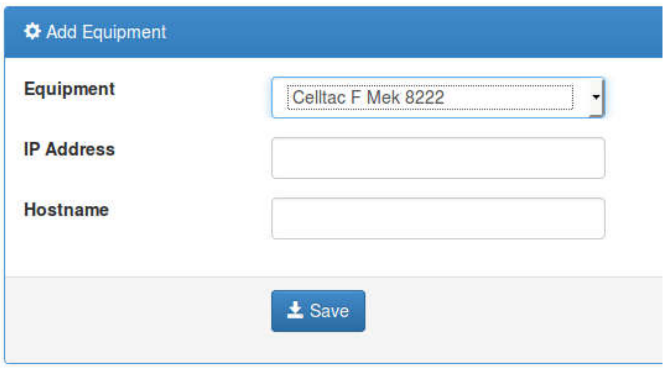
field depends on the equipment driver implementation thus is not editable.

2.1.7 Adding new equipment

In this step, the user defines the location of a particular machine by specifying the IP address and optionally the hostname to which the machine is attached.

1. The process is initiated by clicking on 

from the Equipment List page.



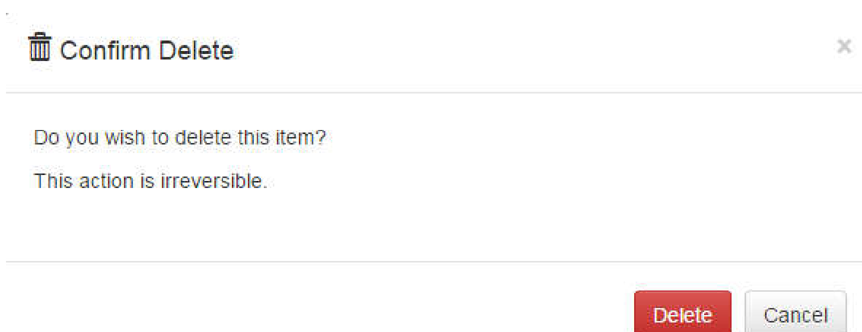
2. Click the 

button to save the details.

2.1.8 Deleting existing equipment

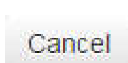
1. Click the 

button on the equipment list page for corresponding equipment



record

2. Click the 

button on the pop-up if you are sure to delete, otherwise, click the 

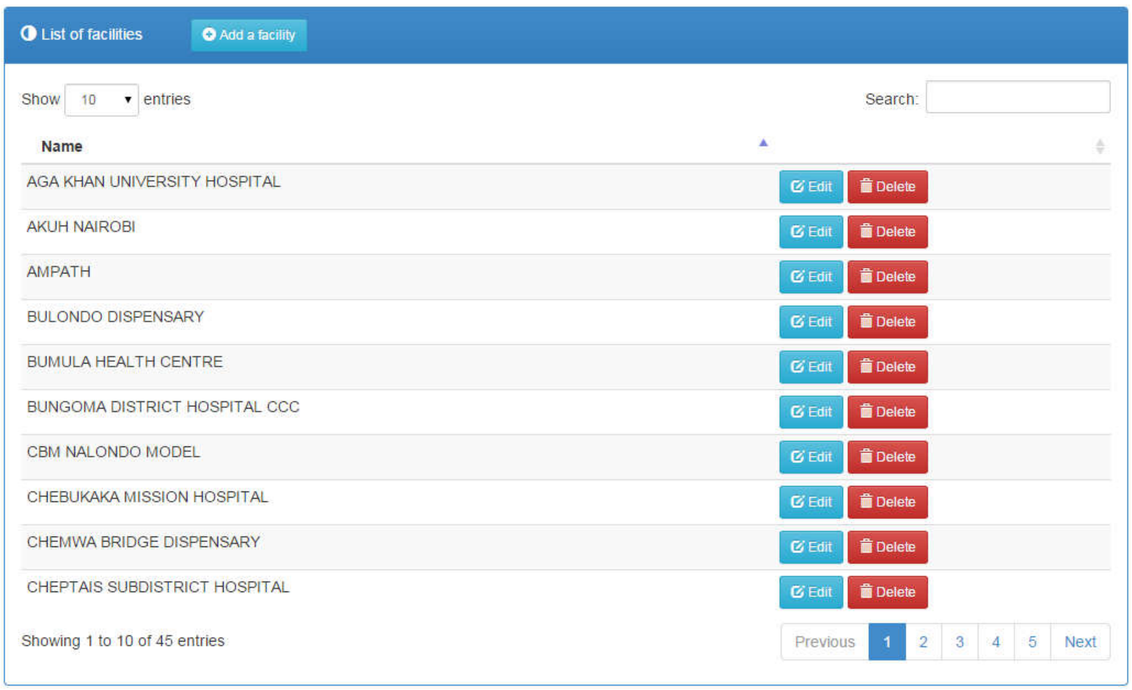
button or icon to dismiss.

2.2 Facilities

Allows for the definition of other health facilities which do referrals to the lab or we refer tests to. Most are satellite facilities.

2.2.1 Listing existing health facilities

1. Click the Facilities link on the navigation menu.
2. The list of facilities will be loaded as shown below.



List of facilities   Add a facility

Show 10 entries   Search:

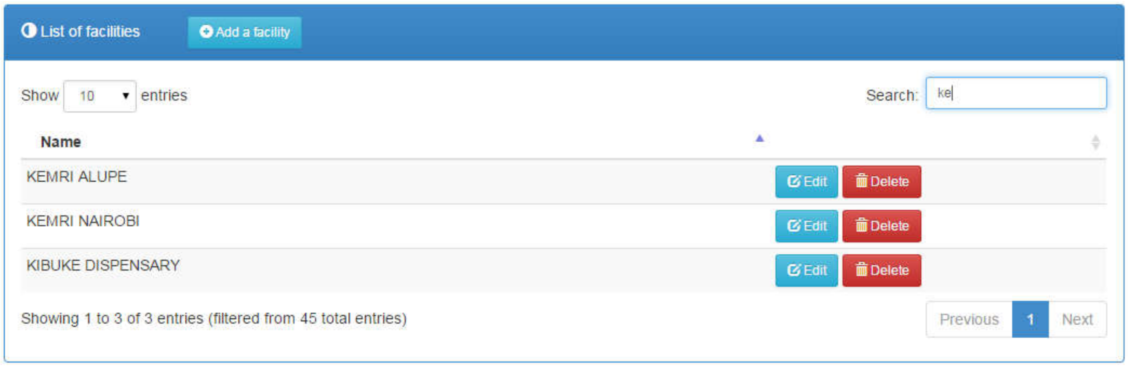
Name	
AGA KHAN UNIVERSITY HOSPITAL	Edit Delete
AKUH NAIROBI	Edit Delete
AMPATH	Edit Delete
BULONDO DISPENSARY	Edit Delete
BUMULA HEALTH CENTRE	Edit Delete
BUNGOMA DISTRICT HOSPITAL CCC	Edit Delete
CBM NALONDO MODEL	Edit Delete
CHEBUKAKA MISSION HOSPITAL	Edit Delete
CHEMWA BRIDGE DISPENSARY	Edit Delete
CHEPTAIS SUBDISTRICT HOSPITAL	Edit Delete

Showing 1 to 10 of 45 entries   Previous 1 2 3 4 5 Next

2.2.2 Searching for a facility

1. Begin typing the name of the facility in the search filed provided

2. The list will automatically be loaded with matching values e.g.



2.2.3 Adding a new facility

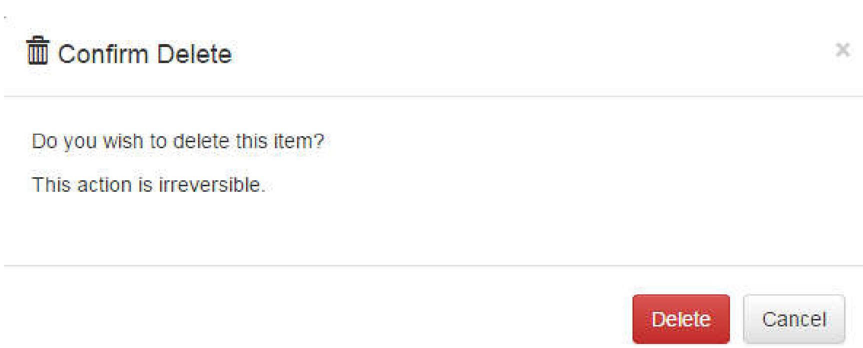
1. Click the Add a facility button to load the new facility details form.
2. Complete the form as appropriate.
3. Click the Save button to save the details.

2.2.4 Updating a facility's details

1. Click the Edit button of the corresponding record to open a form with pre-filled values.
2. Make the necessary modifications to the details presented.
3. Click the Save button to save the details.

2.2.5 Deleting a facility

1. From the list of facilities, click the Delete button of the corresponding record



2. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

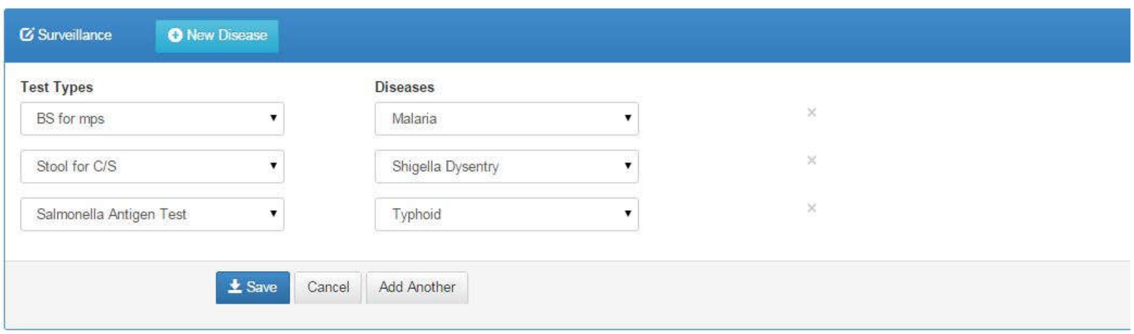
2.3 Surveillance

Allows for the definition of the different test parameters for a particular disease available in the system and adding new diseases.

2.3.1 Listing existing surveillances

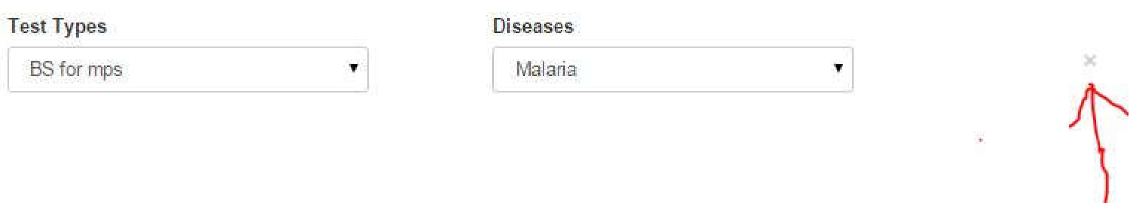
1. Click the Surveillance link on the navigation menu.

2. The list of tests and diseases will be loaded as shown below.



2.3.2 Removing a test and its disease

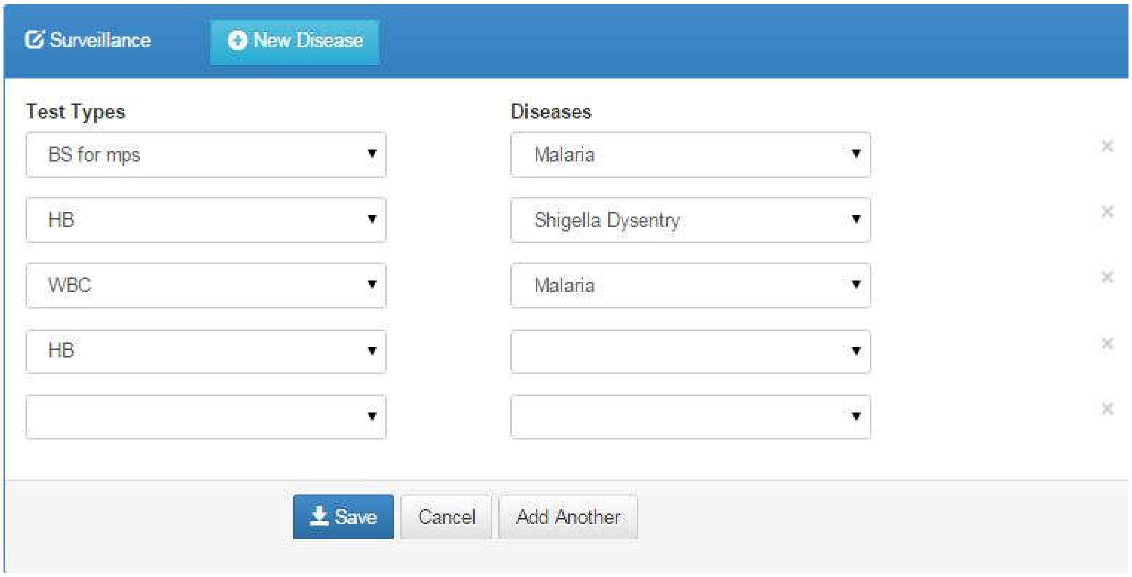
Click the X button as shown below



2.3.3 Adding a new configuring a new test and its disease for the surveillance

1. Click the Add Another button to load drop down combo boxes where you will be able to select test and disease alongside one another.

2. Complete the form as appropriate.

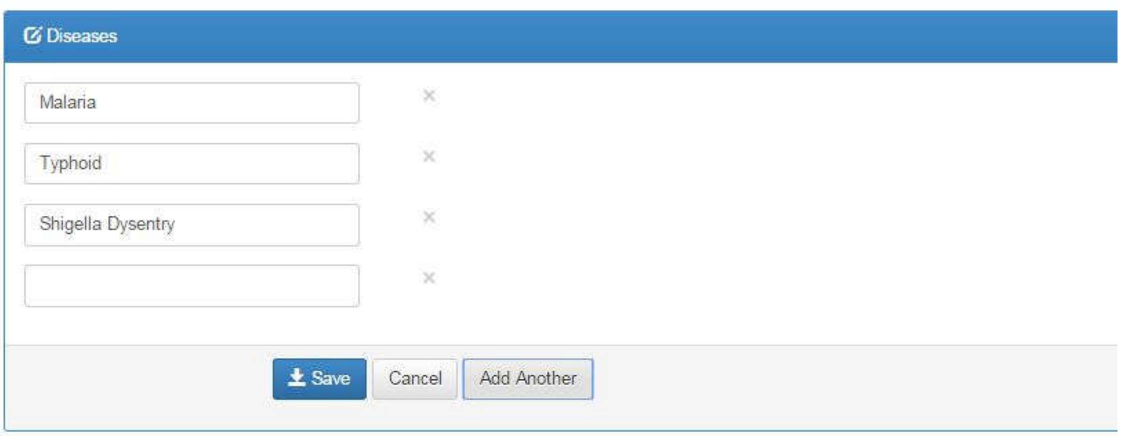


3. Click the  button to save the details.

2.3.3 Adding a new disease for the surveillance

1. Click the  button to load a text field.

2. Complete the field as appropriate.



3. Click the  button to save the details.

3.3.2 Removing a disease

Click the X button as shown below

3.0 Test Catalog

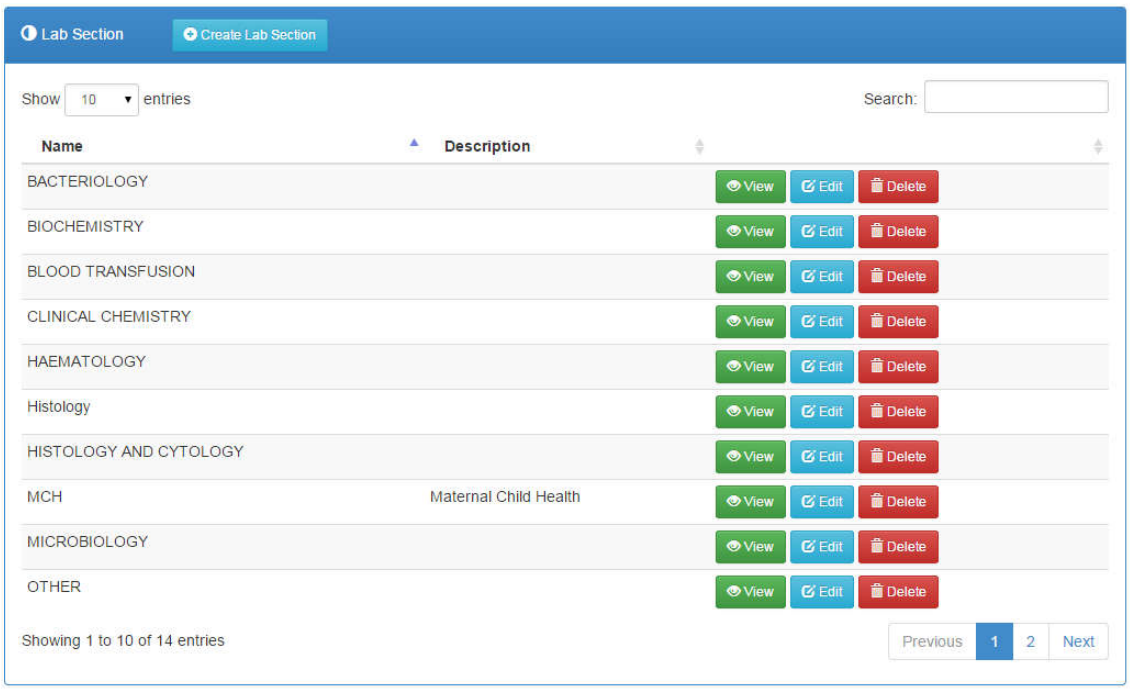
3.1 Lab Sections

3.1.1 Listing all lab sections

1. Click the 

link on the navigation bar

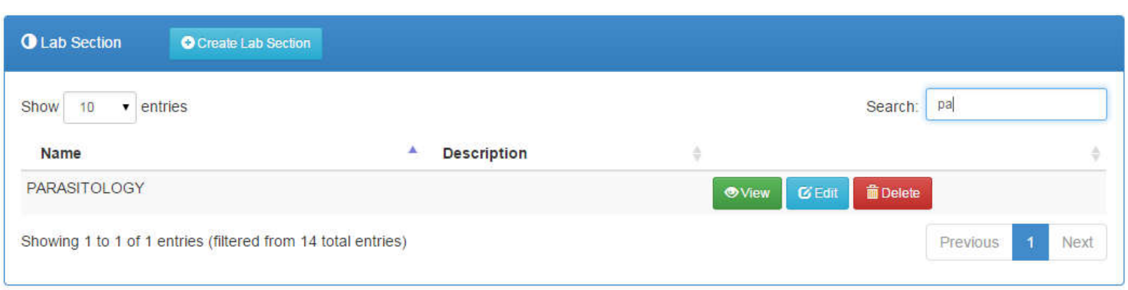
2. The lab sections will be loaded



3.1.2 Searching for a lab section

1. Simply type the name of the lab section on the search field

2. The list will automatically be loaded with matching values e.g.



3.1.3 Viewing a lab section

1. Click the 

button of the corresponding record.

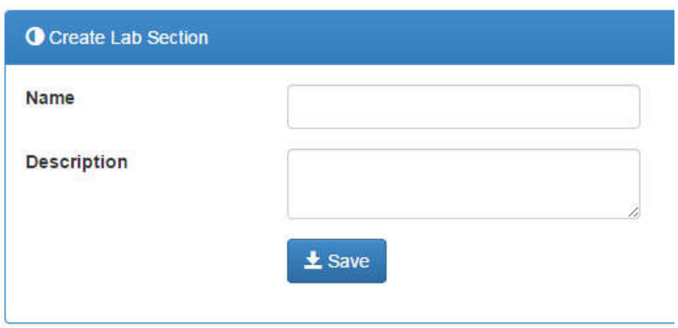
2. The details shall be loaded on to a panel e.g.

3.1.4 Adding a new lab section

1. On the list of lab sections, click the 

button.

2. Complete the details on the provided form



3. Click the 

button to save the lab section to the system

3.1.5 Updating lab section details

1. Click the 

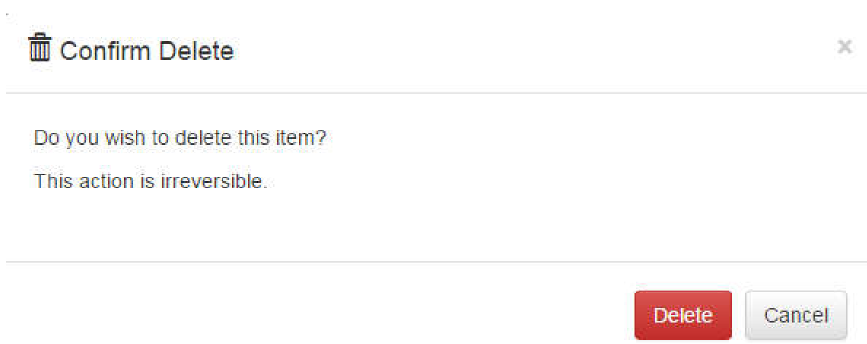
button of the corresponding record to open a form with pre-filled values

2. Make the necessary modifications

3. Click the Save button to save the changes

3.1.6 Deleting a lab section

1. Click the Delete button of the corresponding record.



2. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

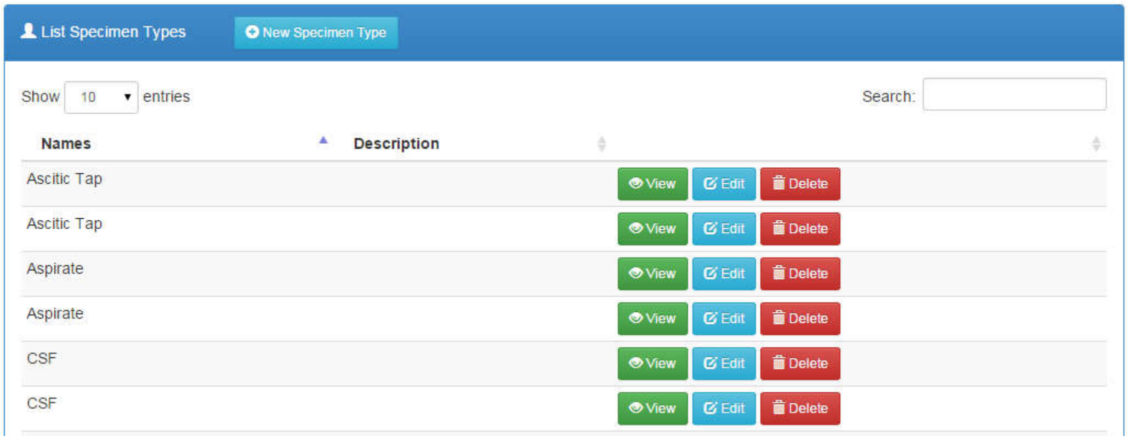
3.2 Specimen Types

Allows you to set the specimen types as appropriate for your laboratory.

3.2.1 Listing available specimen types

1. Click the Specimen Types link on the navigation menu.

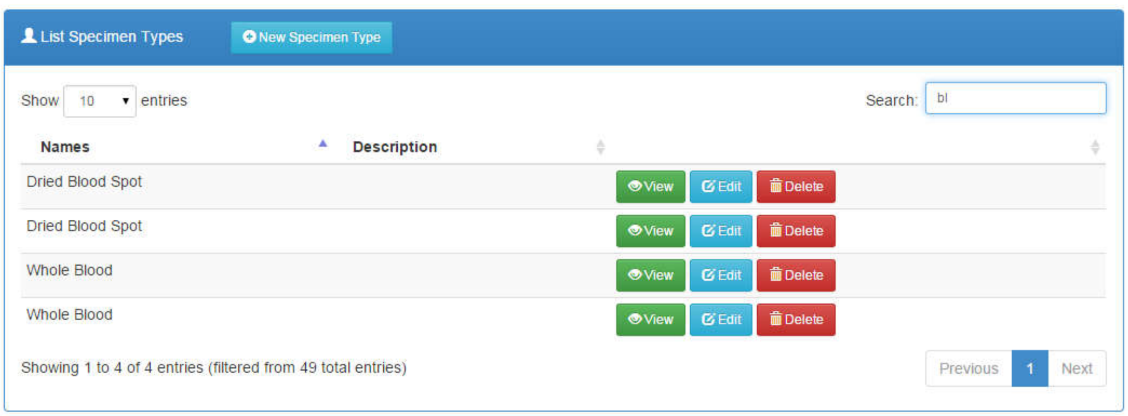
2. A list of available specimen types will be loaded



3.2.2 Searching for a specimen type

1. Start typing the specimen type on the search field

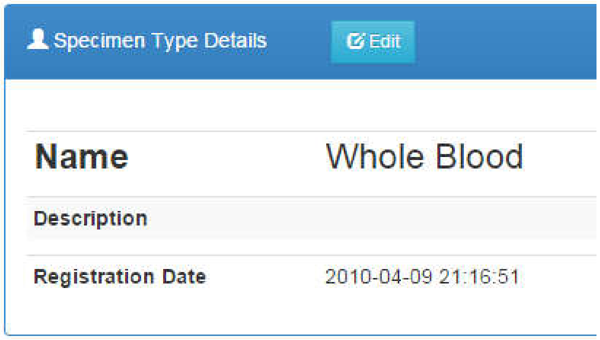
2. The list will automatically be loaded with matching values e.g.



3.2.3 Viewing a specimen type

1. Click the  button of the corresponding specimen type.

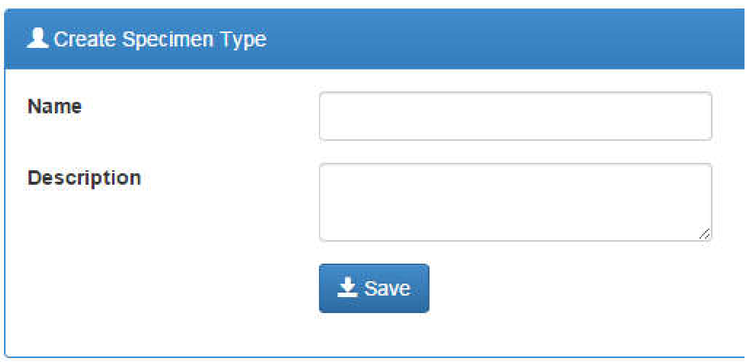
2. The details shall be loaded on to a panel e.g.



3.2.4 Adding a new specimen type

1. On the list of specimen types, click the New Specimen Type button.

2. Complete the details on the provided form

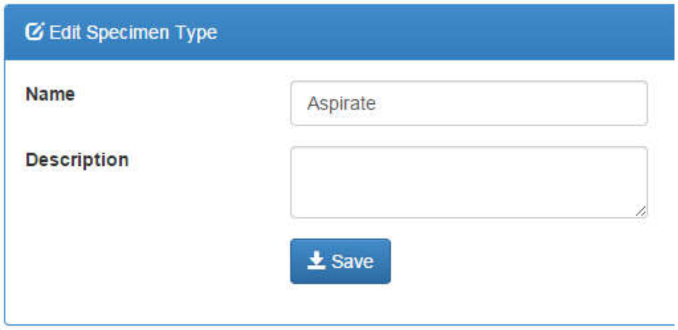


3. Click the Save button to save the specimen type to the system

3.2.5 Updating specimen type details

1. Click the Edit button of the corresponding record to open a form with pre-filled values

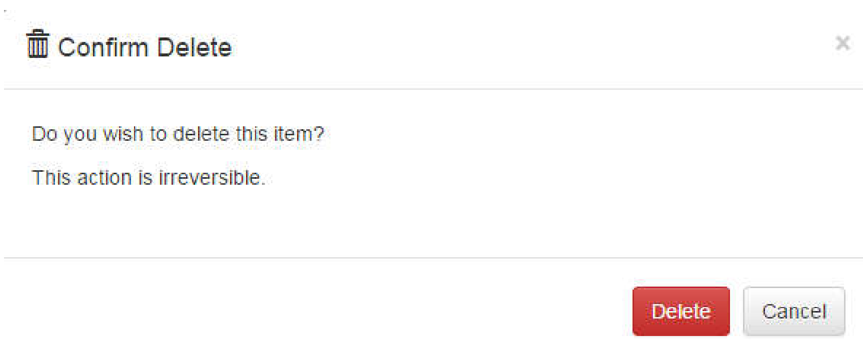
2. Make the necessary modifications



3. Click the Save button to save the changes

3.2.6 Deleting a specimen type

1. Click the Delete button of the corresponding record.



2. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

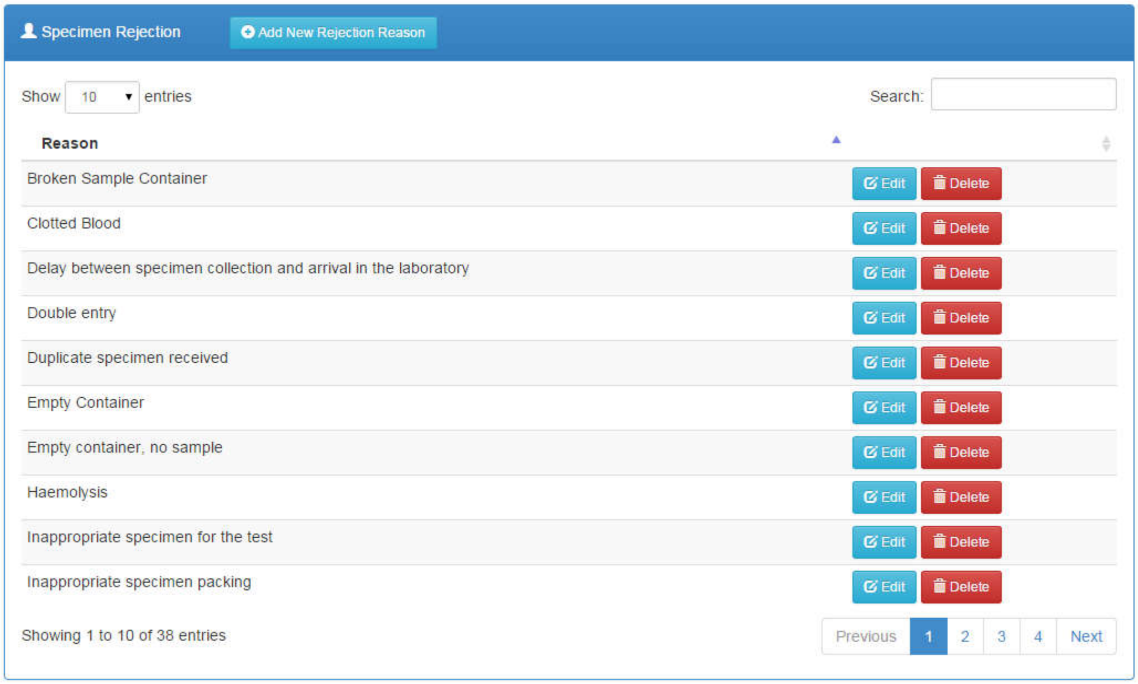
3.3 Specimen Rejection

Allows for definition of the various reasons for specimen rejection as applicable to the laboratory

3.3.1 Listing all specimen rejection reasons

1. Click the Specimen Rejection link on the navigation menu.

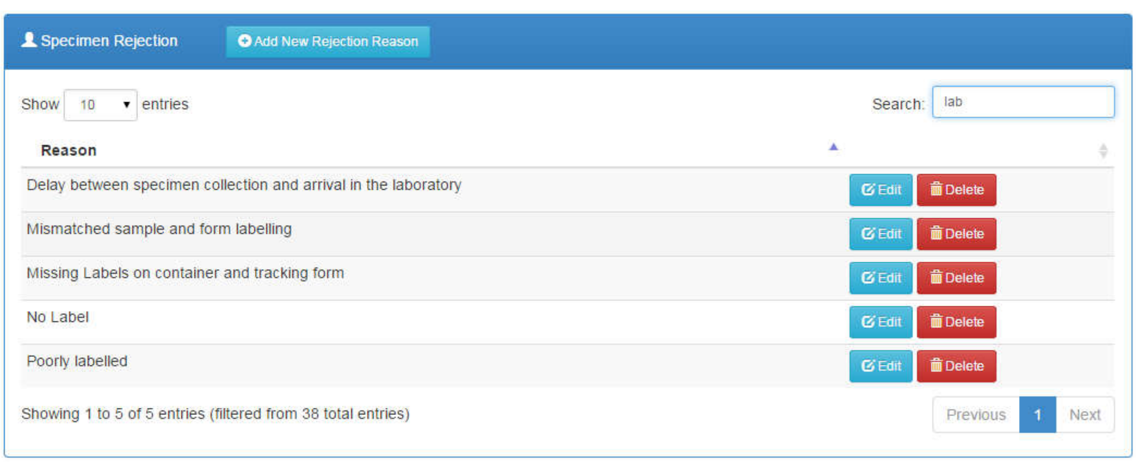
2. The list of specimen rejection reasons appears in a panel as shown.



3.3.2 Searching for a specimen type

1. Begin typing the rejection reason on the search field

2. The list will automatically be loaded with matching values e.g.

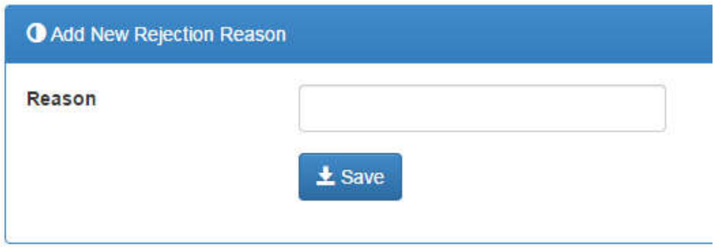


3.3.3 Adding a new rejection reason

1. Click the 

button

2. Complete the form



details

3. Click the 

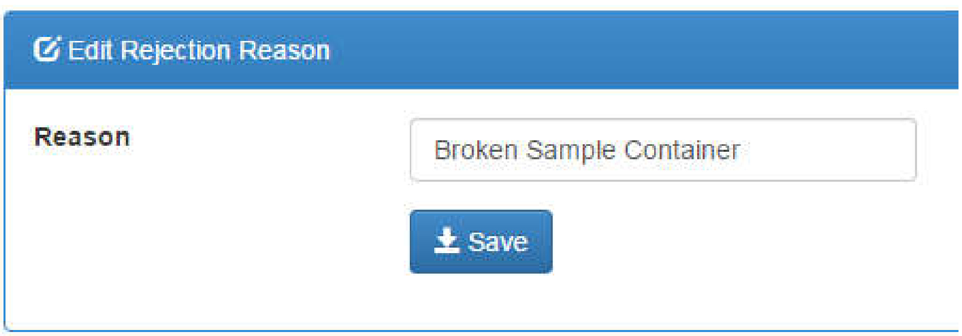
button to save the reason.

3.3.4 Updating a rejection reason details

1. Click the 

button of the corresponding record to open a form with pre-filled values.

2. Make the necessary modifications



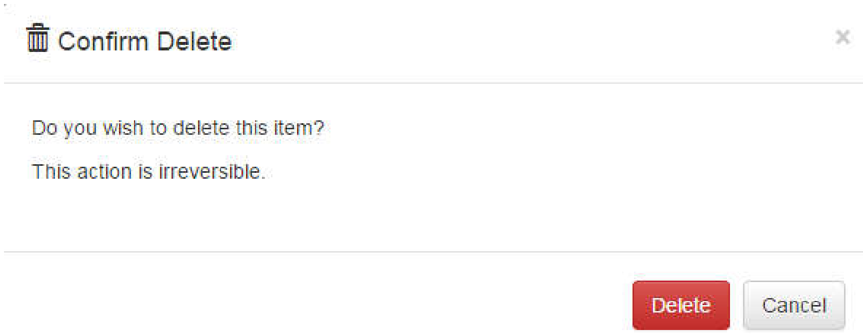
3. Click the 

button to save the changes

3.3.5 Deleting a rejection reason

1. Click the 

button of the corresponding record.



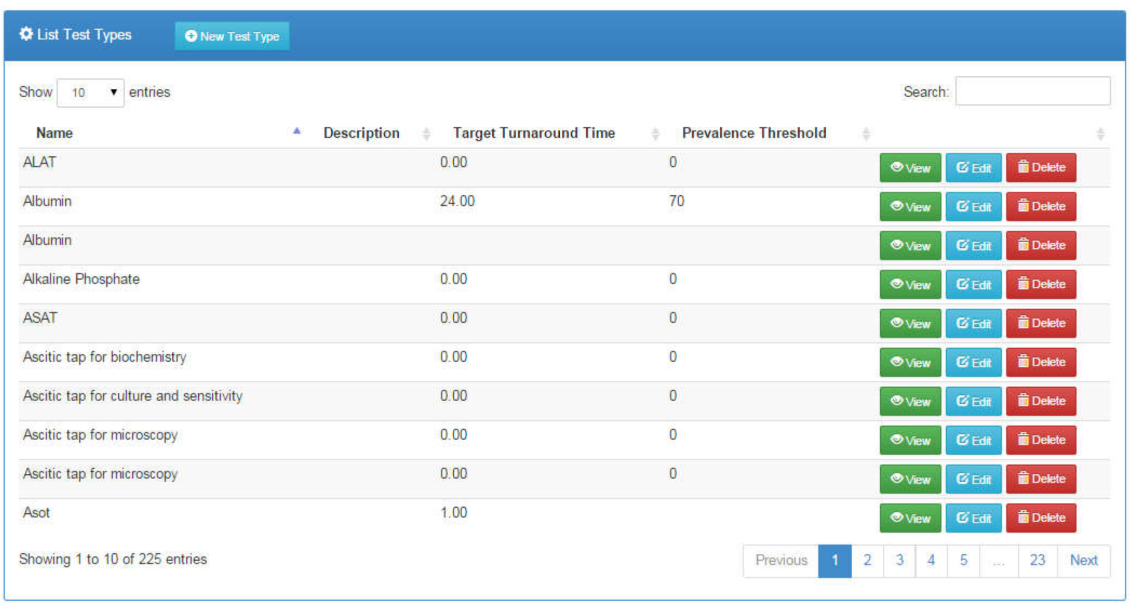
2. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

3.4 Test Types

Allows you to set the specimen types as appropriate for your laboratory.

3.4.1 Listing all test types

1. Click the Test Types link on the navigation bar



List Test Types | New Test Type

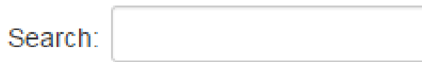
Show 10 entries | Search:

Name	Description	Target Turnaround Time	Prevalence Threshold	
ALAT		0.00	0	View Edit Delete
Albumin		24.00	70	View Edit Delete
Albumin				View Edit Delete
Alkaline Phosphate		0.00	0	View Edit Delete
ASAT		0.00	0	View Edit Delete
Ascitic tap for biochemistry		0.00	0	View Edit Delete
Ascitic tap for culture and sensitivity		0.00	0	View Edit Delete
Ascitic tap for microscopy		0.00	0	View Edit Delete
Ascitic tap for microscopy		0.00	0	View Edit Delete
Asot		1.00		View Edit Delete

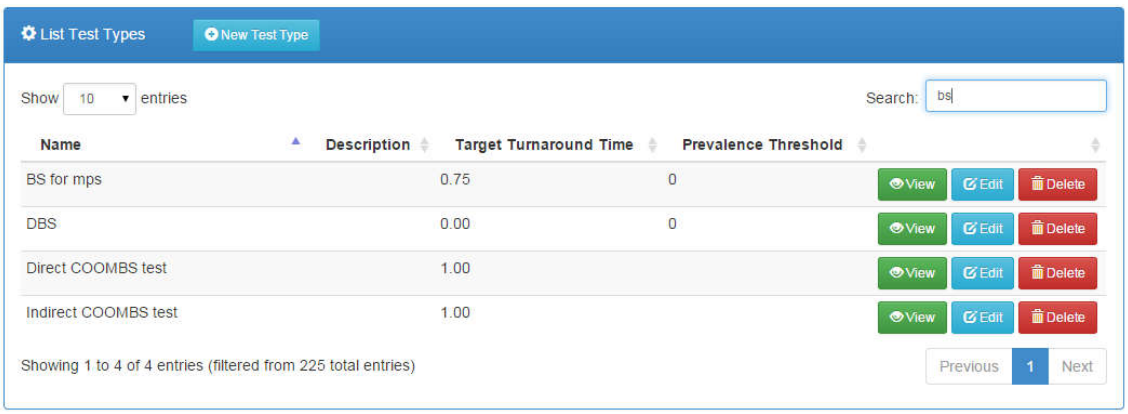
Showing 1 to 10 of 225 entries | Previous 1 2 3 4 5 ... 23 Next

3.4.2 Searching for a test type

1. Begin typing the test type name on the search field



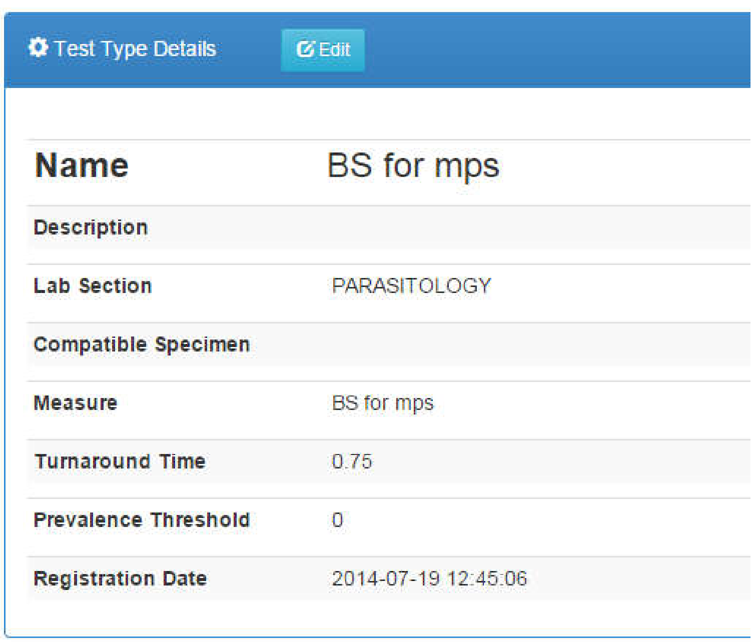
2. The list will automatically be loaded with matching values e.g.



3.4.3 Viewing a test type

1. Click the  button of the specific test type

2. The details shall be loaded on to a panel e.g.



3.4.4 Adding a new test type

1. On the list of test types, click the 

button.

2. Complete the details on the provided form

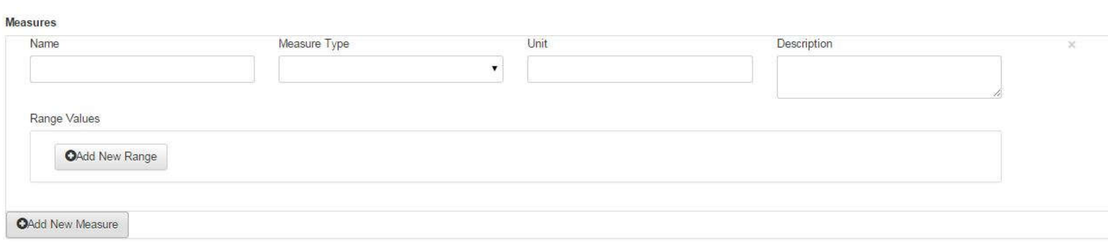
3. Select the applicable specimen types

Select Specimen Types

Ascitic Tap	Ascitic Tap	Aspirate	Aspirate
CSF	CSF	DBS	Dried Blood Spot
Dried Blood Spot	High Vaginal Swab	High Vaginal Swab	Nasal Swab
Nasal Swab	Plasma	Plasma	Plasma EDTA
Plasma EDTA	Pleural Tap	Pleural Tap	Pus Swab
Pus Swab	Rectal Swab	Rectal Swab	Semen
Semen	Serum	Serum	Skin
Skin	SMEARS	Sputum	Sputum

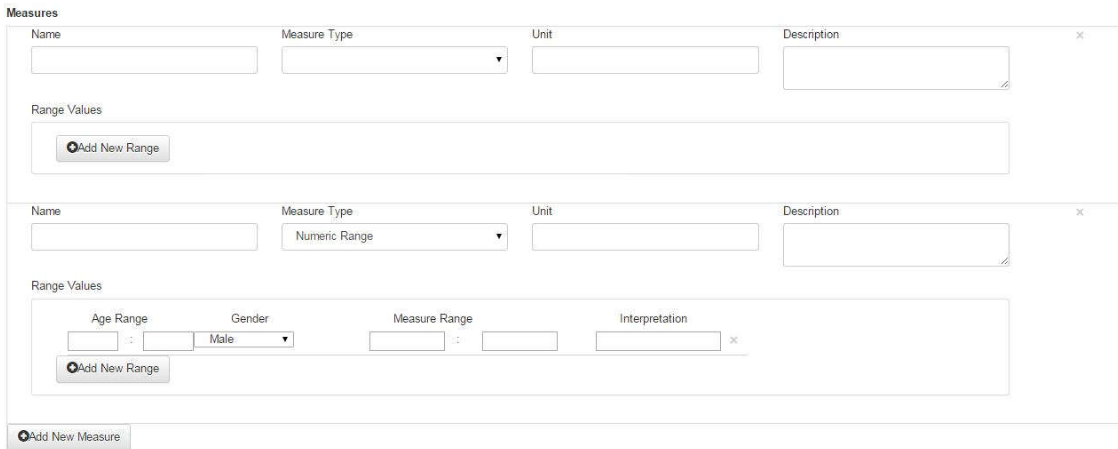
4. Add the applicable measures for the test type by clicking 

which will populate the form below

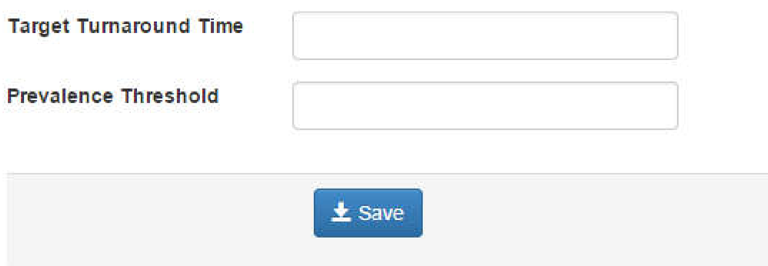


5. Add applicable range for the measure by clicking 

which will populate the form below



6. Complete the details such as expected turnaround time



7. Check the show culture worksheet button to select the organisms as shown below

8. Click the 

button to save the specimen type to the system

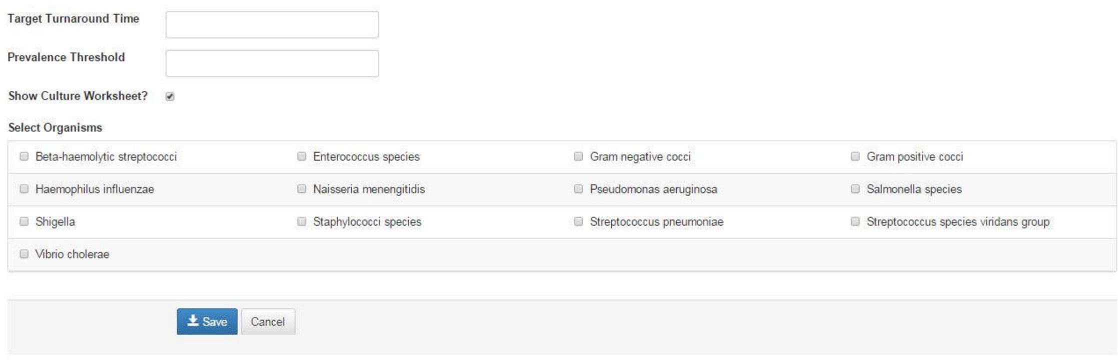
3.4.5 Updating test type details

1. Click the 

button to open a form with pre-filled values.

2. Make the necessary modifications such as the lab section, specimen types, measures and so forth.

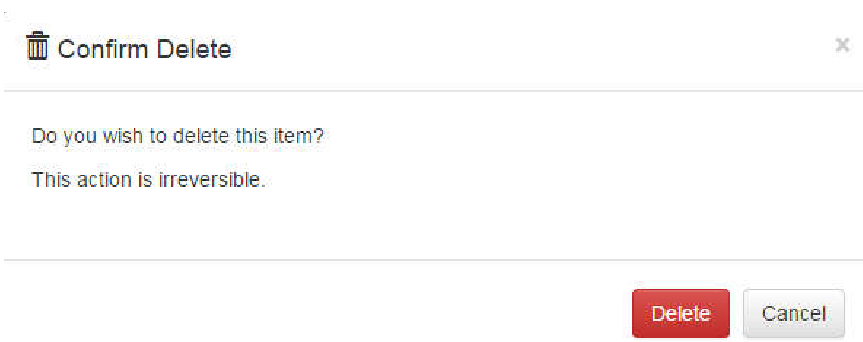
3. During editing, Culture worksheet can be shown by checking the box Show Culture Worksheet? . After the box has been checked the following details will be added in the test type editing interface as shown below where you will able to select the organisms



4. Click the Save button to save the changes.

3.4.6 Deleting a test type

1. Click the Delete button of an entry



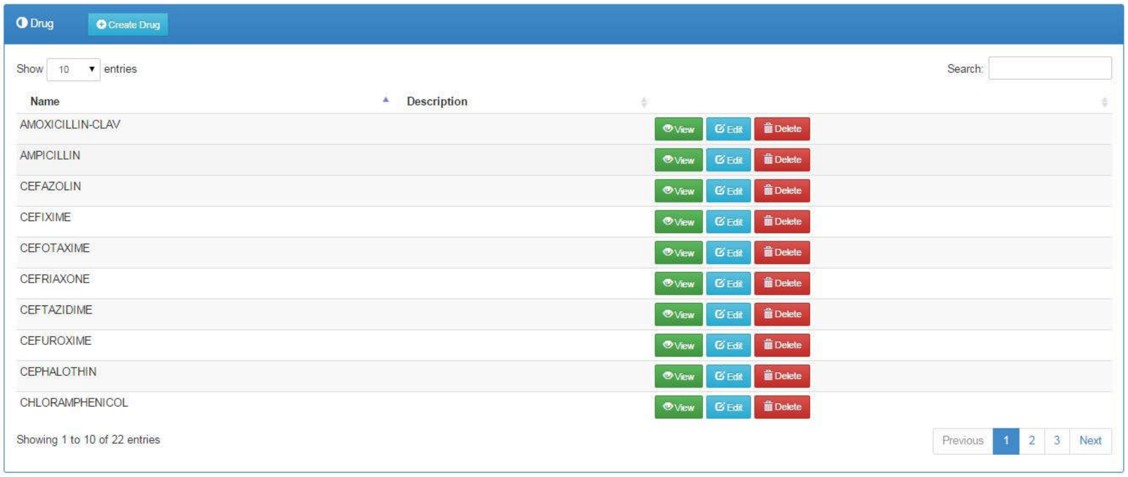
2. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

3.5 Drugs

Allows you to create drugs as appropriate for your laboratory.

3.5.1 Listing all added drugs

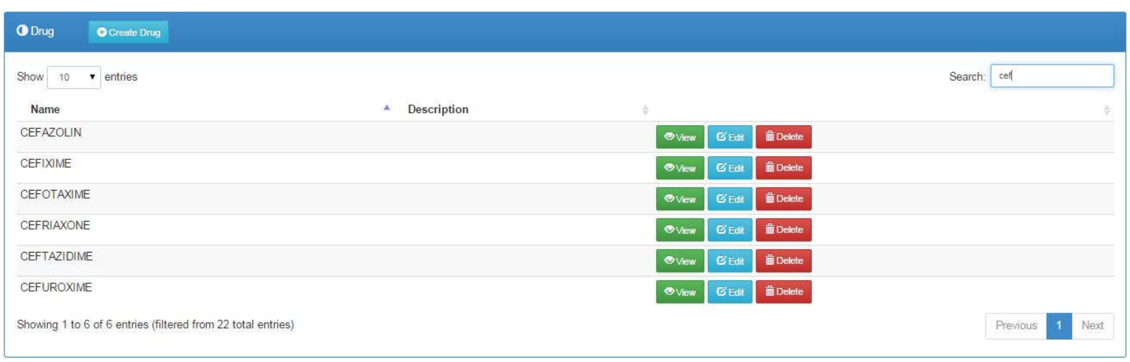
1. Click the  link on the navigation bar



3.5.2 Searching for a drug

1. Begin typing the drug name on the search field

2. The list will automatically be loaded with matching values e.g.

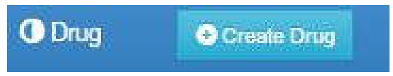


3.5.3 Viewing a Drug

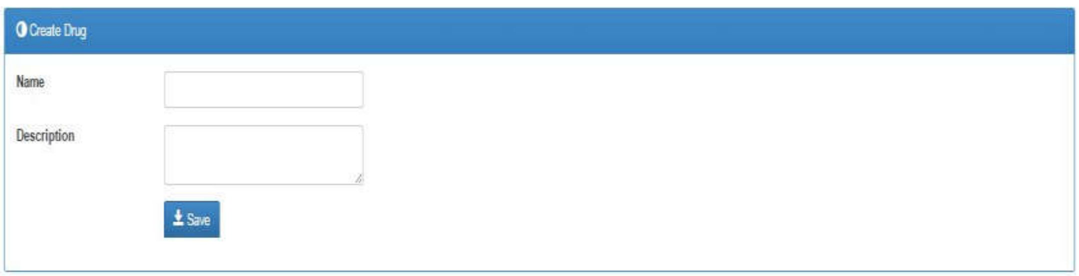
1. Click the  button of the specific test type

2. The details shall be loaded on to a panel e.g.

3.5.4 Adding a new drug

1. On the list of drugs, click the  button.

2. Complete the details on the provided form



1. Click the  button to save the drug to the system

3.5.5 Updating drug details

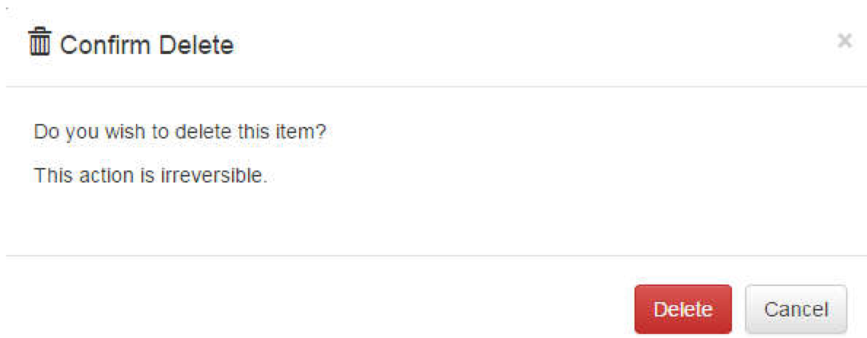
1. Click the  button to open a form with pre-filled values.

2. Make the necessary modifications such as the drug name, description and so forth.

3. Click the  button to save the changes.

3.5.6 Deleting a drug

1. Click the  button of an entry



2. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

3.6 Organisms

Allows you to create drugs as appropriate for your laboratory.

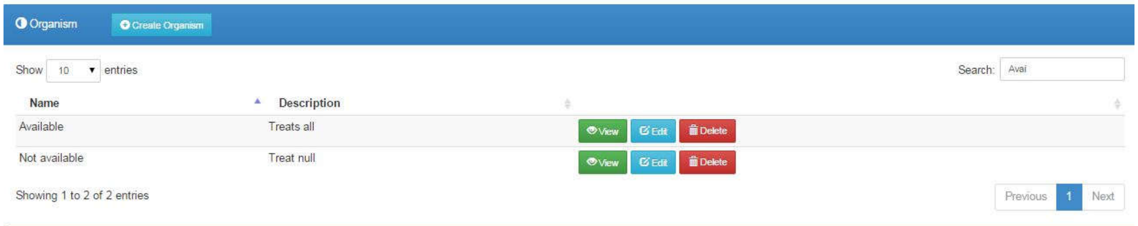
3.6.1 Listing all organisms

1. Click the Organisms link on the navigation bar

3.6.2 Searching for an organism

1. Begin typing the organism name on the search field

2. The list will automatically be loaded with matching values e.g.

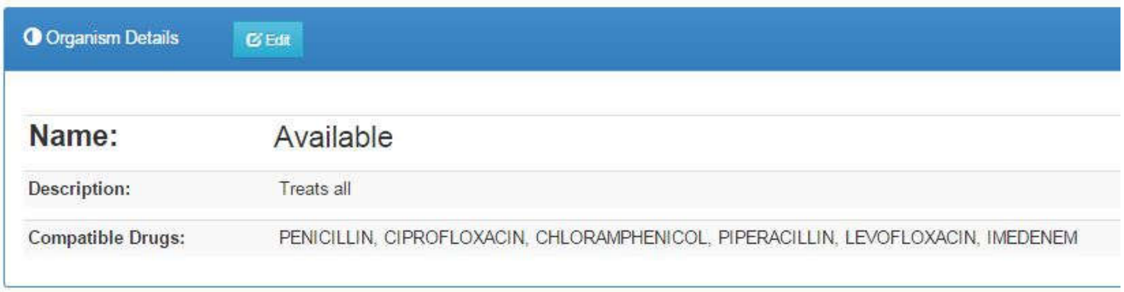


3.6.3 Viewing an organism

1. Click the 

button of the specific test type

2. The details shall be loaded on to a panel e.g.

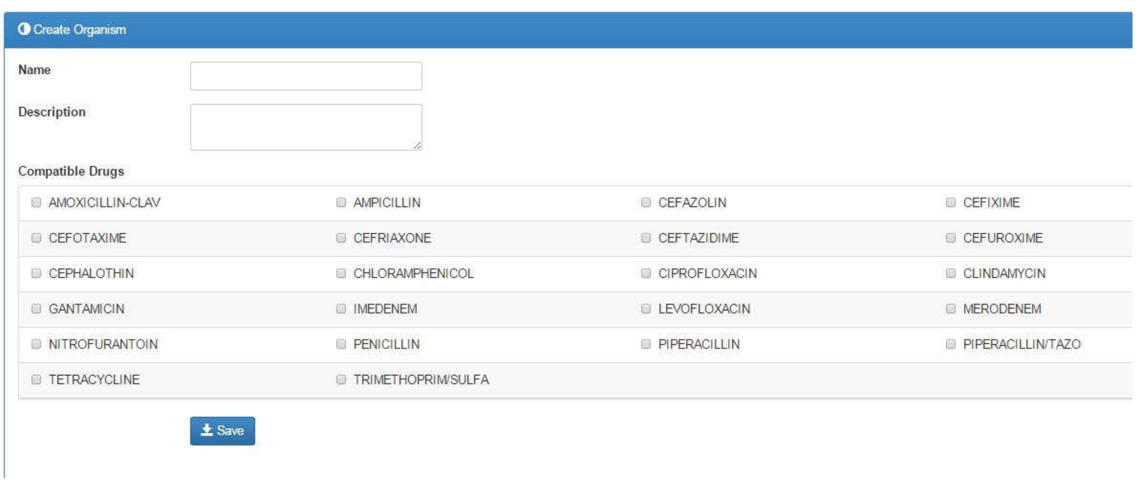


3.6.4 Adding a new organism

1. On the list of drugs, click the 

button.

2. Complete the details on the provided form



3. Select the applicable compatible drugs

Compatible Drugs

AMOXICILLIN-CLAV	AMPICILLIN	CEFAZOLIN	CEFIXIME
CEFOTAXIME	CEFRIAXONE	CEFTAZIDIME	CEFUROXIME
CEPHALOTHIN	CHLORAMPHENICOL	CIPROFLOXACIN	CLINDAMYCIN
GANTAMICIN	IMEDENEM	LEVOFLOXACIN	MERODENEM
NITROFURANTOIN	PENICILLIN	PIPERACILLIN	PIPERACILLIN/TAZO
TETRACYCLINE	TRIMETHOPRIM/SULFA		

2. Click the Save button to save the organism to the system

3.6.5 Updating organism details

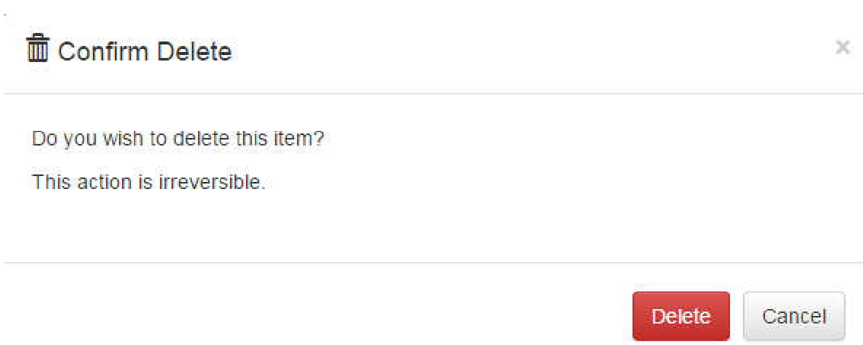
1. Click the Edit button to open a form with pre-filled values.

2. Make the necessary modifications such as the organism name, description, compatible drugs and so forth.

3. Click the Save button to save the changes.

3.6.6 Deleting a organism

1. Click the Delete button of an entry



2. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

4.0 Reports

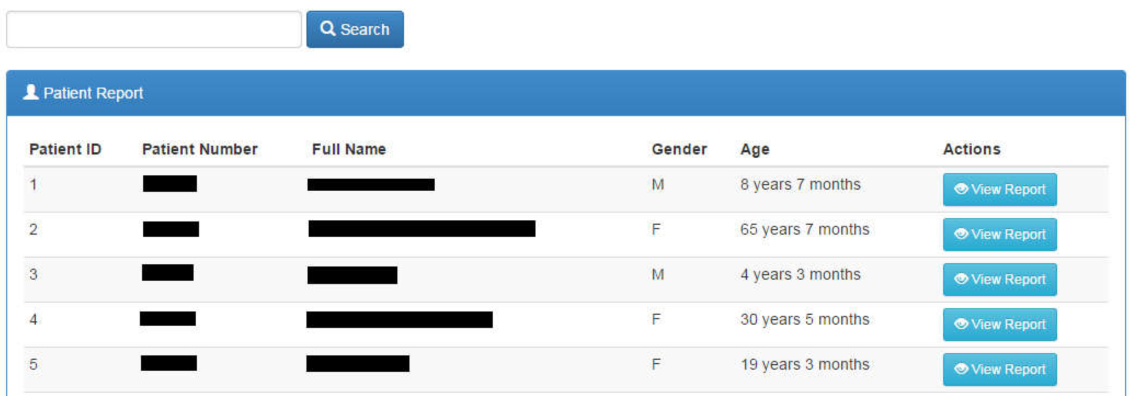
1. Click on the **Reports** link to open the reports module.

4.1 Daily Reports

The Patient Report and Daily Log should be run every day.

4.1.1 Patient report

1. Click the **Patient Report** link on the Reports sub-menu to open the patients reports listing



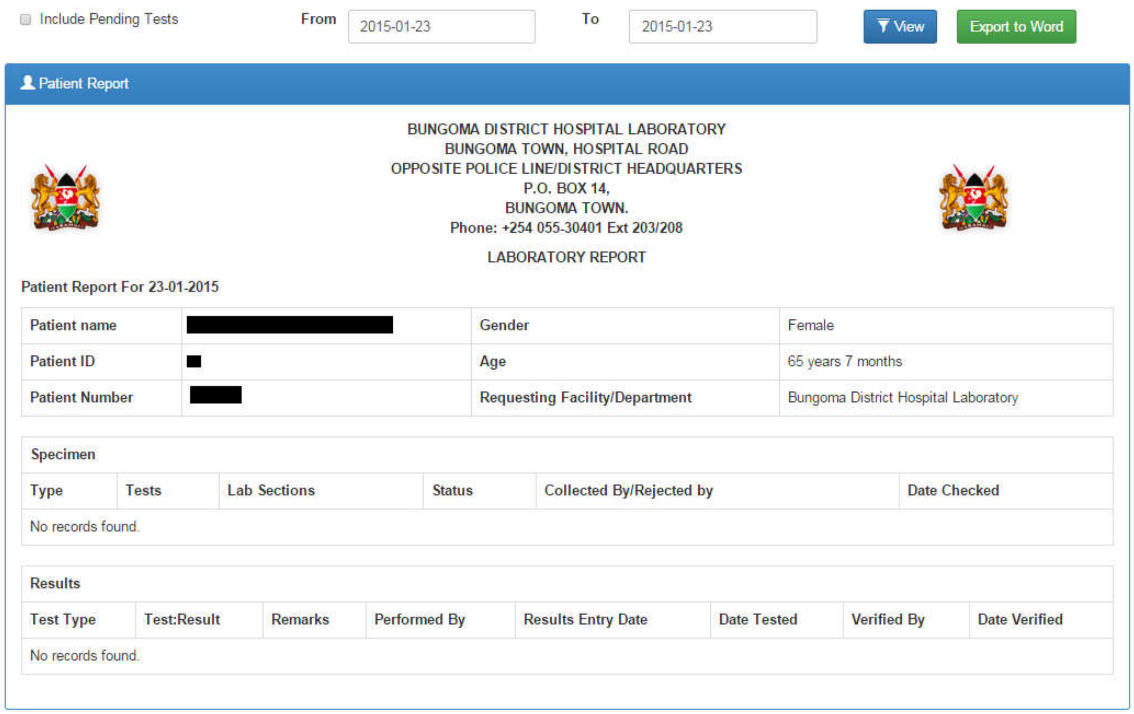
Search

Patient Report

Patient ID	Patient Number	Full Name	Gender	Age	Actions
1	[redacted]	[redacted]	M	8 years 7 months	View Report
2	[redacted]	[redacted]	F	65 years 7 months	View Report
3	[redacted]	[redacted]	M	4 years 3 months	View Report
4	[redacted]	[redacted]	F	30 years 5 months	View Report
5	[redacted]	[redacted]	F	19 years 3 months	View Report

2. Search for the patient by Patient Name, Patient Number, or Patient ID.
3. Click the **Search** button to start search.
4. Select the patient you want from the list if more than one patient matches your search criteria.
5. Click **View Report** to see all data for that patient.

You can edit the report to show activity within a date range, include pending tests for which results are not available, set printing information, or export to Word using the controls at the top of the page.



Include Pending Tests From 2015-01-23 To 2015-01-23 View Export to Word

Patient Report

BUNGOMA DISTRICT HOSPITAL LABORATORY
BUNGOMA TOWN, HOSPITAL ROAD
OPPOSITE POLICE LINE/DISTRICT HEADQUARTERS
P.O. BOX 14,
BUNGOMA TOWN.
Phone: +254 055-30401 Ext 203/208

LABORATORY REPORT

Patient Report For 23-01-2015

Patient name	[redacted]	Gender	Female
Patient ID	[redacted]	Age	65 years 7 months
Patient Number	[redacted]	Requesting Facility/Department	Bungoma District Hospital Laboratory

Specimen

Type	Tests	Lab Sections	Status	Collected By/Rejected by	Date Checked
No records found.					

Results

Test Type	Test:Result	Remarks	Performed By	Results Entry Date	Date Tested	Verified By	Date Verified
No records found.							

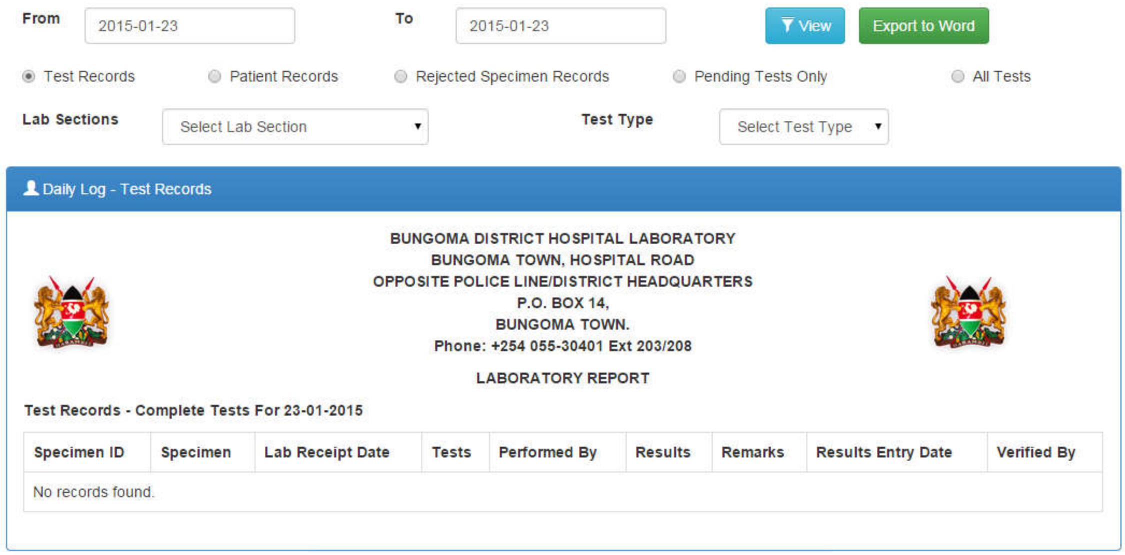
6. Click **View** to filter the report and **Export to Word** to export to word document.

4.1.2 Daily log

1. Click the **Daily Log** sub-menu under reports to view daily logs.
2. Set the date range to reflect the log to print. You can run a report of the day's activity by patients seen (by clicking Patient Records), or by tests run (by clicking Test Records) or rejected specimens (by clicking Rejected Specimen Records).

4.1.2.1 Test Records

You can choose to run a log for one lab section or for one type of test, for all tests or pending tests only. The default settings are test records, all sections, and all tests. The report loads with Export controls at the top of the page.

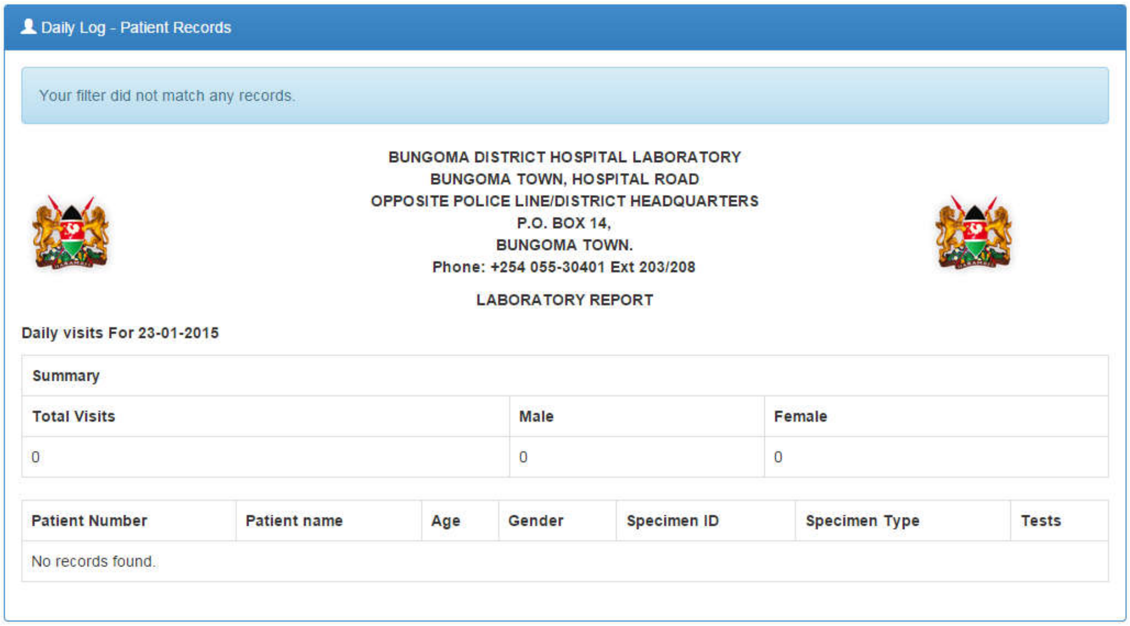


4.1.2.2 Patient records

1. Click on the Patient Records checkbox
2. Apply the filter parameters, date ranges in this case

   From 2015-01-23 To 2015-01-23

3. Click the View button to load the report
4. Click the Show/Hide Summary button to toggle the summary


Daily Log - Patient Records

Your filter did not match any records.

BUNGOMA DISTRICT HOSPITAL LABORATORY
BUNGOMA TOWN, HOSPITAL ROAD
OPPOSITE POLICE LINE/DISTRICT HEADQUARTERS
P.O. BOX 14,
BUNGOMA TOWN.
Phone: +254 055-30401 Ext 203/208

LABORATORY REPORT

Daily visits For 23-01-2015

Summary		
Total Visits	Male	Female
0	0	0

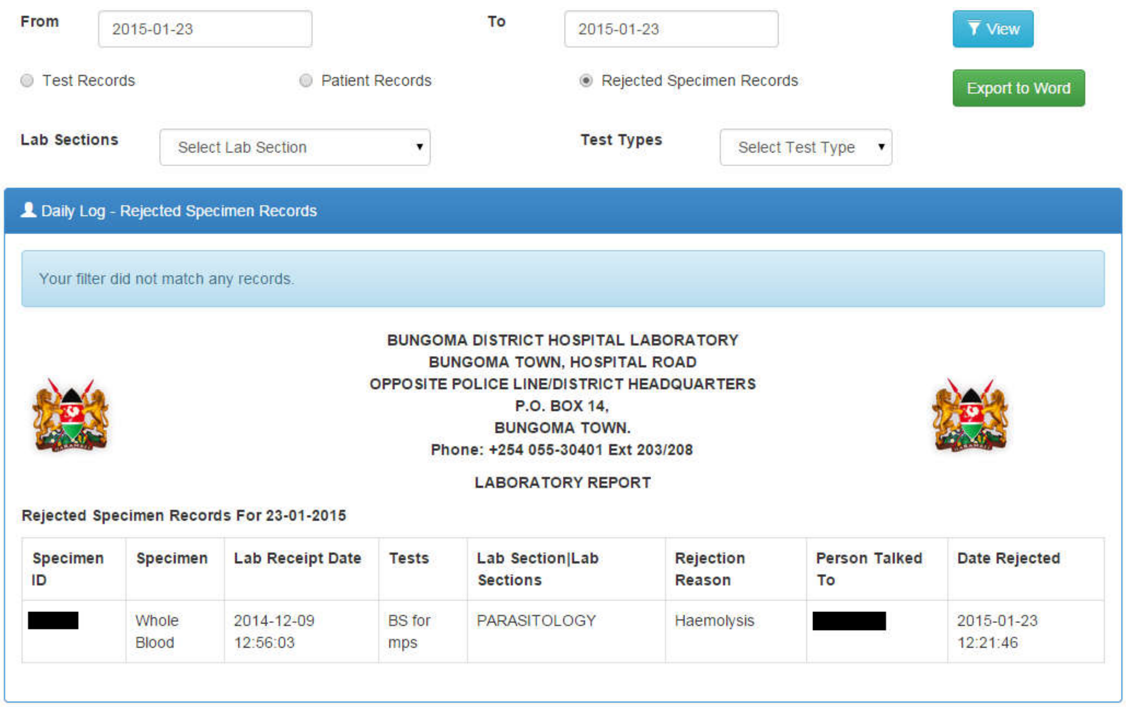
Patient Number	Patient name	Age	Gender	Specimen ID	Specimen Type	Tests
No records found.						

5. Click the Export to Word button to export the report to word document for further processing

4.1.2.3 Rejected Specimen records

1. Click the ◉ Rejected Specimen Records checkbox then View button to load the report

You can choose to run a log for one lab section or for one type of test. The default settings are test records, all sections, and all tests. The report loads with Export controls at the top of the page



Specimen ID	Specimen	Lab Receipt Date	Tests	Lab Section|Lab Sections	Rejection Reason	Person Talked To	Date Rejected
[redacted]	Whole Blood	2014-12-09 12:56:03	BS for mps	PARASITOLOGY	Haemolysis	[redacted]	2015-01-23 12:21:46

4.2 Aggregate reports

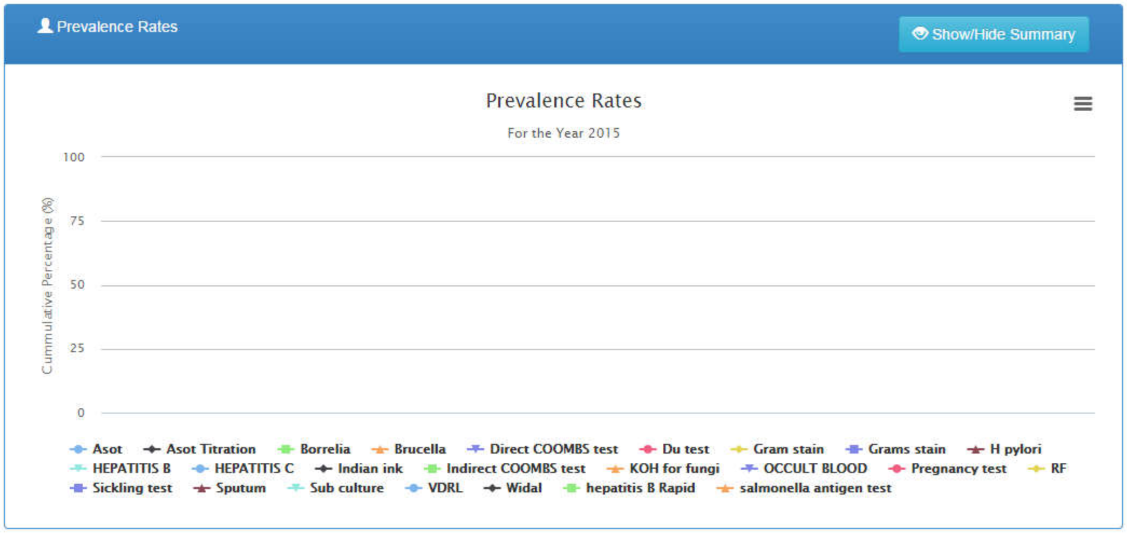
These are accrued summaries over a period of time.

4.2.1 Prevalence Rates

Gives the prevalence of a particular laboratory test result based on the number of tests done and the results.

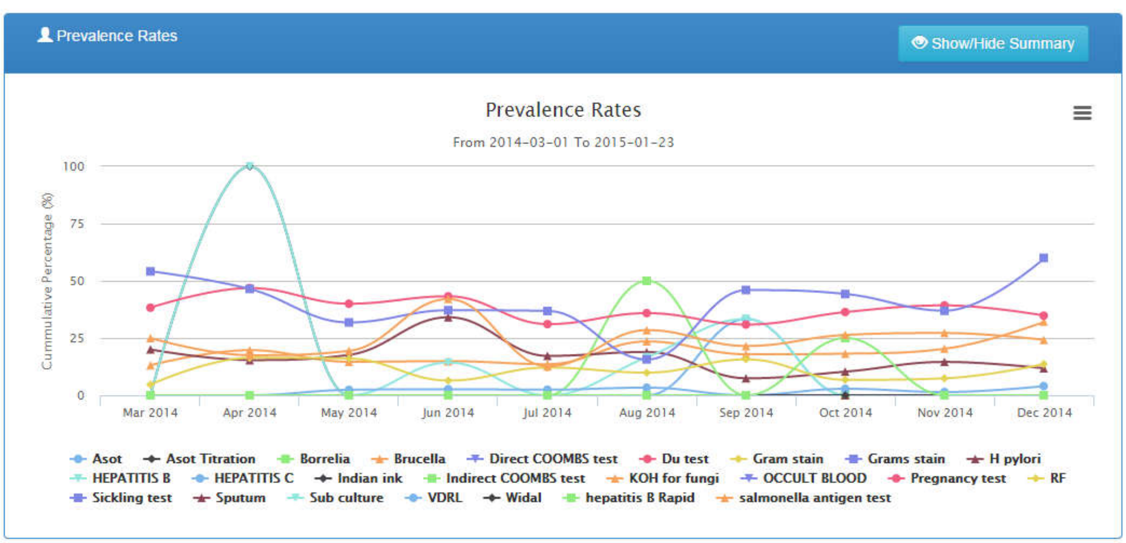
1. Click the Prevalence Rates sub-menu to load the report.

By default, the report loads prevalence rates for the current year



2. Set a date range to view infection graph and prevalence rates. You can also specify the lab section.

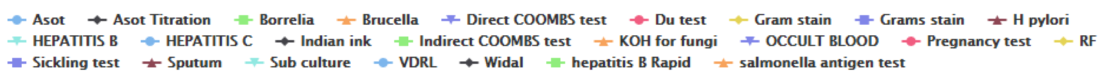
3. Click the  button to load the report with the filters you defined e.g.



4. You can view a numeric summary of the prevalence rates by clicking the Show/Hide Summary button to reveal the numeric data.

Test Type	Total Specimen	Positive	Negative	Cummulative Percentage (%)
Indirect COOMBS test	10	1	9	10.00
Direct COOMBS test	17	0	17	0.00
Du test	1	0	1	0.00
Sickling test	375	140	235	37.33
CSF for microbiology	37	3	34	8.11
Sputum	1	0	1	0.00
CSF	4	1	3	25.00
salmonella antigen test	2067	497	1570	24.04
OCCULT BLOOD	1	0	1	0.00

5. You can click on a test on the legend section to hide its graph



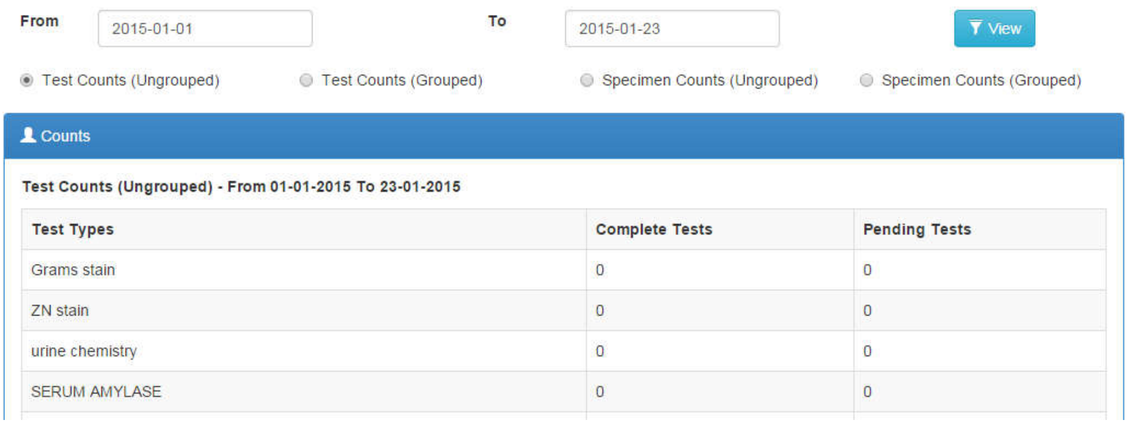
4.2.2 Counts reports

Generates a report for a particular time period of the number of tests and specimens both grouped and ungrouped.

1. Click the Counts sub-menu to launch the counts reports options

4.2.2.1 Test counts (Ungrouped)

Shows for each test, the number of complete vs pending tests overtime.



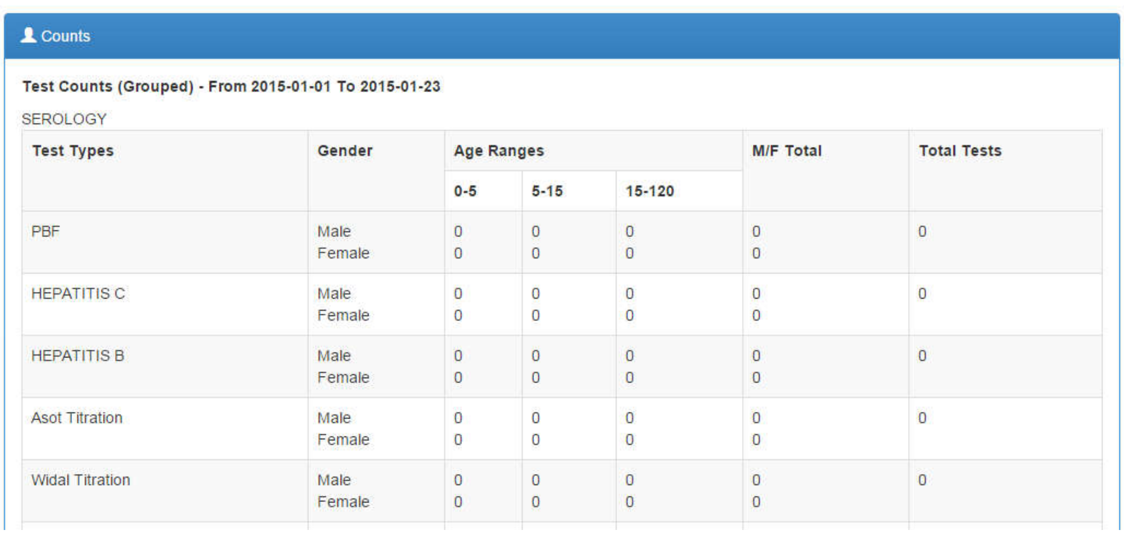
Test Types	Complete Tests	Pending Tests
Grams stain	0	0
ZN stain	0	0
urine chemistry	0	0
SERUM AMYLASE	0	0

The report can be filtered by specifying date ranges then clicking the  button to load the report with the applied filters.

4.2.2.2 Test counts (Grouped)

This is a report that groups tests according to various parameters such as lab section, gender, age ranges then counts the numbers for each while showing the total tests run.

Click the  checkbox then  to load the report



Test Types	Gender	Age Ranges			M/F Total	Total Tests
		0-5	5-15	15-120		
PBF	Male Female	0 0	0 0	0 0	0 0	0
HEPATITIS C	Male Female	0 0	0 0	0 0	0 0	0
HEPATITIS B	Male Female	0 0	0 0	0 0	0 0	0
Asot Titration	Male Female	0 0	0 0	0 0	0 0	0
Widal Titration	Male Female	0 0	0 0	0 0	0 0	0

4.2.2.3 Specimen counts (Ungrpuped)

It is a count for accepted vs rejected specimen

Click the ◉ Specimen Counts (Ungrouped) then View to load the report

Counts

Specimen Counts (Ungrouped) - From 2015-01-01 To 2015-01-23

Specimen Types	Accepted	Rejected	Total Specimen
Whole Blood	1	1	2
Serum	0	0	0
Dried Blood Spot	0	0	0
Sputum	0	0	0

4.2.2.4 Specimen counts (Grouped)

Click the ◉ Specimen Counts (Grouped) checkbox then View to load the report

Counts

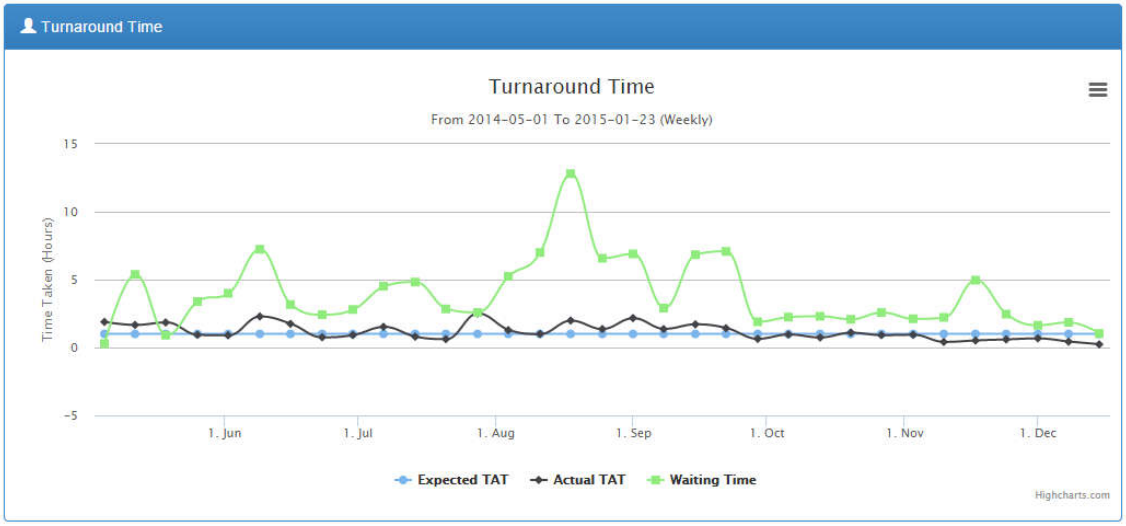
Specimen Counts (Grouped) - From 2015-01-01 To 2015-01-23

Test Types	Gender	Age Ranges			M/F Total	Total Specimen
		0-5	5-15	15-120		
Whole Blood	Male Female	0 1	0 0	0 0	0 1	1
Serum	Male Female	0 0	0 0	0 0	0 0	0

4.2.3 Turnaround time report

Allows you to see actual turnaround times between test order and completion for all or specific tests.

1. Click the Turnaround Time sub-menu to load the report
2. Set a date range then click the View button to filter the report. The default is data for the current year.

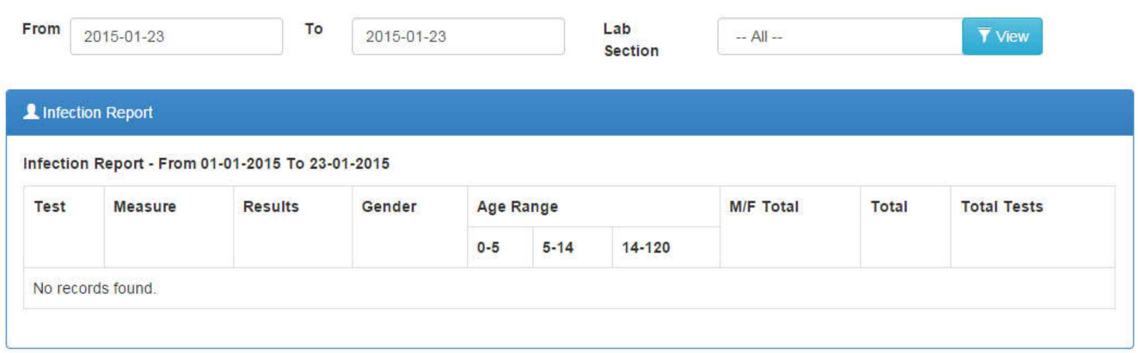


3. You can choose to run a log for one lab section or for one type of test. The default settings are test records, all sections, and all tests.
4. The report loads with Export controls which can be accessed by clicking the ≡ icon where the chart can be exported to PDF document or as an image.

4.2.4 Infection report

Allows you to generate reports of infections by patient age and gender.

1. Click Infection Report sub-menu to load the report. By default, it loads data counts for the current year.



Infection Report - From 01-01-2015 To 23-01-2015

Test	Measure	Results	Gender	Age Range			M/F Total	Total	Total Tests
				0-5	5-14	14-120			
No records found.									

2. Set a date range or select one Lab Section, or all sections to see all test results after clicking the View button.

Infection Report

Infection Report - From 2014-05-01 To 2015-01-23

Test	Measure	Results	Gender	Age Range			M/F Total	Total	Total Tests
				0-5	5-14	14-120			
BS for mps	BS for mps	+	Female	833	298	1129	2260	3935	16616
			Male	832	262	581	1675		
		++	Female	247	107	242	596	1063	
			Male	230	104	133	467		
		+++	Female	217	124	106	447	837	
			Male	208	107	75	390		
		++++	Female	108	51	23	182	356	
			Male	115	48	11	174		
		no mps seen	Female	1744	642	3857	6243	10425	
			Male	1818	540	1824	4182		

4.2.5 User statistics report

Display user specific statistics and user activity logs.

To load the report, click the **User Statistics Report** link on the navigation menu.

From 2015-01-24 To 2015-01-24

User -- All -- Report Type Summary View

User Statistics Report

User Summary Report (Period: 2015-01-24 - 2015-01-24)

Show 10 entries Search:

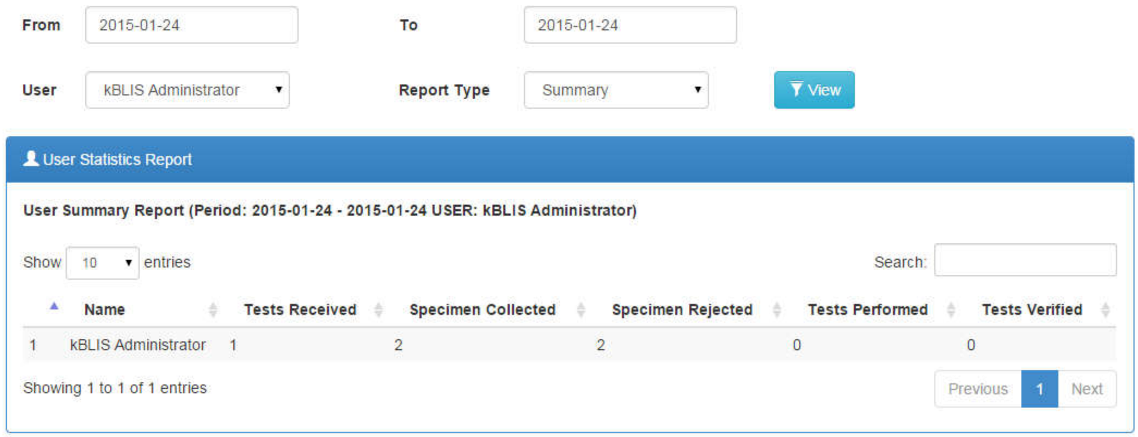
	Name	Tests Received	Specimen Collected	Specimen Rejected	Tests Performed	Tests Verified
1	[redacted]	1	2	2	0	0
2	[redacted]	3	9	1	1	0
3	[redacted]	4	2	0	2	1
4	[redacted]	8	1	0	3	0

Showing 1 to 4 of 4 entries Previous 1 Next

The report can be filtered by date ranges, a specific user and report type such as patient registry, specimen registry and so forth. The default report type is the general summary as shown above.

To filter, change the parameters as desired then click the **View** button.

For example with KBLIS Administrator user;



From 2015-01-24 To 2015-01-24

User kBLIS Administrator Report Type Summary View

User Statistics Report

User Summary Report (Period: 2015-01-24 - 2015-01-24 USER: kBLIS Administrator)

Show 10 entries Search:

	Name	Tests Received	Specimen Collected	Specimen Rejected	Tests Performed	Tests Verified
1	kBLIS Administrator	1	2	2	0	0

Showing 1 to 1 of 1 entries Previous 1 Next

You can also search for a certain user using the 

The list of users will automatically filtered as you type.

4.2.6 Surveillance report

Allows you to generate surveillance report by laboratory and test outcome.

1. Click 

sub-menu to load the report. By default, it loads surveillance for the current month.

From 2015-03-01 To 2015-03-24 View

Surveillance

BASIC LABORATORY INFORMATION SYSTEM
COUNTY REFERRAL HOSPITAL, BLIS
REFERRAL HOSPITAL LOCATION
P.O. BOX PRIVATE BAG,
KENYA.
PHONE: +0000000 EXT 203/208

LABORATORY REPORT

Surveillance - From 01-03-2015 To 24-03-2015

	< 5 Years		≥ 5 Years		Total	
Laboratory	Tested	Positive	Tested	Positive	Tested	Positive
Malaria	1	0	2	2	3	2
Typhoid	0	0	0	0	0	0
Shigella Dysentry	0	0	0	0	0	0

2. Set a date range to see all test results after clicking the 

button.

	< 5 Years		≥ 5 Years		Total	
Laboratory	Tested	Positive	Tested	Positive	Tested	Positive
Malaria	1	0	2	2	3	2
Typhoid	1	1	0	0	1	1
Shigella Dysentry	0	0	0	0	0	0

4.2.7 Quality control report

Allows you to generate quality control report by range and control type.

1. Click Quality Controls sub-menu to load the report. By default, it loads quality control report for the current month.

2. Set a date range and select the control type to see all results after clicking the View button.

4.3 Inventory reports

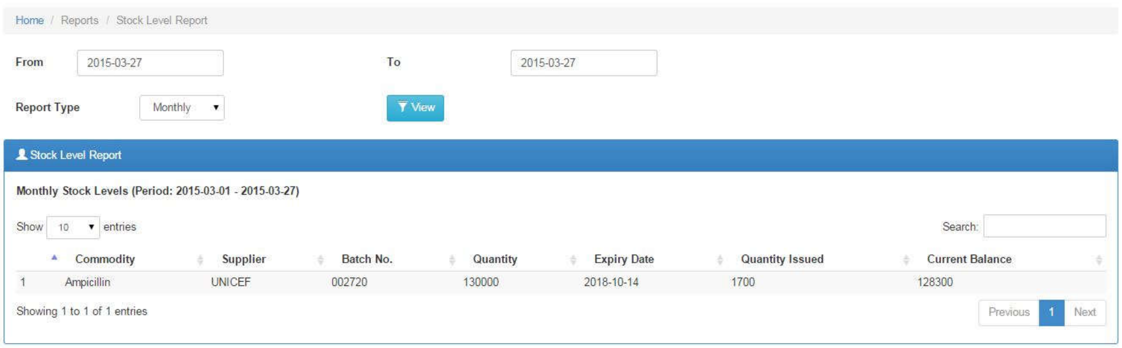
These are accrued summaries of inventory over a period of time.

4.3.1 Stock Levels reports

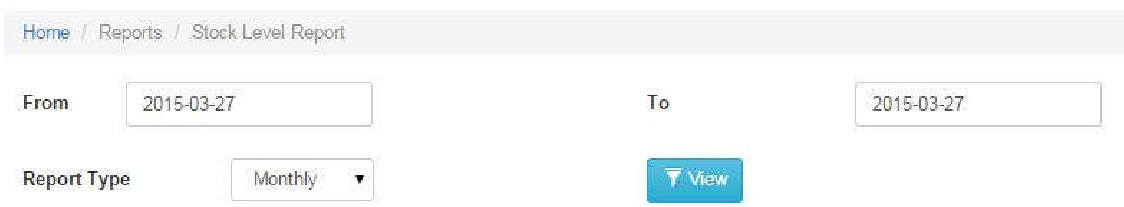
Gives a brief summary of the available stock.

1. Click the **Stock Levels** sub-menu to load the report.

By default, the report loads stock levels for the current month



2. Set a date range to view report either monthly or quarterly



Click the **View** button to load the report with the filters you defined

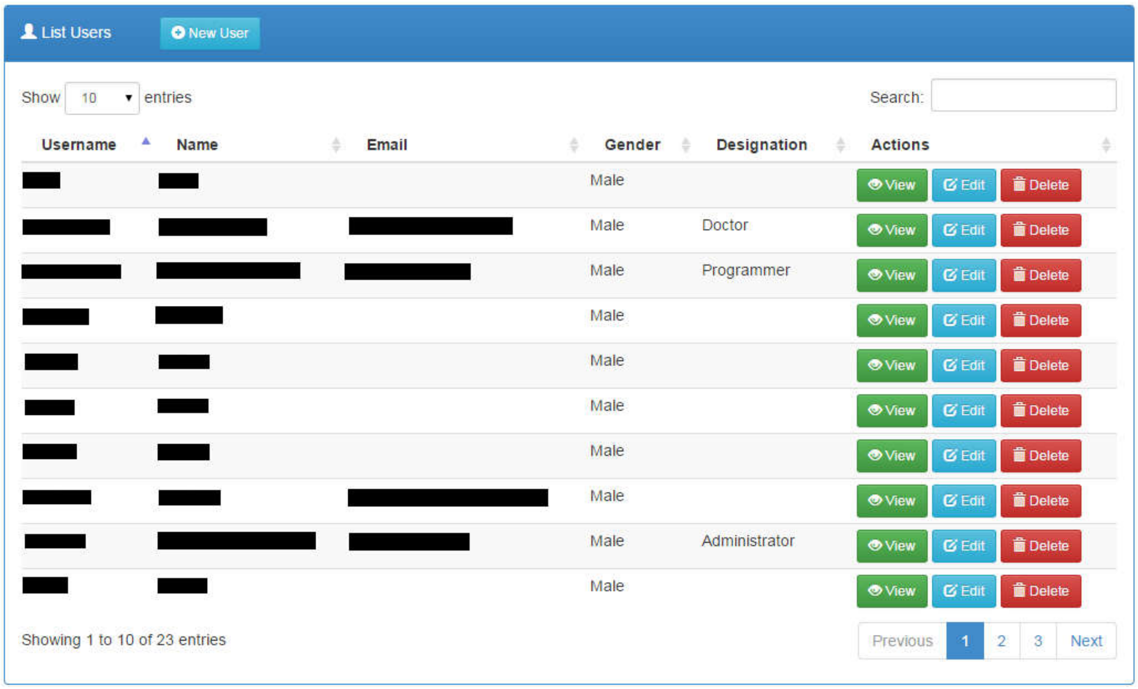
5.0 Access Controls

5.1 User accounts

This page shows all the users with access to the system. It allows you to create new user accounts, edit account settings, delete accounts, and monitor account activity.

5.1.1 List users

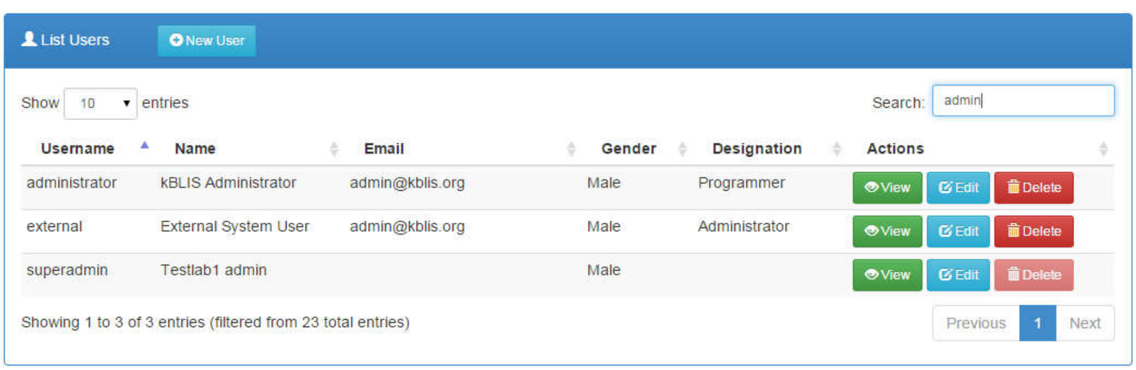
Click the **User Accounts** link on the navigation menu.



5.1.2 Searching a user

1. Begin typing a user's name, username or email in the search field

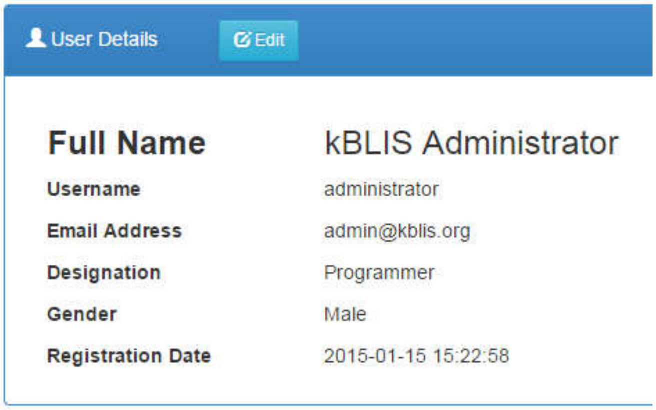
2. The list shall be automatically filtered



5.1.3 Viewing a user's details

1. Click the  button to load the measure details

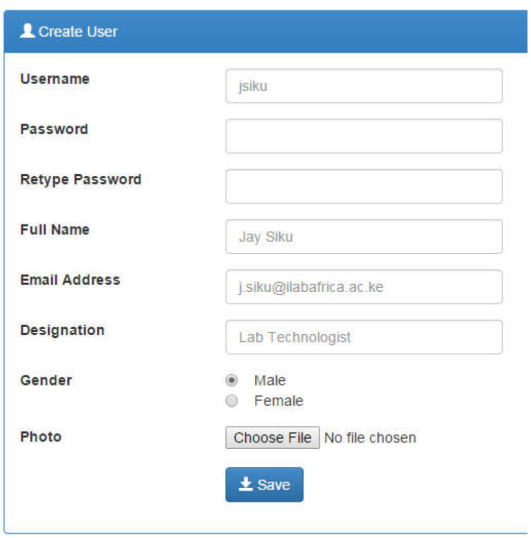
2. The user details shall be loaded on to a panel



5.1.4 Adding new users

1. Click the  button to load a new user account form

2. Complete the form with the user's details



3. Click the  button to save the changes.

5.1.5 Updating a user's details

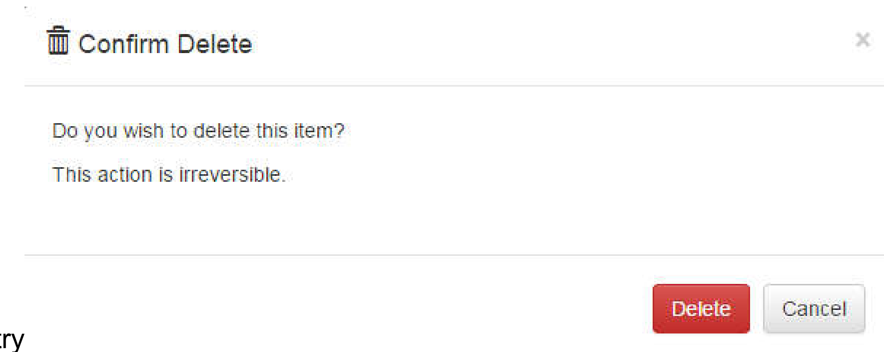
1. Click the  button on the users list.

2. Make the desired modifications to the pre-filled details

3. Click the Save button to save the changes.

5.1.6 Deleting a user

1. To delete click the Delete button of an



entry

2. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

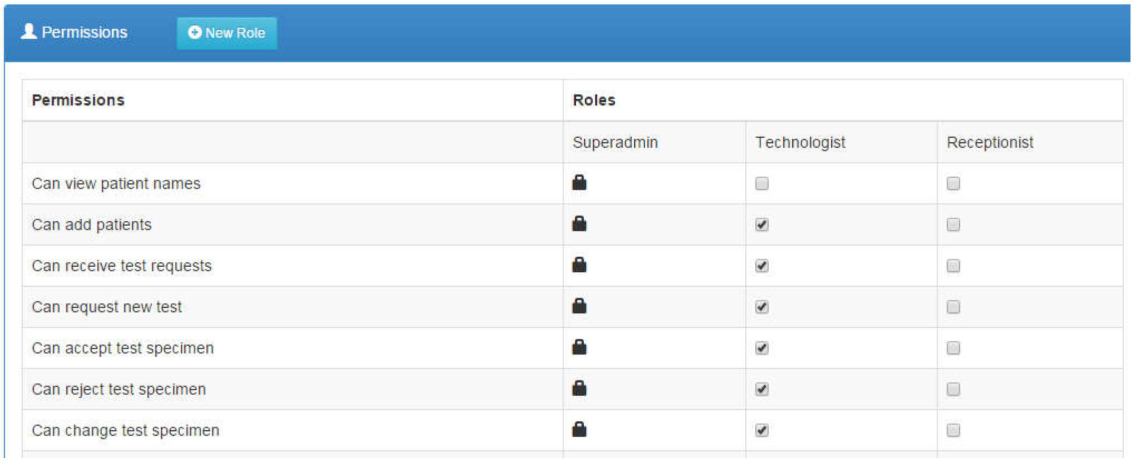
5.2 Permissions

This is where each role in the system is assigned specific actions enabled for that role

5.2.1 List all permissions

1. Click the Permissions link on the navigation menu.

2. The list of all permissions is as shown



Permissions	Roles		
	Superadmin	Technologist	Receptionist
Can view patient names	🔒	☐	☐
Can add patients	🔒	☑	☐
Can receive test requests	🔒	☑	☐
Can request new test	🔒	☑	☐
Can accept test specimen	🔒	☑	☐
Can reject test specimen	🔒	☑	☐
Can change test specimen	🔒	☑	☐

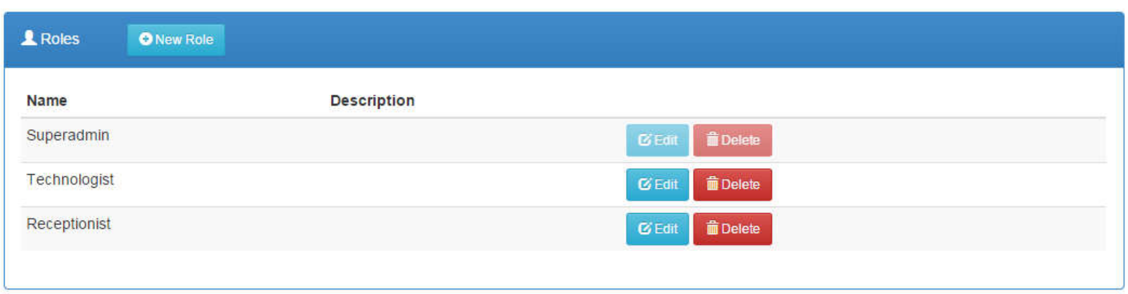
5.2.2 Defining and updating privileges

1. Check all permissions a role can be allowed to handle as designed by the lab as shown above.
2. Click the Save button to save the changes.

5.3 Roles

5.3.1 List roles

1. Click the Roles link on the navigation menu
2. The list of available roles shall be loaded



Name	Description	
Superadmin		Edit Delete
Technologist		Edit Delete
Receptionist		Edit Delete

5.3.2 Adding a new role

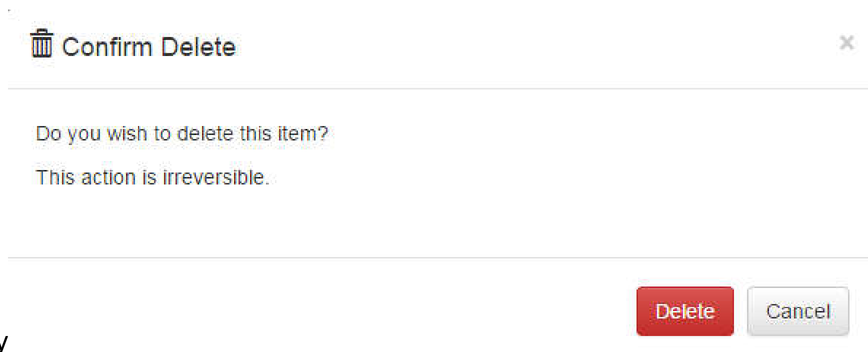
1. Click the New Role button
2. Complete the presented form
3. Click the Save button to save the changes.

5.3.3 Updating an existing role

1. Click the Edit button
2. Make the necessary modifications to the data
3. Click the Save button to save the changes.

5.3.4 Deleting a role

1. To delete click the Delete button of an



entry

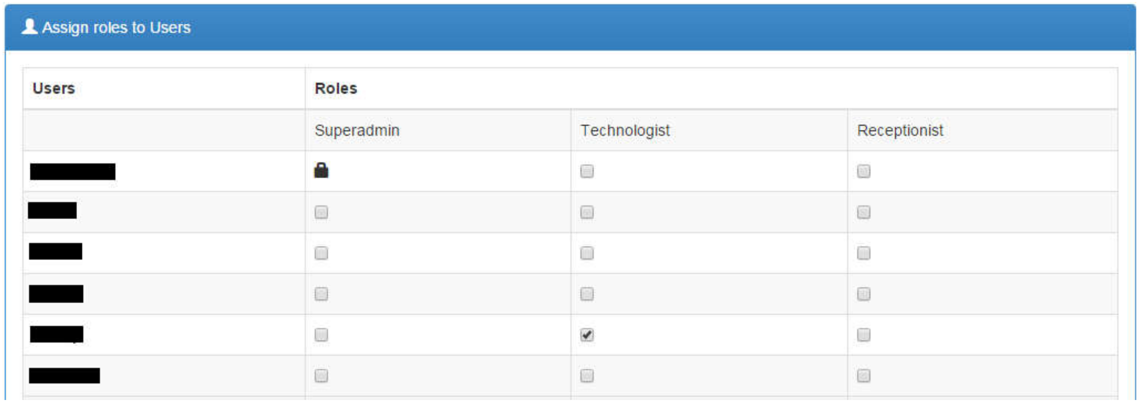
2. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

5.4 Assign roles

Allows the assignment of specific roles to the various users of the system.

5.4.1 Assigning and updating assigned roles to users

1. Click the Assign Roles link on the navigation bar.
2. On the loaded panel, check as appropriate to the user and role



3. Click the 

button to save the changes.

6.0 Inventory

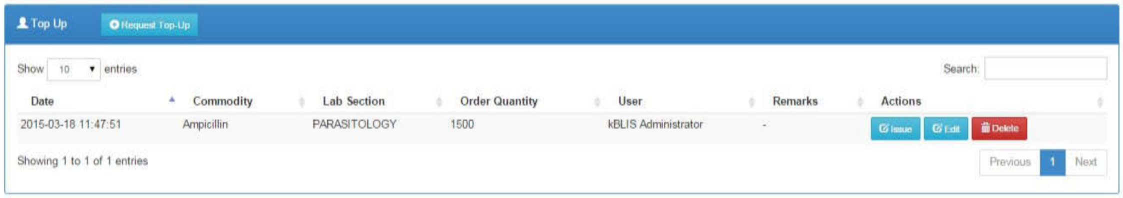
6.1 Top Up

Allows you to create top up as appropriate for the inventory.

6.1.1 Listing all Top ups

1. Click the 

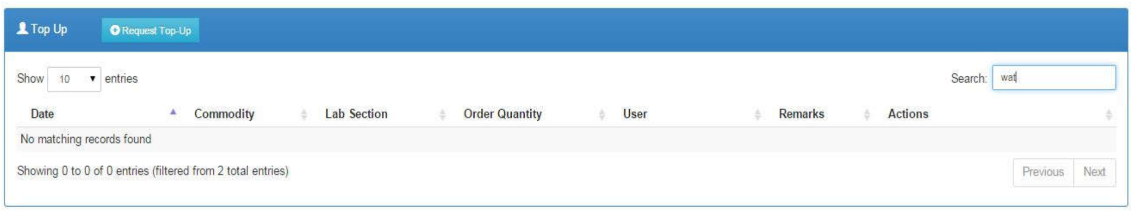
link on the navigation bar



6.1.2 Searching for a top up

1. Begin typing the top up name on the search field

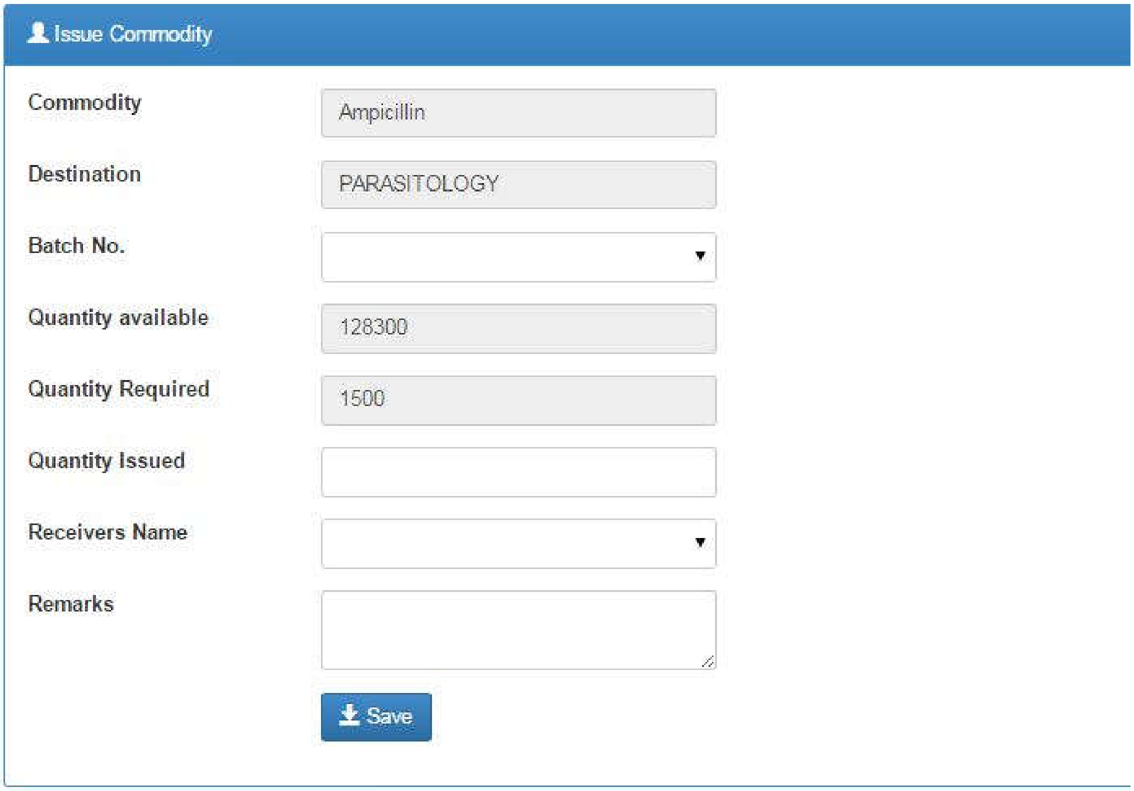
2. The list will automatically be loaded with matching values e.g.



6.1.3 Issuing a Top up

1. Click the  button of the specific top up.

2. Complete the details on the provided form



3. Click the 

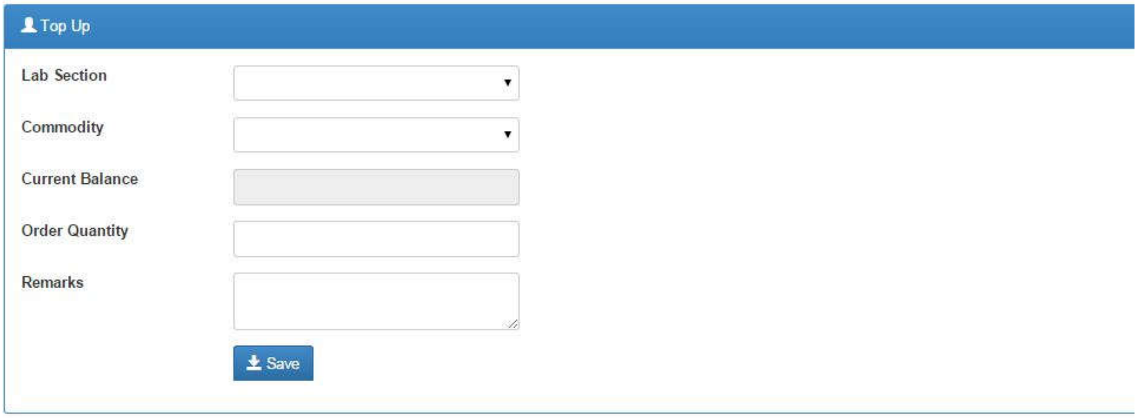
button to save the top up to the system

6.1.4 Adding a new Top up

1. On the list of top ups, click the 

button.

2. Complete the details on the provided form



3. Click the 

button to save the organism to the system

6.1.5 Updating top up details

1. Click the 

button to open a form with pre-filled values.

2. Make the necessary modifications such as the lab section, commodity , remarks and so forth.

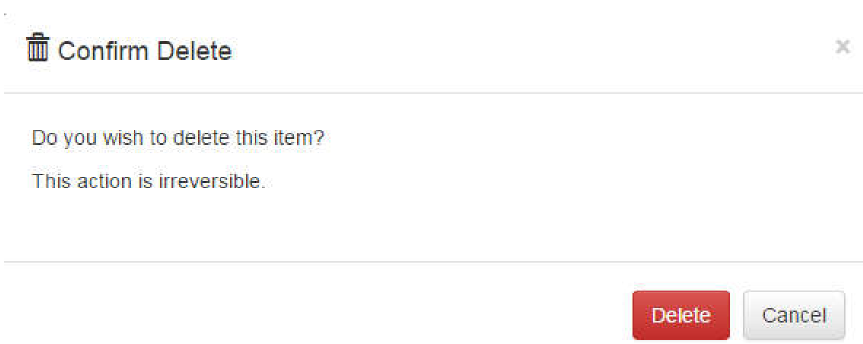
3. Click the 

button to save the changes.

6.1.6 Deleting a top up

1. Click the 

button of an entry



2. Click the 

button on the pop-up if you are sure to delete, otherwise, click the 

button or icon to dismiss.

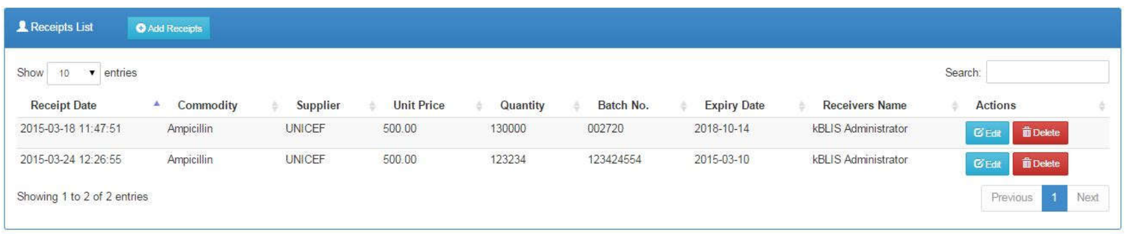
6.2 Receipts

Allows you to create receipts as per specific commodity.

6.2.1 Listing all Receipts

1. Click the 

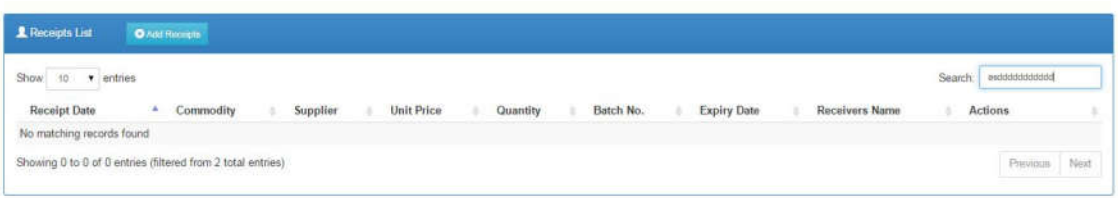
link on the navigation bar



6.2.2 Searching for a receipt

1. Begin typing the receipt name on the search field

2. The list will automatically be loaded with matching values e.g.

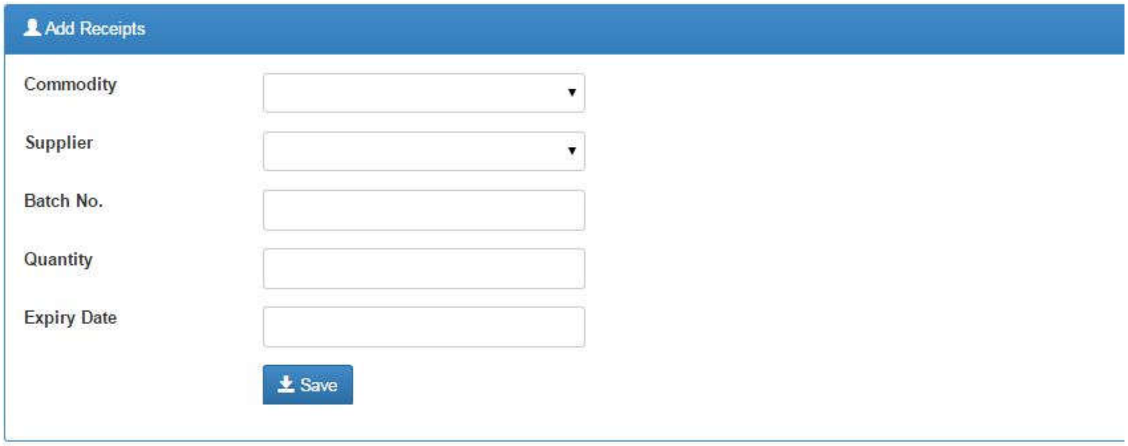


6.2.3 Adding a new receipt

1. On the list of receipts, click the 

button.

2. Complete the details on the provided form



3. Click the  button to save the receipt to the system

6.2.4 Updating receipt details

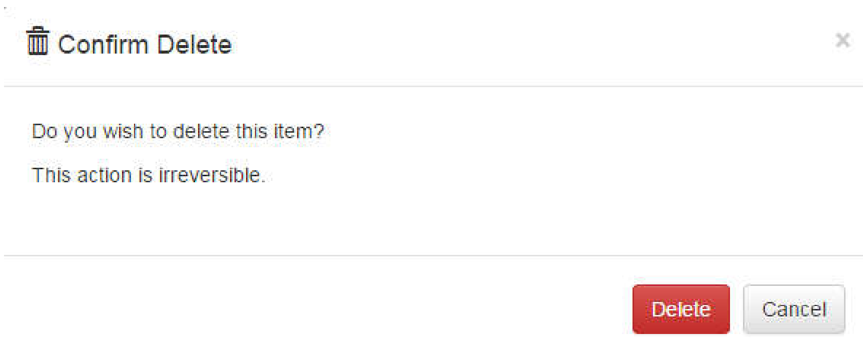
1. Click the  button to open a form with pre-filled values.

2. Make the necessary modifications such as the commodity, supplier, batch no and so forth.

3. Click the  button to save the changes.

6.2.5 Deleting a receipt

1. Click the  button of an entry



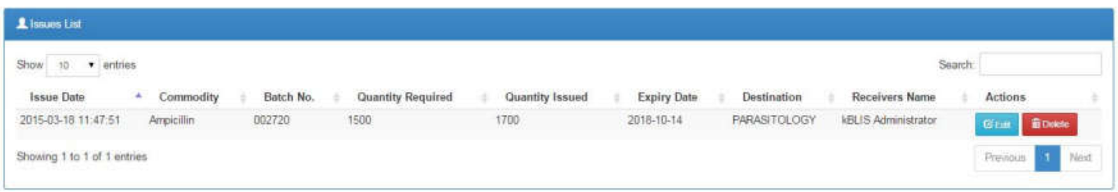
3. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or icon to dismiss.

6.3 Issues

Allows you to issue commodities.

6.3.1 Listing all Issues

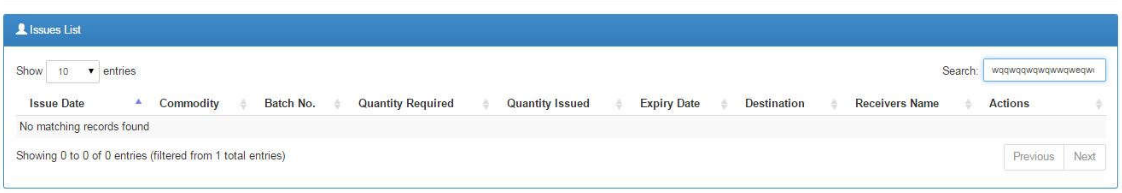
1. Click the Issues link on the navigation bar



6.3.2 Searching for an issue

1. Begin typing the issue name on the search field

2. The list will automatically be loaded with matching values e.g.



6.3.3 Updating an issue

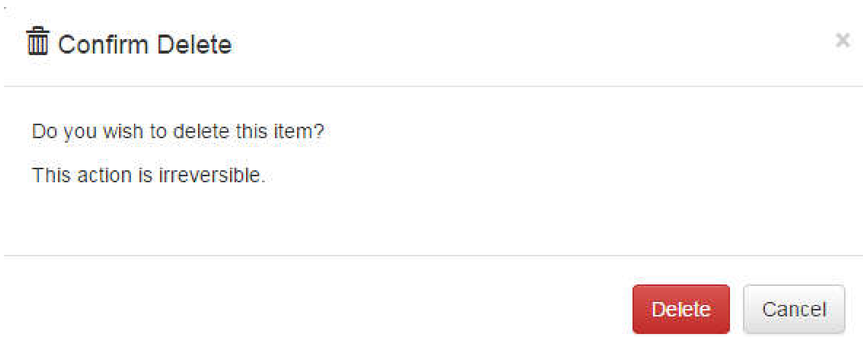
1. Click the Edit button to open a form with pre-filled values.

2. Make the necessary modifications such as the commodity, batch no, destination and so forth.

3. Click the Save button to save the changes.

6.3.4 Deleting an issue

1. Click the Delete button of an entry



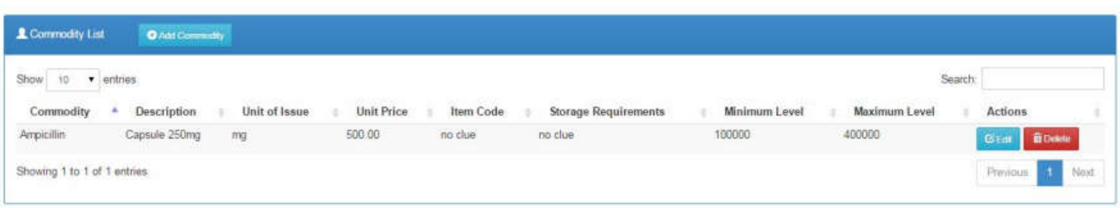
3. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

6.4 Commodities

Allows you to add a new commodity as per the inventory demands.

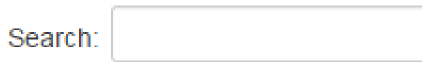
6.4.1 Listing all Commodities

1. Click the Commodities link on the navigation bar

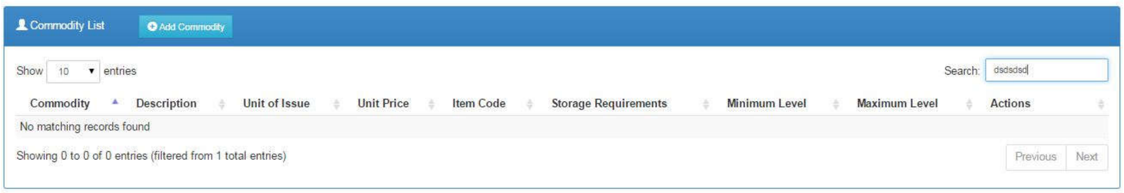


6.4.2 Searching for a receipt

1. Begin typing the commodity name on the search field



2. The list will automatically be loaded with matching values e.g.

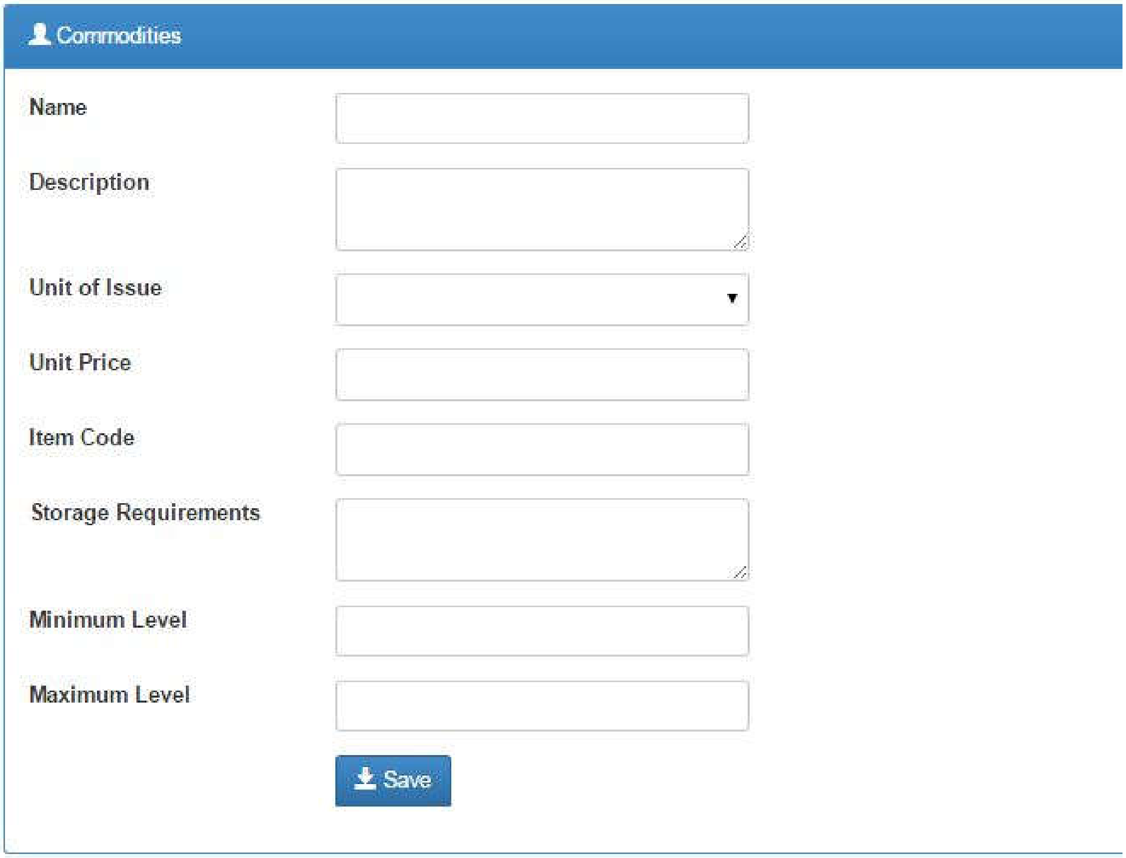


6.4.3 Adding a new commodity

1. On the list of commodities, click the 

button.

2. Complete the details on the provided form



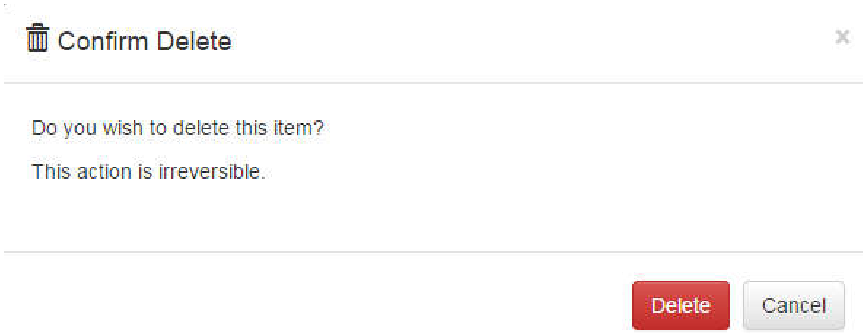
3. Click the  button to save the commodity to the system

6.4.4 Updating commodity details

1. Click the  button to open a form with pre-filled values.
2. Make the necessary modifications such as the name, unit price, item code and so forth.
3. Click the  button to save the changes.

6.4.5 Deleting a commodity

1. Click the  button of an entry



4. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

6.5 Suppliers

Allows you to add a suppliers to the commodity system

6.5.1 Listing all suppliers

1. Click the Suppliers link on the navigation bar

6.5.2 Searching for a supplier

1. Begin typing the supplier name on the search field

2. The list will automatically be loaded with matching values e.g.

6.5.3 Adding a new supplier

1. On the list of suppliers, click the  button.

2. Complete the details on the provided form

3. Click the  button to save the supplier to the system

6.5.4 Updating supplier details

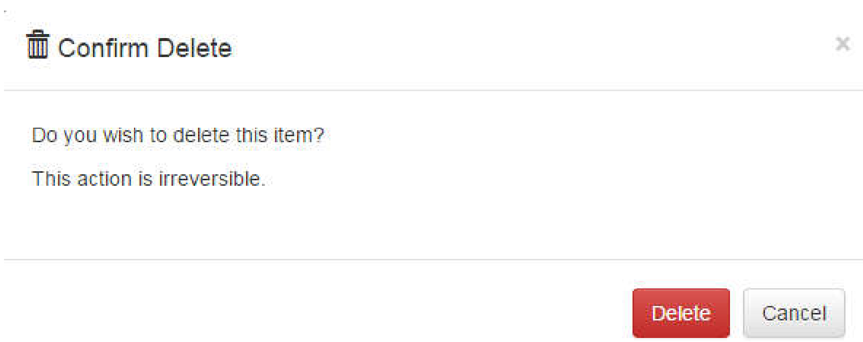
1. Click the  button to open a form with pre-filled values.

2. Make the necessary modifications such as the name, phone no, item email and so forth.

3. Click the  button to save the changes.

6.5.5 Deleting a supplier

1. Click the Delete button of an entry



5. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

6.6 Metrics

Allows you to add a metrics to the inventory system

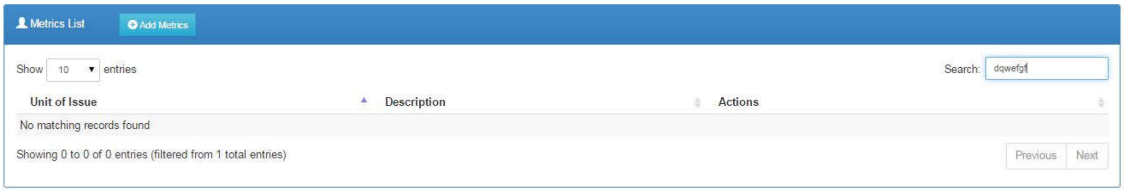
6.6.1 Listing all metrics

1. Click the Metrics link on the navigation bar

6.6.2 Searching for a metrics

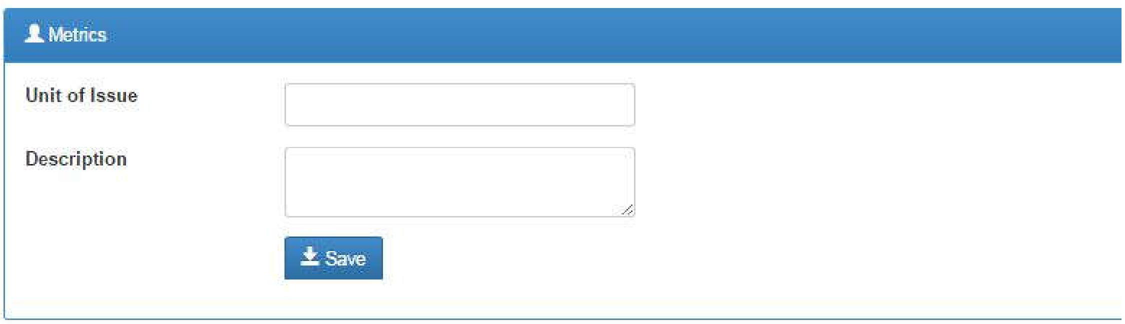
1. Begin typing the metric name on the search field

2. The list will automatically be loaded with matching values e.g.



6.6.3 Adding a new metric

1. On the list of suppliers, click the  button.
2. Complete the details on the provided form



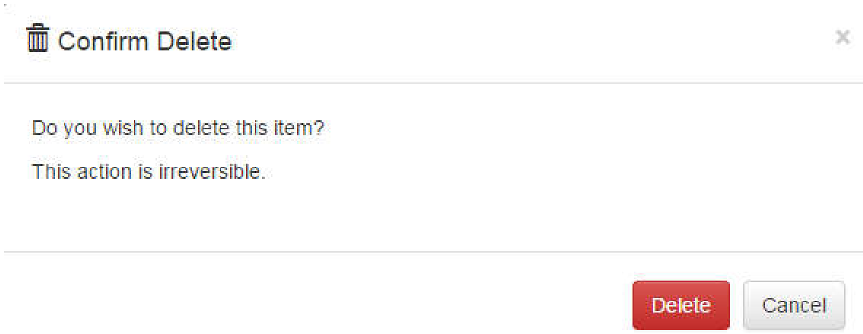
3. Click the  button to save the metric to the system

6.6.4 Updating metric details

1. Click the  button to open a form with pre-filled values.
2. Make the necessary modifications such as the unit of issue, description and so forth.
3. Click the  button to save the changes.

6.6.5 Deleting a metric

1. Click the  button of an entry



6. Click the Delete button on the pop-up if you are sure to delete, otherwise, click the Cancel button or × icon to dismiss.

7.0 Quality Controls

7.1 Viewing Quality Controls

Allows you to manage the quality control system

7.1.1 Listing all controls

1. Click the 

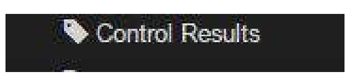
link on the navigation bar

7.1.2 Searching for a control

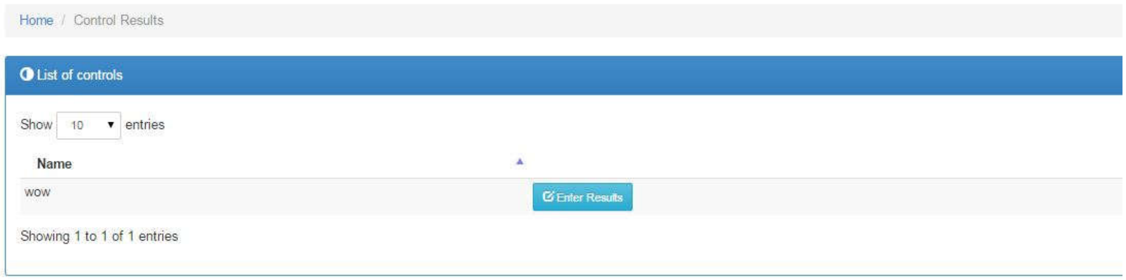
1. Begin typing the control name on the search field

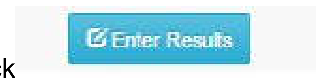
2. The list will automatically be loaded with matching values e.g.

7.2 Controls Results

1. Click the 

link on the navigation bar to list all control results.



2. To enter control results click 

. After entering the results save as required.

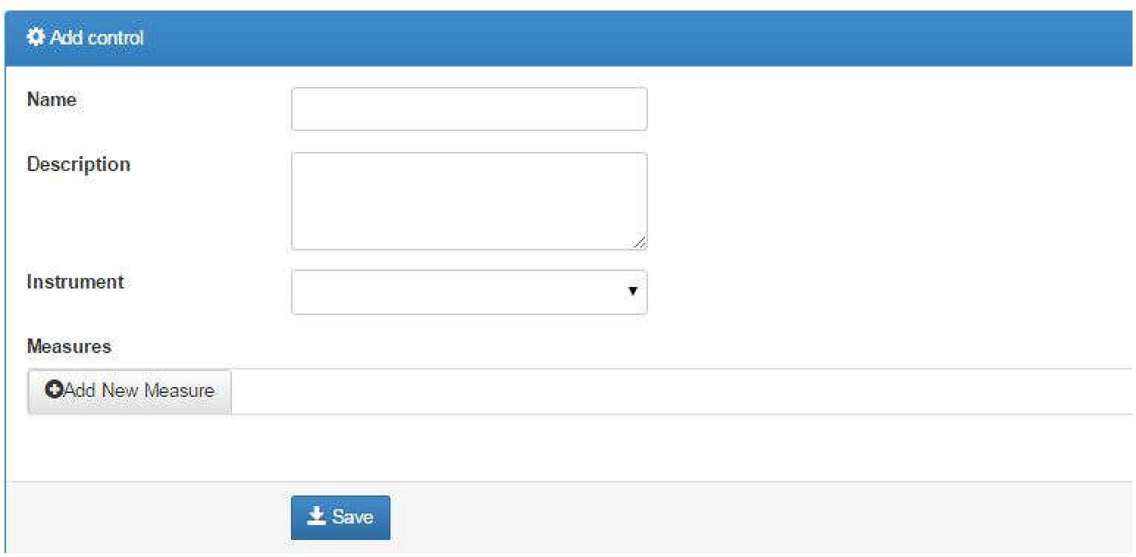
7.3 Controls

7.3.1 Adding a new control

1. On the list of controls, click the 

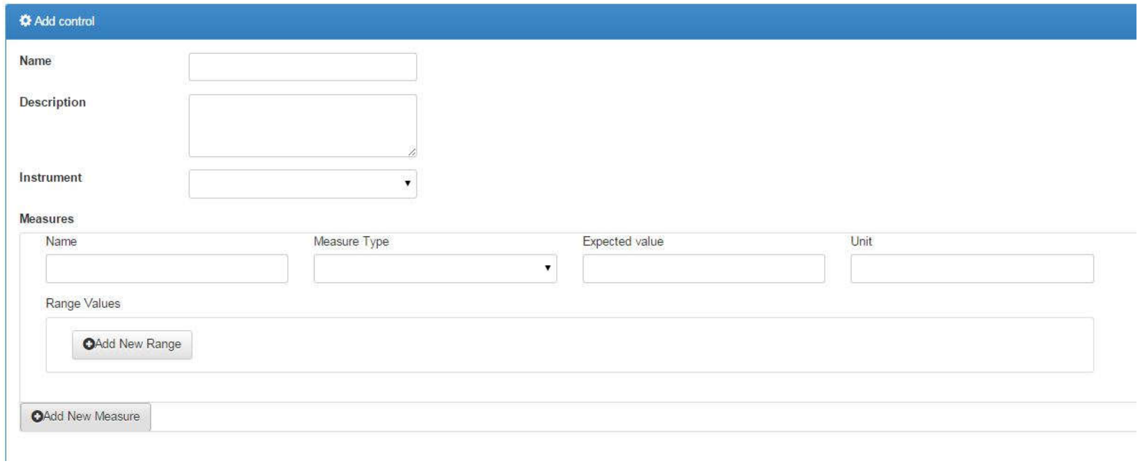
button.

2. Complete the details on the provided form



3. To add a new measure click 

and the form below will be displayed, fill and select all necessary fields. You can also add measure range by clicking the add new range button

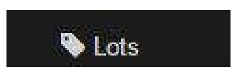


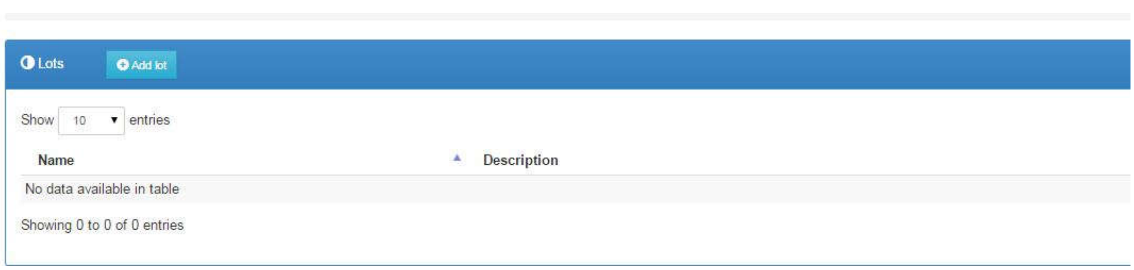
3. Click the  button to save the control to the system

7.4 Lots

Allows you to add a lots to the qc system

7.4.1 Listing all Lots

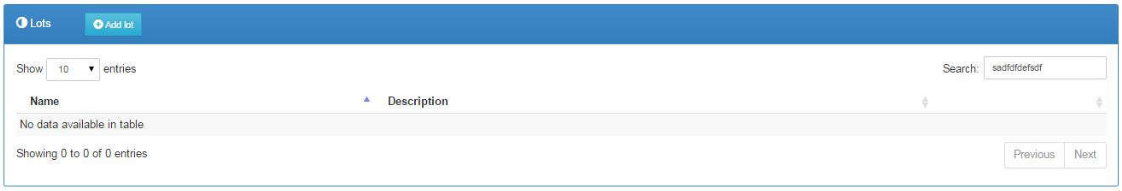
1. Click the  link on the navigation bar



7.4.2 Searching for a lot

1. Begin typing the lot name on the search field

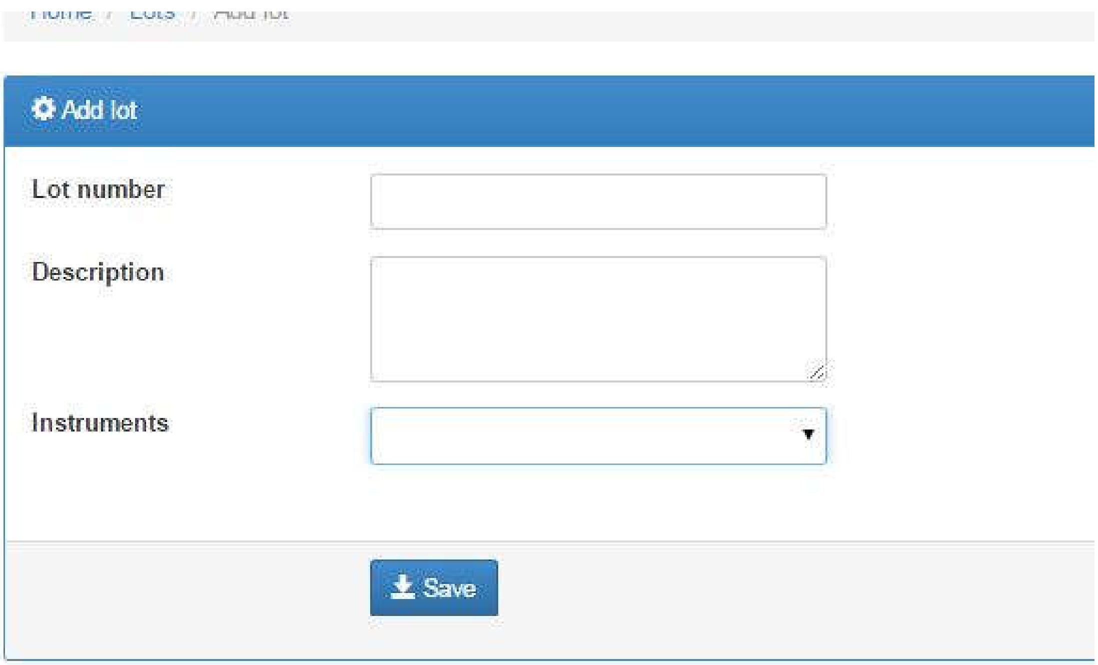
2. The list will automatically be loaded with matching values e.g.

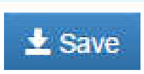


7.4.3 Adding a new lot

1. On the list of lots, click the  button.

2. Complete the details on the provided form



3. Click the  button to save the lot to the system

Glossary

Admin – Designation for a user that has control over lab configuration settings.

Reports – Pages that collect metrics for various types of data. The scope of these reports varies from individual patients to entire groups of laboratories.

Aggregate – Type of report that collects data over a period of time and presents it to the user.

Results - The recorded outcome of tests performed on specimens.

Barcodes – Used in inventory management to create printable 'barcode' labels for reagents.

Specimen – An entry representing a physical specimen or reading taken from a patient.

Specimen Type – Classification for different types of specimens.

Grouped Reports – Reports that cover multiple types of information.

Technologist – A designation for a user who is tasked with entering data into BLIS.

Inventory – Interface for managing reagents and supplies.

Test – An entry representing a test or reading taken from a specimen.

Lab Configuration – Collection of customizable settings relating to the collection and storage of data.

Test Type – Classification for different types of tests.

Manager – Another name for an Admin user.

Turnaround Time – A measurement of the time it takes to receive a result, once a specimen is collected.

Patient – Entry for a patient whose specimens, tests are performed on.

User – Any person or entity that logs into the BLIS.

Prevalence Rate – The percentage rate of occurrence of a particular result of tests.

Verify – An action performed on test entries that validates the results for further use.

Reagent – Term used in inventory control in BLIS. Denotes any physical supply that requires tracking in the inventory system.

Worksheet – Customizable, printable sheets for improving the speed at which information is recorded in a physical sense (i.e. not entered directly into the BLIS.)

Registration – The act of entering a patient into the BLIS program. Creates a unique patient entry that can be associate d with specimens and tests.