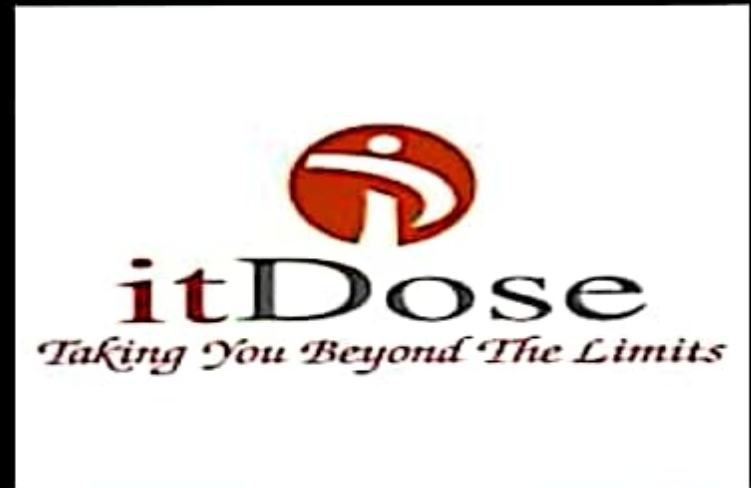# ITDOSE INFOSYSTEM PVT. LTD.

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INTRODUCTION :

LABORATORY INFROMATION SYSTEM VERSION (6.0).

INTRODUCTIONS

LABORATORY INFORMATION SYSTEM

A laboratory information system (LIS) is computer software that processes, stores and manages data from all stages of medical processes and tests.

Physicians and lab technicians use laboratory information systems to coordinate varieties of inpatient and outpatient medical testing, including hematology, chemistry, immunology and microbiology. Basic laboratory information systems commonly have features that manage patient check in, order entry, specimen processing, result entry and patient demographics. An LIS tracks and stores clinical details about a patient during a lab visit and keeps the information stored in its database for future reference.

A closely related technology to LIS is a laboratory information management system (LIMS), but there are differences between the two software types. An LIS is a healthcare system that holds clinical data. By comparison, an LIMS can be deployed in healthcare, too, but it is also used in non-medical settings, including in environmental testing laboratories, pharmaceutical laboratories and water treatment plants. An LIMS can be used as a Web tool or installed on a personal computer or device and stores and manages captured data, as well as producing reports from that data.

The electronic data capture process of an LIMS or LIS can reduce time spent and cut errors associated with the transcribing process.

Maintenance of laboratory information systems took on added importance with the introduction of the meaningful use program. The program is overseen by the Centers for Medicare & Medicaid Services and consists of sets of criteria split into stage 1, stage 2 and stage 3. Participating healthcare providers that successfully prove their electronic health record (EHR) systems or EHR modules -- such as an LIS -- satisfy program criteria are eligible for incentive payments. If an LIS is tested and certified to meet meaningful use criteria or other health IT certification standards, it is defined as an EHR module.

Some meaningful use reporting measures that could involve an LIS include the electronic submission of lab test results to public health agencies and the incorporation of clinical lab test results into a certified EHR system.

By Sudhanshu

Content Screen's

- ➢ LOGIN.
- ➢ REGISTRATION.
- ➢ SAMPLE COLLECTION.
- ➢ LABORATORY.
- ➢ RESULT ENTRY.
- ➢DISPATCH REPORT.
- ➢LABORATORY MASTER

TABLE OF CONTENTS !

➢ Login …… !
➢How to patients Registration done !
➢Discuss the Mandatory Field at the time of registration the patients !
➢Discuss the various steps about registration patients !
➢Payments Methods !
➢Sample collection process !
➢Sample Receiving process !
➢Department Receive !
➢Sample Rejection !
➢How to patients result entry in the LIS software !
➢Print the patients reports !
➢Investigation Manager !
➢Formula Master !
➢Investigation Template !
➢Outsource Lab Investigation Master !
➢Interpretation !
➢Package Master !
➢Add Comments !

Login

➤Login means a login and password that allows access to the Service. Sample 1. User-Login means a unique username and associated password provisioned to an identifiable individual to permit them to access the Services.
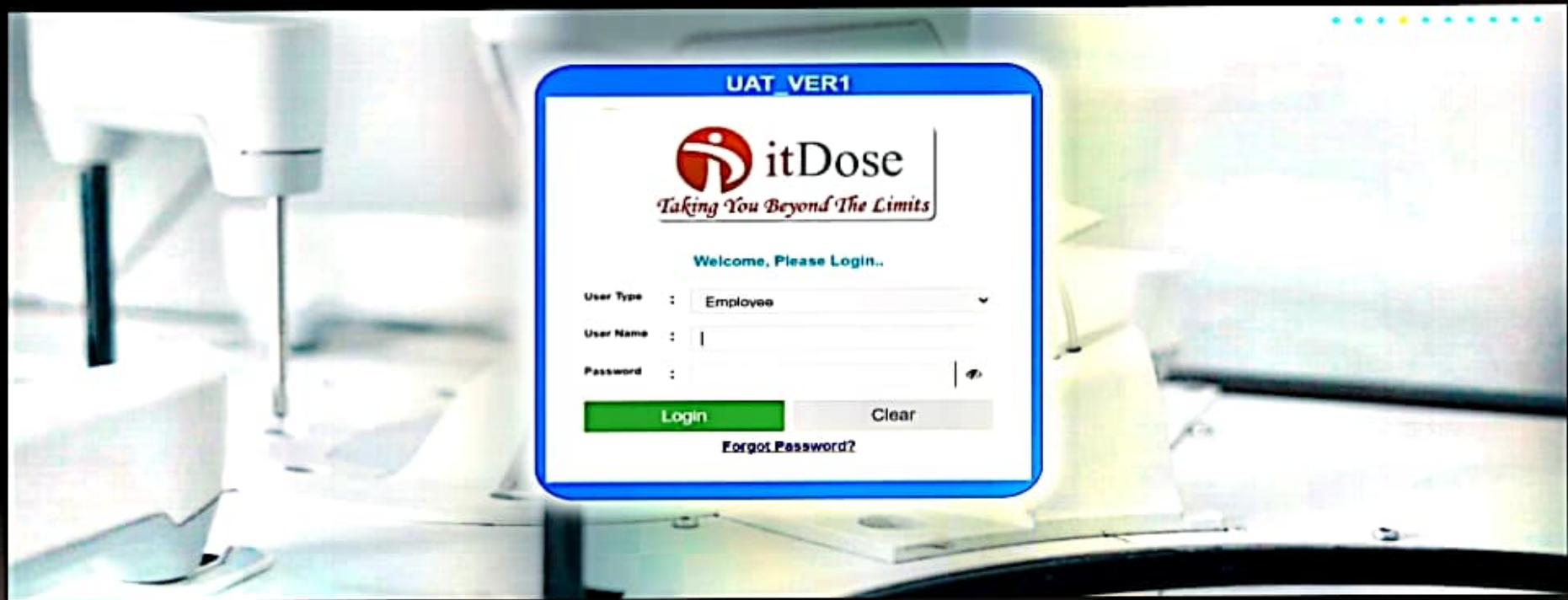
➤**Login screen** allow you to enter and access the module features assign by the administrator.

Role's and Departments.

➤Have look the role and departments in the below of attached images :

➤Different Type of roles are arranged by the administer for the employee .
After login you would be able to see the particular that are given to you

LABORATORY MASTER

Getting Started

The laboratory menu is used for altering masters related to the lab reporting data. Under the laboratory menu there are several sub menus by the name of

- Investigation Master
- Add Comments
- Antibiotic Master
- Formula Master
- Help Option Master
- Interpretation
- Investigation Template
- Lab Outsource Master
- Lab Observations Comments
- Manage Delivery Days
- Manage Holidays
- Manage Ordering
- Manage _IsNabL
- Organism Master
- Outsource Lab Investigation Master
- Package Master
- Sample Type Master

Laboratory Menu !

➢ The Toolbar on all *LIS* screens contains buttons that give you quick access to common commands. To choose a command, simply click the appropriate button. Following are the buttons included in the toolbar.
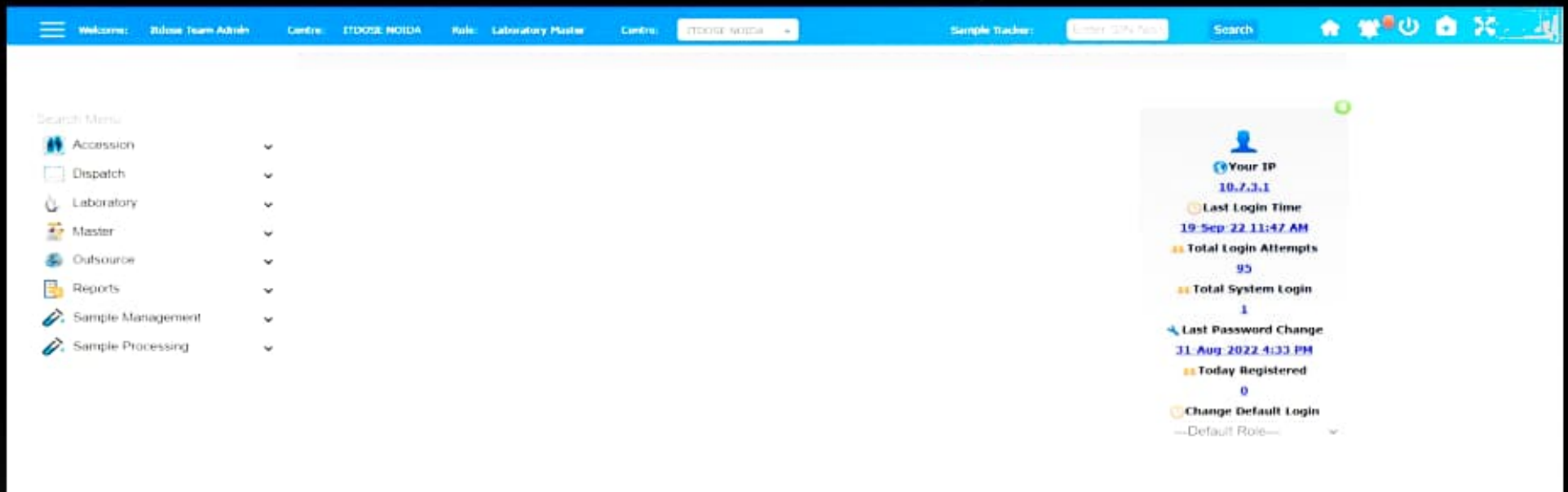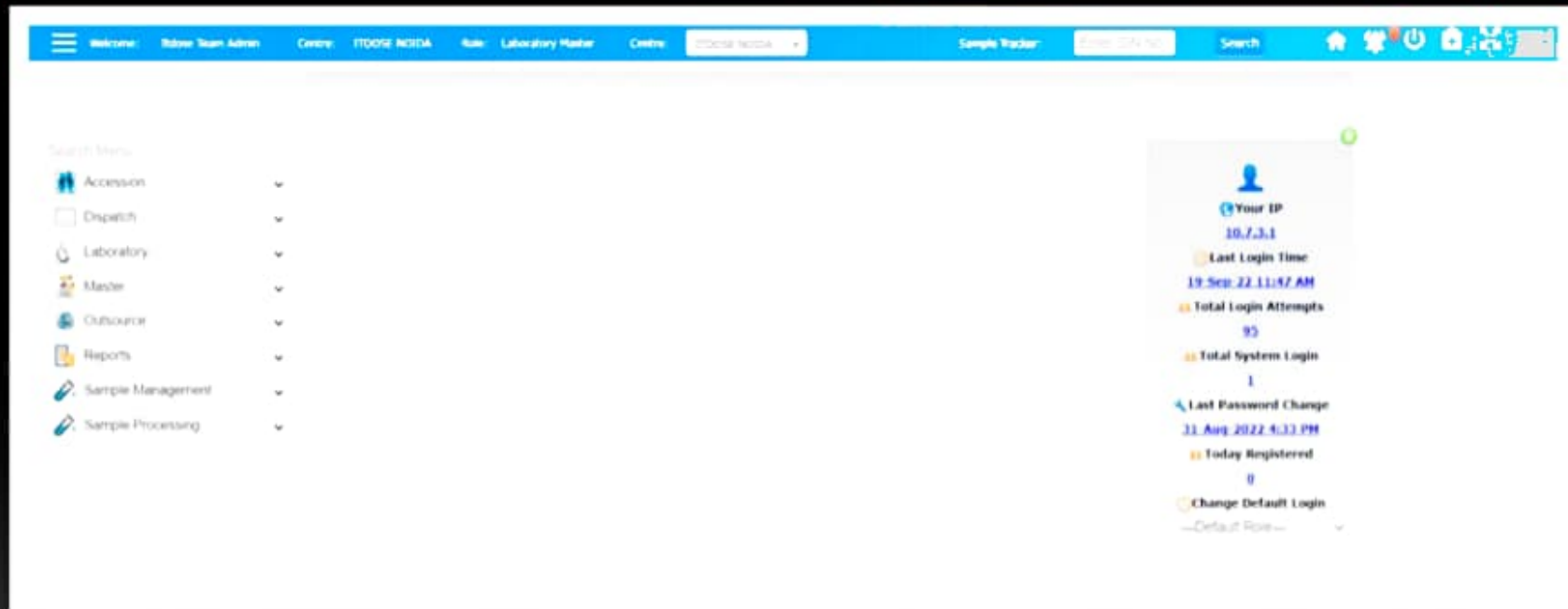
➢ Menu

The Menu control is used to display a menu in an ASP.NET Web page and is often used in combination with a SiteMapDataSource control for navigating a Web site.

Laboratory Sub-Menu !

➢ Sub Menu is menu inside menu that called sub menu.

Investigation Master !

> Move your cursor over Laboratory and then click on the Investigation Manager, once you click on the investigation Master the below screen will appear.

> New Investigation – We can create new test.

> Inactive Test – Hide the test and not show the registration time.

> Isactive – Show the test.

➤ To add any new observation click on the new investigation check box from the below screen and follow the steps shown below.

Details

➤ Department – Select the any dept.

➤ Test Name - Carona2020

➤ Test Code – 100

➤ Gender – Male, Female, Both

➤ Container Color Code – Red, Blue, Black, White

➤ Type – Sample Required, Sample Not Required, Segregation Required.

➤ Sample Qty – Need to Qty (1ml)

➤ Sample remarks – any remarks

➤ Report Type – Path Numeric (to put the value-10, 20, 11, 22, +ve,-ve)

      Path Rich Text (Some text format)

      Radiology

➢Short Name – Complete Blood Count (CBC, CBC +, CBC 1)

➢Auto Consume – NO
         Investigation Wise
         Observation Wise

➢Billing Category – Routine
         Special

➢Concents Form – A form signed by a patient prior to a medical procedure to confirm that he or she agrees to the procedure and is aware of any risks that might be involved.

Other Detail

➢Reporting
➢Print Sample Name
➢Booking
➢Show Name in Patient Report
➢Show Name in Analysis Report
➢Show in Online Report
➢IsAutoStore
➢Urgent
➢Isactive
➢Print separate
➢IsOrganism
➢IsCultureReport
➢IsMic
➢Set PRO Target
➢Wt./Ht/LMP/Blood Group

> **If you want to edit any investigation from the below screen and follow the below steps.**
> **Search by code or Name the any test**

Details

➤ **Click on observation button to mapped Observation.**
➤ **Click the test comment to add comment in the test.**
➤ **Add interpretation after click the investigation interpretation button.**
➤ Add investigation lab observation help after click the help menu button
➤ Map investigation to role after click map investigation to Role button
➤ Short Name Master .
➤ Concents form to fill the patients details.
➤ Alias to add machine name alias.

Observations

➢Once you click on the observation button the below screen will appear.

➢To edit any observation of any investigation select the investigation from the dropdown as shown below.

➢Once you select any investigation the observation of the same will load here
➢Select the investigation from this dropdown
➢Now to edit the observation click on the edit button against the observation

➢Once you click on the edit button of the corresponding observation the below screen will appear.

Edit Observation Detail

⦿ Range for Male ○ Range for Female

Observation Details

Observation Name : Sample Type	☑ Show in Analysis Report
Short Name :	☑ Range for Male & Female both
Suffix :	Centre Name : ABC1 ⌄ ☐ For All Centre
☑ Method Name :	Machine : ACLELITE ⌄ ☑ Result to be mandatory
Round Off : 2 ⌄	Master Gender : Booking for Both ⌄
☐ Print Separate	Type : Normal ⌄
☑ Print Lab Report ☐ Allow Duplicate Booking	☐ Show Abnormal Alert ☐ Show Delta Report
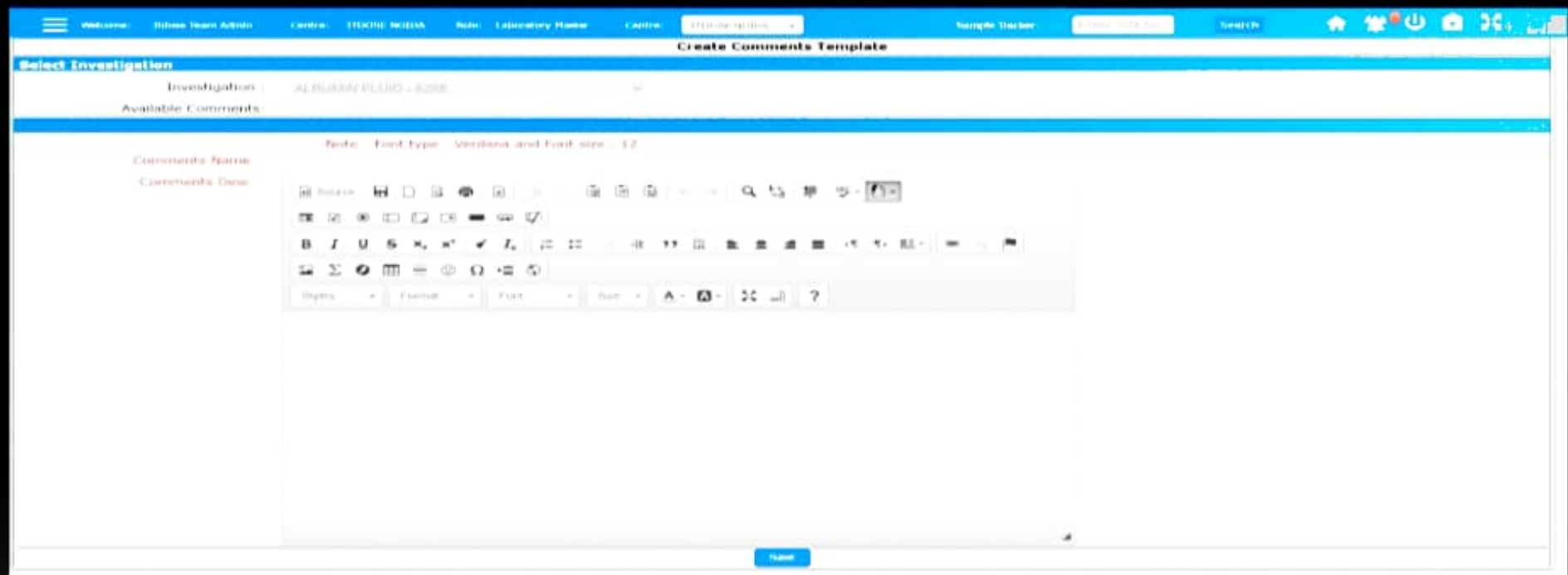
Observation Ranges

S.No.	From Age	To Age	Min. Reading	Max. Reading	Min. Critical	Max. Critical	AutoApp Min	AutoApp Max	AMR Min	AMR Max	Reflex Min	Reflex Max	Unit	Display Reading	Default Reading	C
1	0															

Save Ranges

➢**Click male or female to edit the ranges of male or female.**
➢**Put the desired ranges in these fields**
➢**After editing the desired changes click on the save ranges button to save your information**
➢**Edit the desired changes you want to make against the particular fields.**

Investigations Comment

➢Once you click on the investigation comment button of the corresponding investigation the below screen will appear.

➢**Already select the investigation from the dropdown**
➢**Enter the comment name**
➢**Enter Comment here**
➢**Click to save button to add new comment**

Investigation Interpretation

➤ Once you click on the investigation interpretation button of the corresponding investigation the below screen will appear.

There are two type add investigation interpretation

➤ Observation
➤ Investigation

➤ Select the investigation from the dropdown
➤ Enter Interpretation
➤ Click to save button to add new interpretation

Map To Role

➤If you want to add a test to a role, then use it
Once you click on the map investigation to role button of the corresponding investigation
the below screen will appear.

➤**Click to save button to map investigation to role**
➤**Select check box to map investigation to role**

Formula Master

➢Formula master is used to set a formula. There are two bottom show:

➢Left and right

➢Left- Calculate the formula

➢Right- Modified the formula

➢Move your courser over Laboratory and then click on the Formula Master link, once you click on the Formula Master link the below screen will appear

Help Option Master

Move your cursor on laboratory and then click on the Investigation Help Option, once you click on the Investigation Help Option the below screen will appear.

Why do we do use?
If you want to bring negative and positive by default inside an observation, then use it.

➢Add new help menu
➢Edit Help menu
➢Select the investigation from this dropdown
➢Then select the observation for which you want to add an Help Option
➢Now select the desired Help Option from the list below
➢After selecting the desired Help now click on the Map button to save the Help Option

Lab Outsource Master

➢ **Outsourcing is a go-to solution for the laboratories where they can forward the Patient Samples to tie-up labs when the necessary facilities/equipment's to perform certain high-end tests are absent with them. This greatly helps in retaining their patient footfall in spite of missing facilities. The test results can then be obtained from the Main lab and presented to practitioners/patients under their very own brand name, thus completely concealing the loss of Patients.**

**The above fig. show the menu check-
Check means tie-up labs.**

How it's work !

HOW IT WORKS?

Every time there is an Outsourcing done by a lab to the Main lab, the type of Sample, Sampling Status and Report Status shall be tracked and maintained on Lal Path Outsourcing. As the Main lab completes Sample Testing, the Reports shall be fetched on Lal Path and the Outsourced labs may produce the final Report in their Brand Template. As far as the commercials are concerned, there are simplified Prepaid and Postpaid payment methods for the labs to pay out to the Main labs.

Step of outsource

Registration → sample collection → sample receive

Laboratory → result entry → Outsource lab sample

Package Master !

Move your cursor over Laboratory and then click on the Package Master, once you click on the Package Master the below screen will appear

➢Edit checkbox is for Add or Remove the
➢Save Package
➢Select Package from dropdown
➢To add package click on Add Package
➢To Add Investigation Click on Add investigation
➢Create new package

Manage isNABL !

➢ When the Lab becomes old IsNabL gives a certificate for the particular test of that lab.And
the certificate on which you print your logo and star (*).

THANKS FOR WATCHING

➢ Thank you for watching this presentation, I hope all your doubts have been clarified, Thanks again for your patience.

Have a good life
Thanks & Regards
Sudhanshu Bharti
(ITDOSE infosystem)