Wise Wave IT Solutions

LIMS

Wise Wave IT Solutions offers a range of solutions designed to streamline your business operations and enhance efficiency.

Wise Wave IT Solutions' Specialization

Custom Software Solutions

At Wise Wave IT Solutions we specialize in crafting Customized solutions that align perfectly with your business objective and unique challenges.

By recognizing that every organization has its own identity, we embrace a collaborative approach to design and develop innovative software that derives your success and transforms your vision into reality.

Key Features

Agile Development
Flexible and iterative approach ensures raped development and quick to changes

User Centric Design
We optimize user experience, crafting innovative interface that are easy to navigate.

Scalable Solutions
At Our software is designed to grow with your business, adapting to changing needs and seamlessly integrating new features.

Laboratory Information Management System(LIMS)

❖ A Standard & Advanced LIMS Solution for Analytical Laboratories

- ISO 17025 Compliance through Our LIMS

    Our Laboratory Information Management System (LIMS) seamlessly integrates all the essential requirements of ISO 17025, guaranteeing complete adherence to globally recognized standards for testing and calibration laboratories.

- NABL Accreditation Support through Our LIMS

    With robust features tailored to meet NABL accreditation standards, our LIMS ensures your laboratory consistently adheres to rigorous guidelines, enhancing accuracy, traceability, and reliability across all testing and calibration processes..

    Our Laboratory Information Management System (LIMS) is designed to enhance efficiency, ensure compliance, and optimize workflows across all laboratory functions.

Advantages of our LIMS

- ## Improved Efficiency

  LIMS automates and streamlines laboratory processes, reducing manual tasks and human error, leading to faster turnaround times for tests and reports.

- ## Increased Productivity

  By automating routine tasks such as sample tracking and result reporting, LIMS frees up time for laboratory staff to focus on high-priority tasks, increasing overall productivity.

- ## Cost Savings

  LIMS helps reduce operational costs by minimizing errors, reducing paper-based processes, and improving resource utilization, leading to better overall cost management.

- ## Scalability

  As your laboratory grows, LIMS can easily scale to accommodate additional samples, tests, and users, ensuring continued efficiency without significant extra overhead.

- ## Enhanced Data Management

  It centralizes data storage, making it easy to manage, access, and retrieve test results, improving accuracy and consistency across the laboratory.

- ## Compliance and Traceability

  LIMS ensures compliance with industry standards like ISO 17025 and NABL by maintaining detailed records, audit trails, and traceability for every sample tested.

- ## Accurate Reporting

  LIMS provides customizable reporting tools, allowing laboratories to generate accurate, on-demand reports that meet regulatory requirements and client expectations.

- ## Enhanced Security

  With built-in security features, LIMS protects sensitive data through encryption, access control, and user authentication, ensuring data integrity and confidentiality.

Features of LIMS

- Centralized System
- Enterprise-Grade Security
- Enterprise-Grade Storage Capacity
- Multi User
- Easy Sample Tracking
- Generate Barcode /QR code
- Equipment Integration
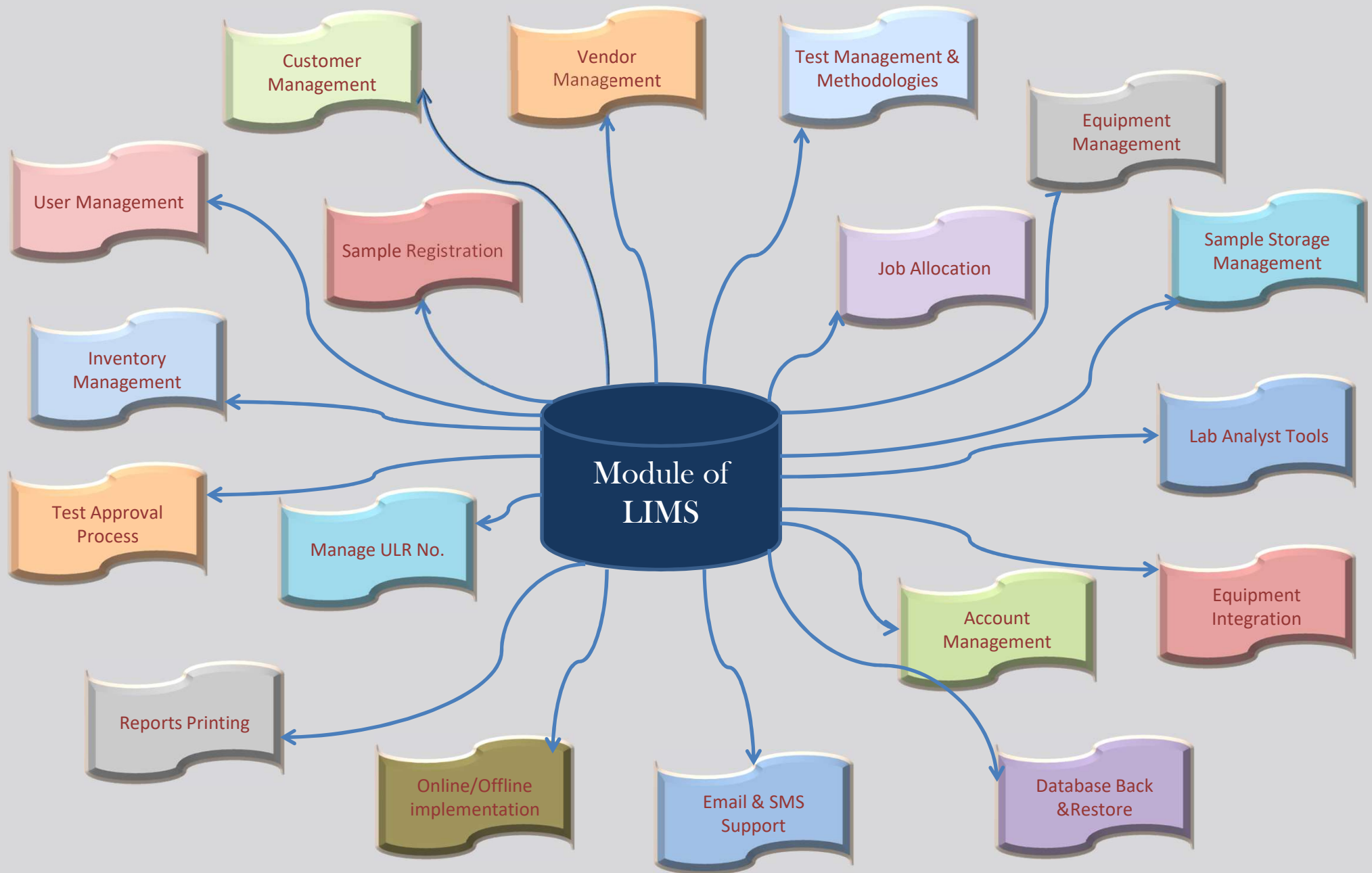- Manage ULR No.
- Real-Time Analytics Dashboard
- Verify Report Authenticity via QR Code
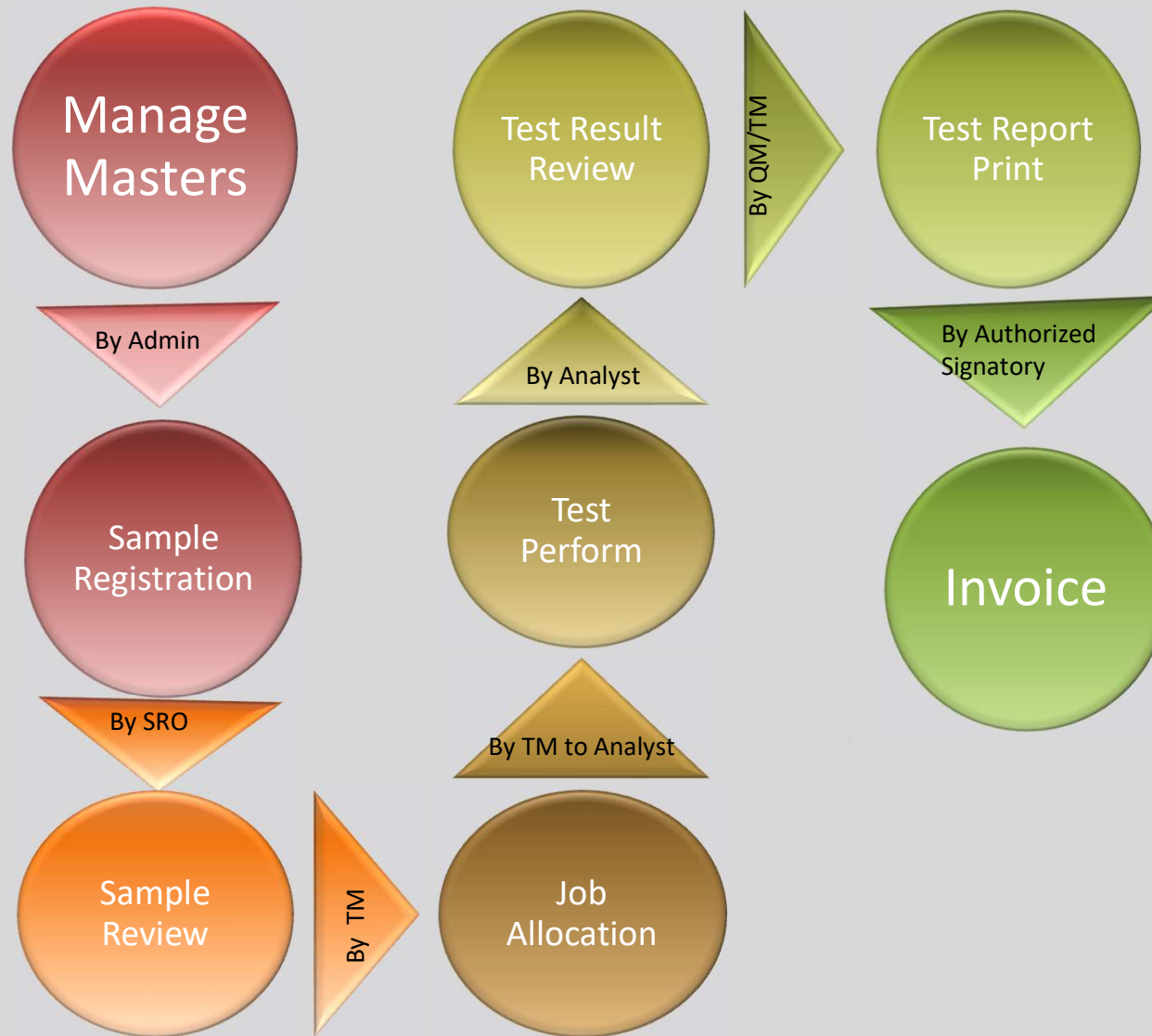- Meets NABL Regulatory Requirements
- Email & SMS Support
- Database Back &Restore
- Online/ Offline implementation

Module of LIMS

- Customer Management
- Vendor Management
- Test Management & Methodologies
- Equipment Management
- User Management
- Sample Registration
- Job Allocation
- Sample Storage Management
- Inventory Management
- Lab Analyst Tools
- Test Approval Process
- Manage ULR No.
- Account Management
- Equipment Integration
- Reports Printing
- Online/Offline implementation
- Email & SMS Support
- Database Back &Restore

LIMS System Flow

Manage Masters

By Admin

Sample Registration

By SRO

Sample Review

By TM

Job Allocation

By TM to Analyst

Test Perform

By Analyst

Test Result Review

By QM/TM

Test Report Print

By Authorized Signatory

Invoice

LIMS System Flow

Manage Masters

Masters like Department, Employee, customer, Test are needs to feed one time in system, value of these masters are used in another modules

LIMS System Flow

Sample Registration

SRF No./ work Order No., Sample No. Is generated on filling up the Sample Request / work Order form.

LIMS System Flow

Sample Review

Sample Review by QM/TM. QM/TM can Accept or Reject sample based on sample review criteria.

LIMS System Flow

Job Allocation

QM/ TM can allocate sample wise test parameter to department or analyst.
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LIMS System Flow

Test Perform

Analyst performs test and feeds observation, system will do all the calculations and validate result as per the master criteria.

LIMS System Flow

Test Review

QM will review the test result feed by analyst and approve/return based on observation, On approval ULR No will be generated for sample having NABL test parameters.

LIMS System Flow

Invoice

Account department user can generate quotation/ invoice /generate payment receipt

LIMS System Flow

Inventory Management

Inventory department can manage inventory by inward, outward and stock reports

LIMS System Flow

Equipment Calibration

System manages equipment wise calibration history and notify respective users for next calibration

LIMS System Flow

NABL Documents

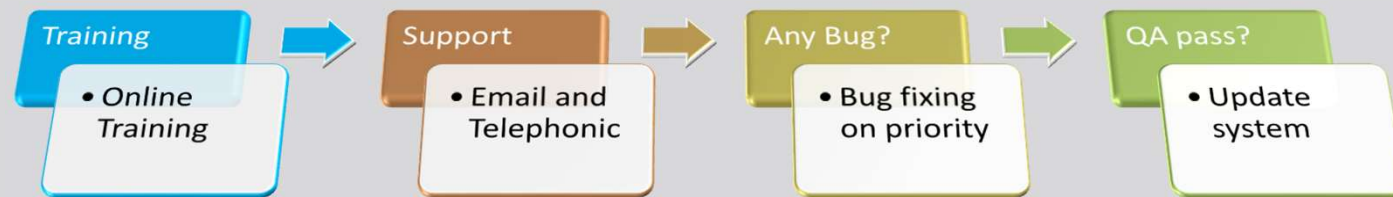System manages all the NABL audit required documents

LIMS System Flow

Customer Feedback

System manages customer feedback

LIMS Training and Support

Training
- Online Training

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Support
- Email and Telephonic

→

Any Bug?
- Bug fixing on priority

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QA pass?
- Update system

Technical details our LIMS

Front End

- ❖ *Microsoft Blazor*
- ❖ *.Net Core 8.0*
- ❖ *.Net Core Web API*

Back End

- ❖ *MySQL/ MS SQL Server*

Hosting Server Configuration

- ❖ *Windows Server 2019 or Above*
- ❖ *IIS Server Version = 10.0*
- ❖ *.Net Core 8.0*
- ❖ *VM - 16 Core, 32 GB RAM*
- ❖ *Minimum 150 GB HDD*
- ❖ *MySQL version 8.4/ MSSQL server version 2022*

Client System Configuration

- ❖ *Windows 10 or Above*
- ❖ *VM - 4 Core, 8 GB RAM*
- ❖ *Browser Support: Chrome, Edge, Firefox*

Online /Offline Hosting of our LIMS

Online Cloud-base Hosting

- ❖ Remote Accessibility
- ❖ Scalability
- ❖ *Customization*
- ❖ Automatic Updates
- ❖ Data Backup and Disaster Recovery
- ❖ Collaboration and Integration of multiple labs
- ❖ Security

Online SAAS

- ❖ *Remote Accessibility*
- ❖ *Automatic Updates & Maintenance*
- ❖ *Cost Efficiency*
- ❖ *Flexible Payment Options*
- ❖ *No Upfront Capital Expenses*
- ❖ *Security and Data Privacy*
- ❖ *Lab and user wise subscription*

Offline Hosting(On-premise Hosting)

- ❖ *Data Control and Security*
- ❖ *No Dependency on Internet Connectivity*
- ❖ *Customization*
- ❖ *One-time Cost*
- ❖ *Faster Performance*
- ❖ *No Vendor Lock-In*

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