Logilab ELN

A Generic Electronic Lab Notebook for laboratory & research teams

Logilab ELN is Agaram Technologies' time-tested generic Electronic Lab Notebook (ELN) application to transform laboratories to perform their tasks in digital and paperless manner. It is used by laboratories conducting tests/experiments and Research in various disciplines like chemistry, biology, biotech, healthcare, life sciences, energy, agriculture, engineering, metallurgy, environmental etc. Logilab ELN has specific functionality to help GxP regulated facilities.

Logilab ELN generic design overview

Labsheet or Notebook

Logilab ELN is designed to capture data in a spreadsheet like template called as Labsheet or lab notebook. Labsheets templates which can be designed by scientists by dragging and dropping generic fields into the Labsheet and creating a form like input template depending on the type of test, experiment or research task. This makes the ELN usable for any digital data capture application for lab personnel, research scientists, process and process research personnel.

Labsheets can be designed with data fields like text, numeric, dop-down list, date, time, formula, image, hyperlinks etc.,

Reporting

There is a powerful browser-based document editor available which can be used as a reporting engine. The document editor can import existing word documents to be used as a report templates, data captured within Labsheets can be automatically populated when generating template-based reports.

GxP Controls

Labsheets are version and release-controlled. Also, Labsheets can be validated before capturing data, which is a mandatory requirement for regulated and GxP labs. Data captured within the lab sheets are stored in a central database with all data. Labsheets can be reviewed and approved based on workflow.

Instrument Integration (option via Logilab SDMS)

When Logilab ELN is integrated with our SDMS, instrument data fields can be placed inside the ELN template.
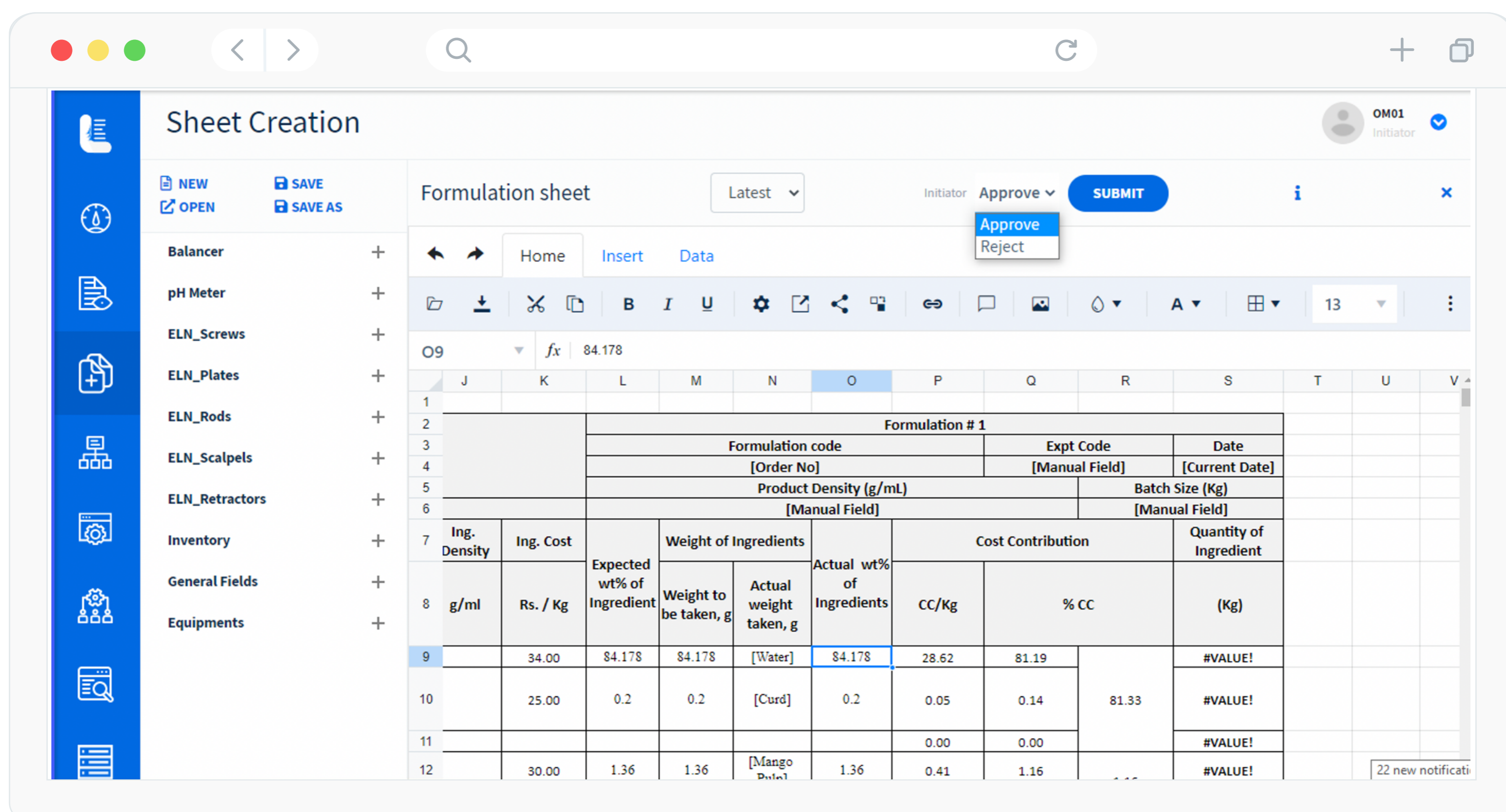
Logilab ELN Features
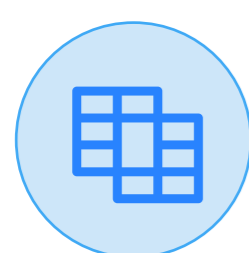
Simple, yet powerful Spreadsheet UI called Labsheets

Sheet can de designed using an Excel-like Interface. The results from the instrument output can be parsed and mapped to be populated in user-defined fields. Other fields related to the Material inventory, Equipment and general fields can also be used. The following are the salient features of Labsheets:

- ✔ Design, Review & Release of Labsheets for tests/ experiments
- ✔ Formula creation (like excel)
- ✔ Multi-sheet capability
- ✔ Creation of charts (based on sheet data)
- ✔ Import of excel sheets to quickly design templates
- ✔ Chemical Diagram functionality
- ✔ Integration of instruments (via SDMS)
- ✔ Switching of instruments
- ✔ Version control for Labsheets
- ✔ Validation of input
- ✔ Calculation across sheets/samples
- ✔ Link to multiple sheet
- ✔ Sheet Export

Easy to use Input templates

Logilab ELN provides a user-friendly configurable MS-word-like editing Interface to create different types of templates. Since it is very easy to understand and use, it provides a better user experience and considerable time-saving for the user operations. It has the following capabilities:

- ✓ Create document type content
- ✓ Create office documents
- ✓ Create form type content
- ✓ Integrated to insert Result Tables from Test Data Sheets
- ✓ Create Report Template and merge Test Results from Completed ELN Sheets.
- ✓ Ability to restore, download and upload folders/files
- ✓ Tagging of Sheet Data
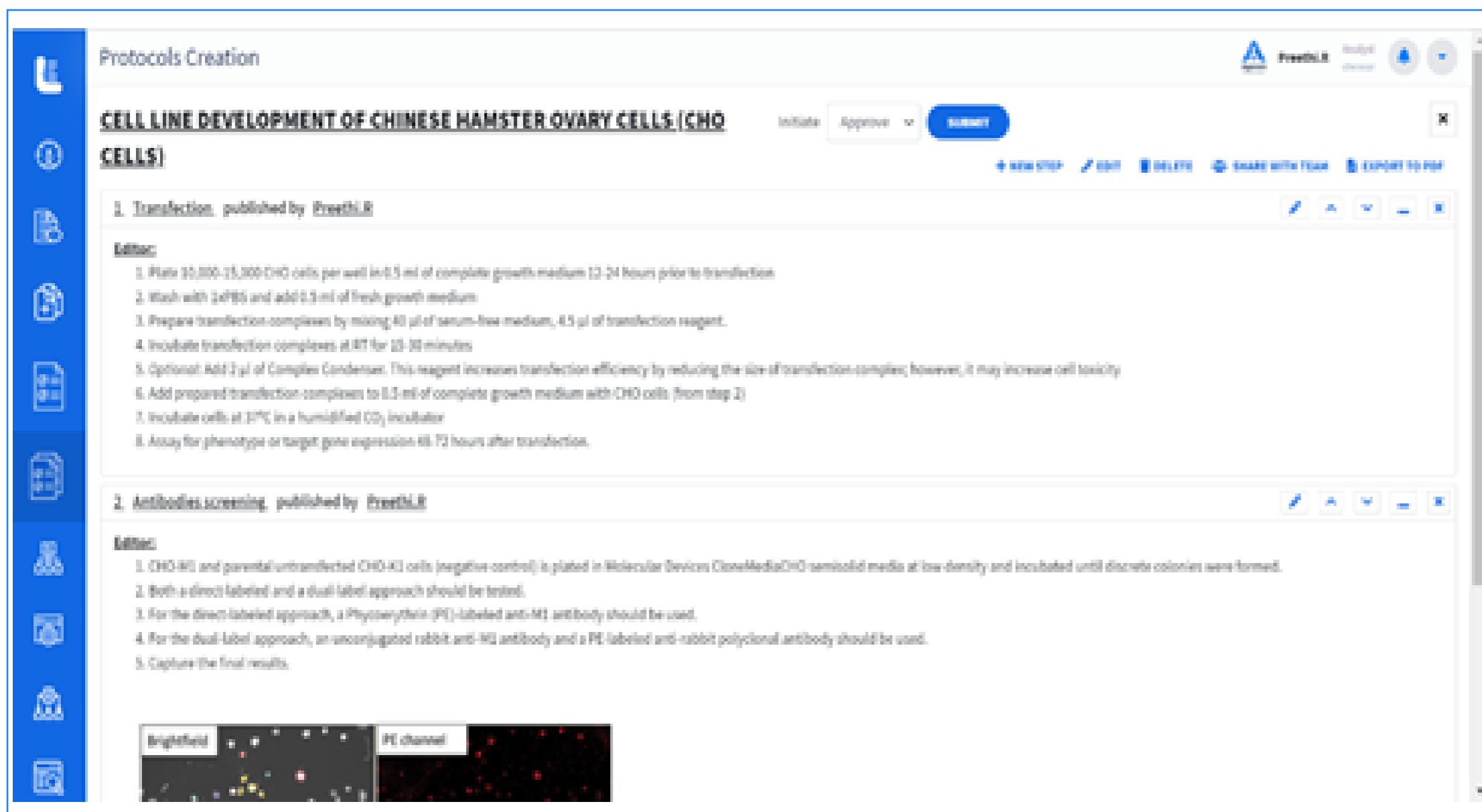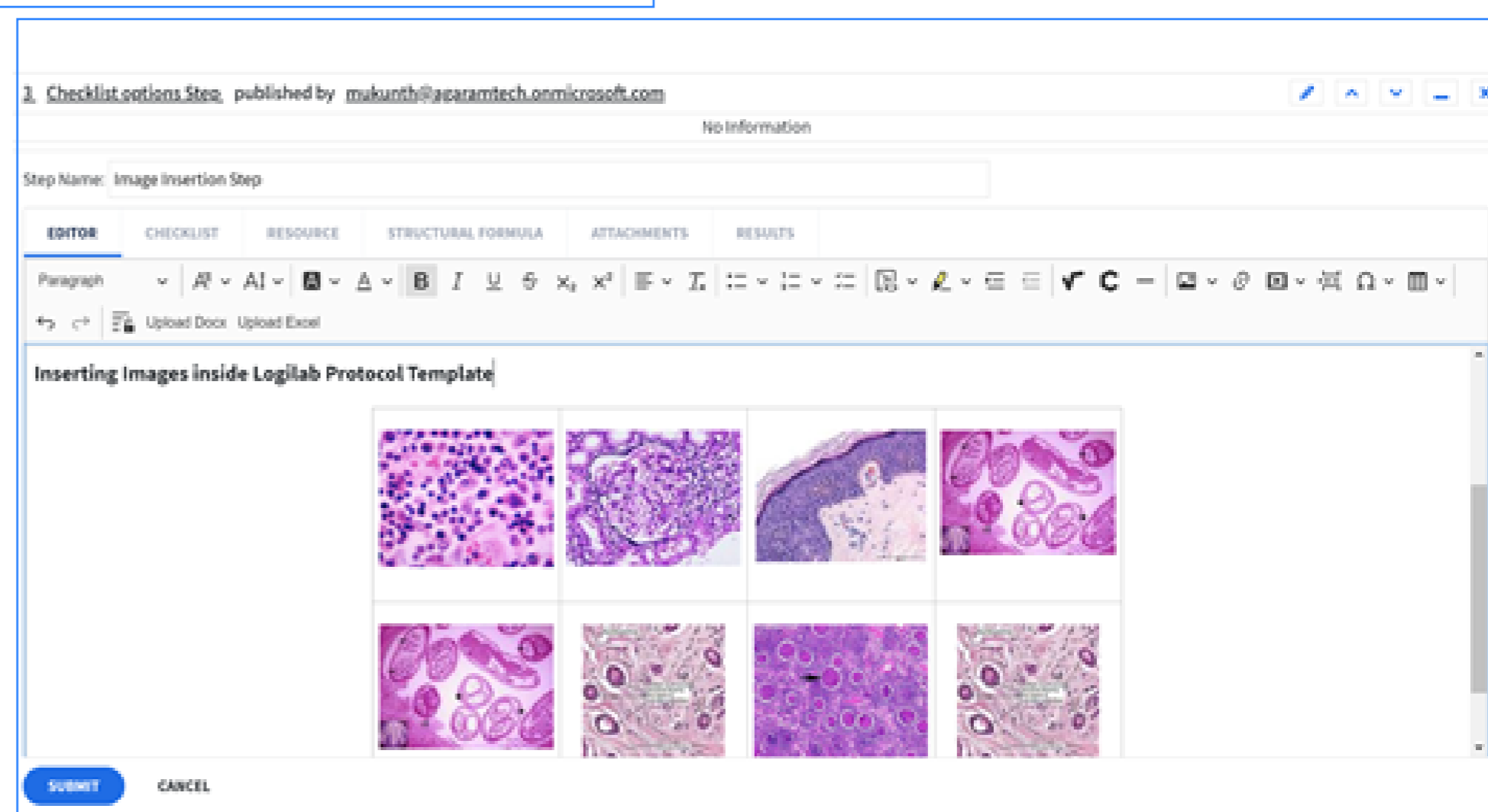- ✓ Automatic placement of data inside document

Protocols Creation - a unique feature of Logilab ELN

Logilab ELN supports protocol template-based experiments and can be shared with authorized team members. Users can create multiple protocol templates share it with reviewers and approvers. On successful completion of review and approval, the users can start using them

A powerful rich-text editor is available with the following features:

- ✔ Text Entry and Formatting like MS-word
- ✔ Insert: Tables, Special Characters, Symbols, Mathematical formulae, chemical Equations, hyperlink, video link, chemical diagrams, page-break, etc
- ✔ Collaborative editing - users can edit and share with others
- ✔ Image Import, copy/paste, positioning
- ✔ Import word and excel documents
- ✔ Lock and unlock Text editing in specific area
- ✔ Checklist features with Text, Numeric, Radio-button, check-box and drop-down options
- ✔ Features to attach multiple file types
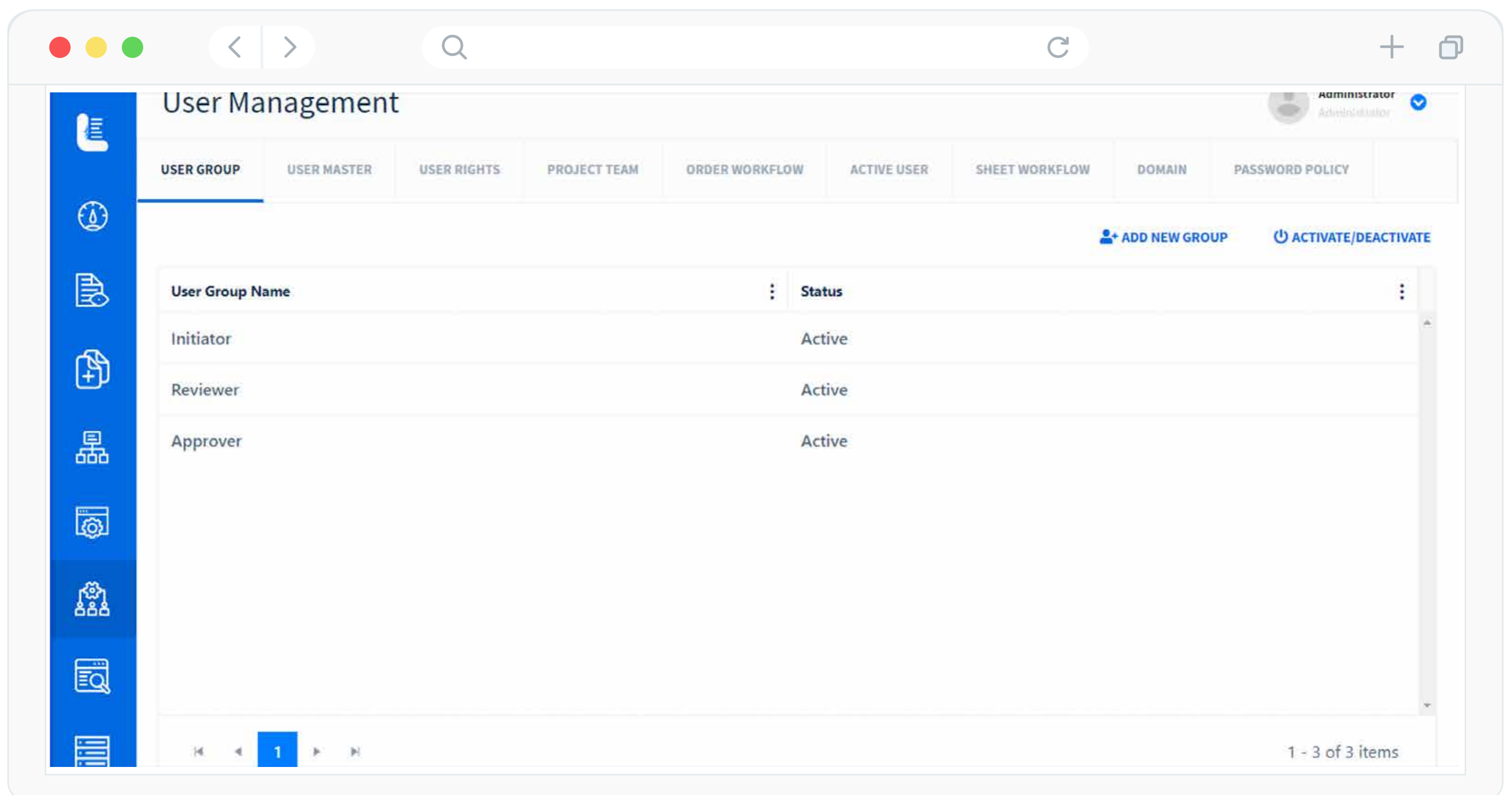- ✔ Facility to add inventory resources

Comprehensive security and control of operations – By User Management

Logilab ELN has a full-fledged user access, roles and rights management system. It facilitates the following in terms of better security and control of operations.

- ✓ Configurable User and User group Rights
- ✓ Microsoft Active Directory (ADS) integration option
- ✓ Retire/ Activate Users
- ✓ Project Team configuration
- ✓ Password Policy configuration
- ✓ Session Lockout configuration
- ✓ Auto lock of user account

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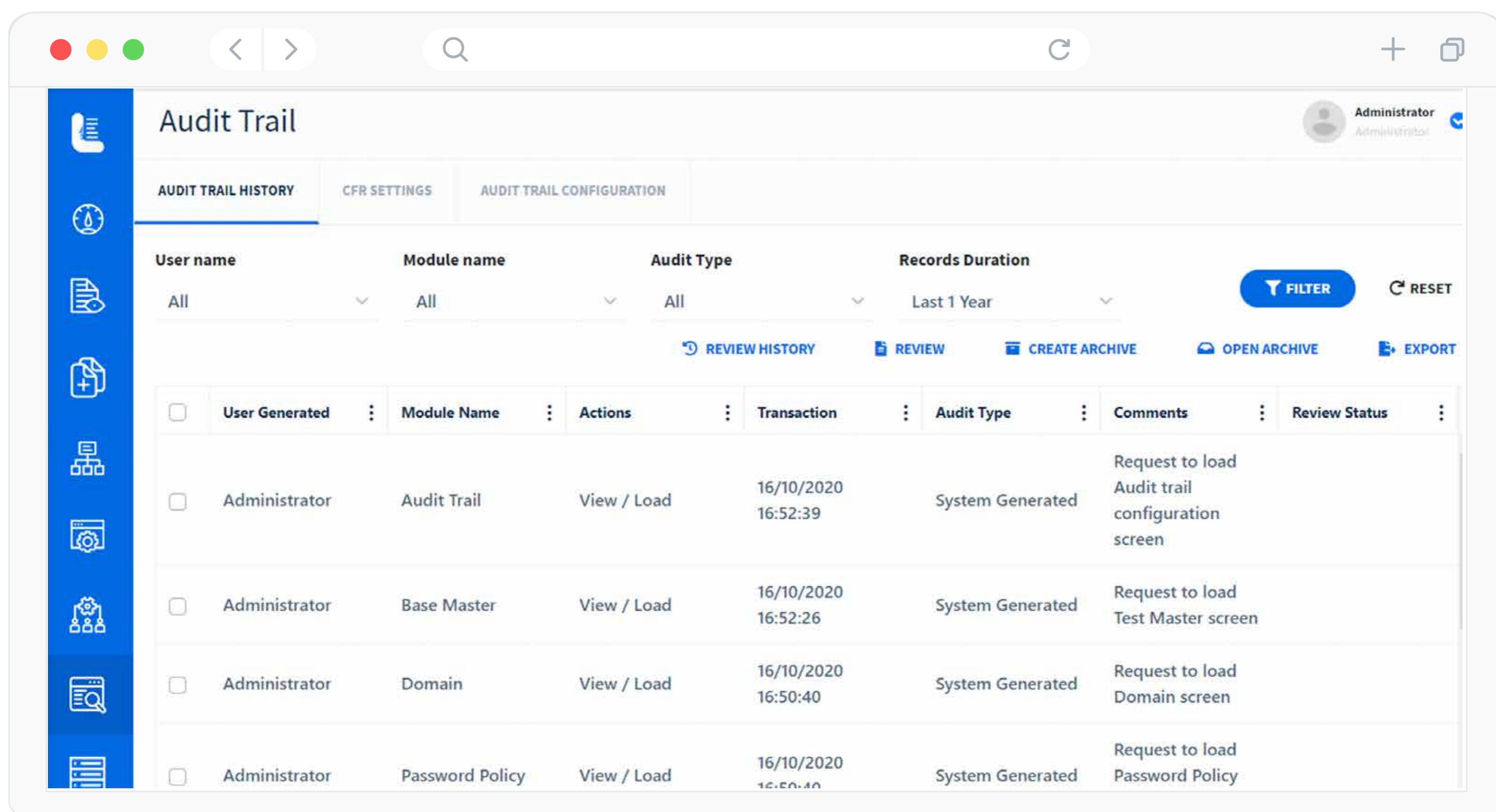
Encyclopedic Tracking & Easy Trouble-shooting – By Audit Trail

Logilab ELN has Audit trails module to ensure better tracking and easy troubleshooting by the way of following:

- ✓ Captures User Login/Logoff, Template creation, editing and versioning.
- ✓ Records the User, module name, action performed, Date & Time and comments
- ✓ Audit Trail Review & Archival functionalities
- ✓ Export of audit trail to spreadsheet
- ✓ Users can enter comments to capture relevant information

User-friendly Interface for Easy, Faster & Wider search

Logilab ELN's search functionality facilitates the user to search the data easily and faster using various search filter criteria. It has the following features:

- ✓ LIMS Task Order Synchronisation
- ✓ ELN Task Ordering
- ✓ Research Activity Ordering
- ✓ Filter by Date, Time, Order ID, Task, Project & Sample.
- ✓ View of pending and completed work
- ✓ Search & query data by fields inside the sheets
- ✓ View of Transaction History for each Order
- ✓ Export query results

Powerful but Easily configurable Dashboard

Logilab ELN provides easy-to-configure user-role-based dashboard which displays the information that are necessary for a specific user role to act upon. It also acts as a ready-reckoner to view the overall pending list and actions to be taken. Users can configure the trend chart of specific research test results/data logger that helps to make right decision without getting into the modules. It ensures focused and timely action and improving the service quality for the users. It has the following features:

- ✔ Quick overview of Orders for better monitoring
- ✔ Dashboards can be configured based on user roles – ensuring security and control
- ✔ Download Charts as report – user friendly operation
- ✔ Drill-down to transaction records – easy access to information
- ✔ Test/ Parameter based Charts – flexibility in usage
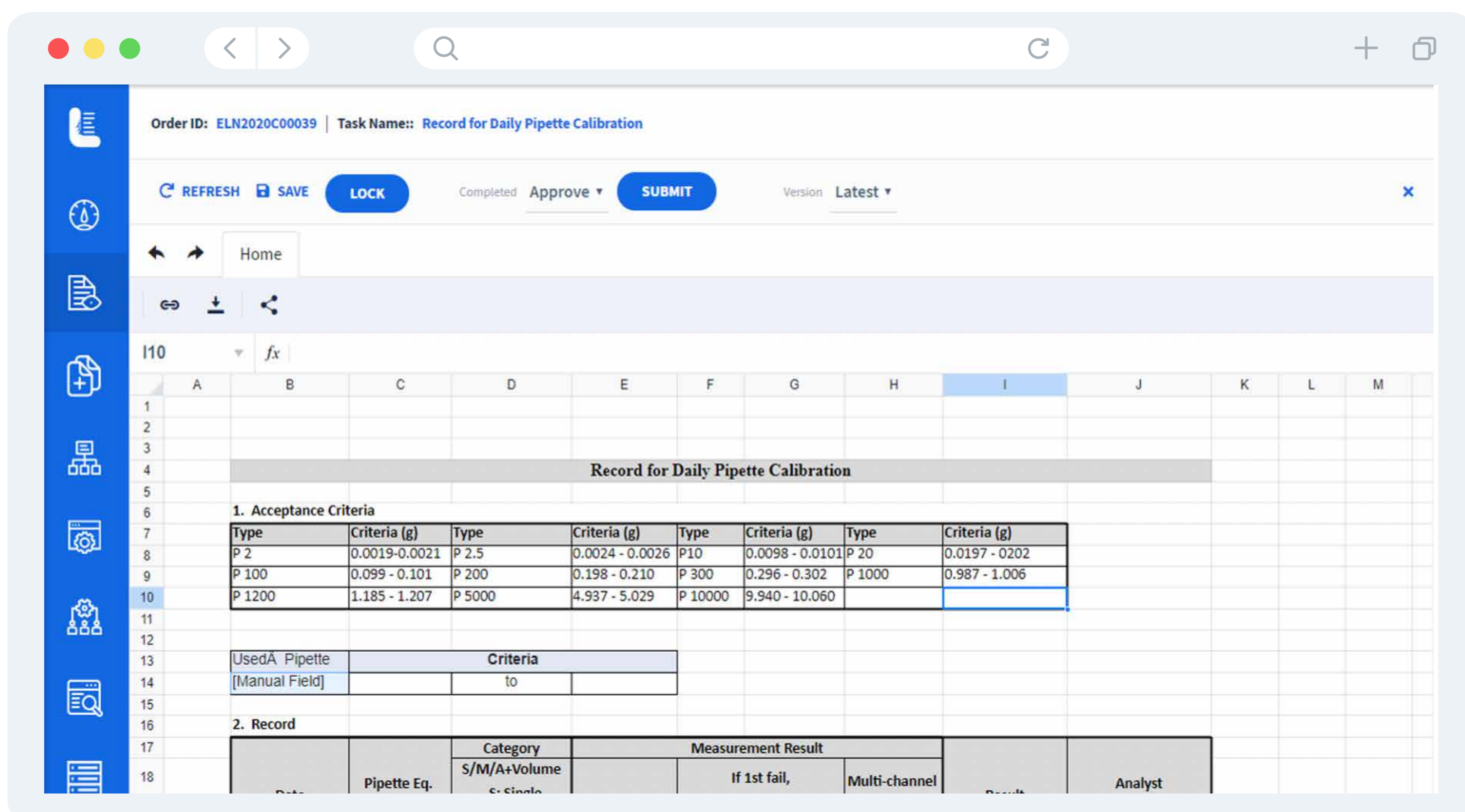- ✔ Alerts helps users to take timely action
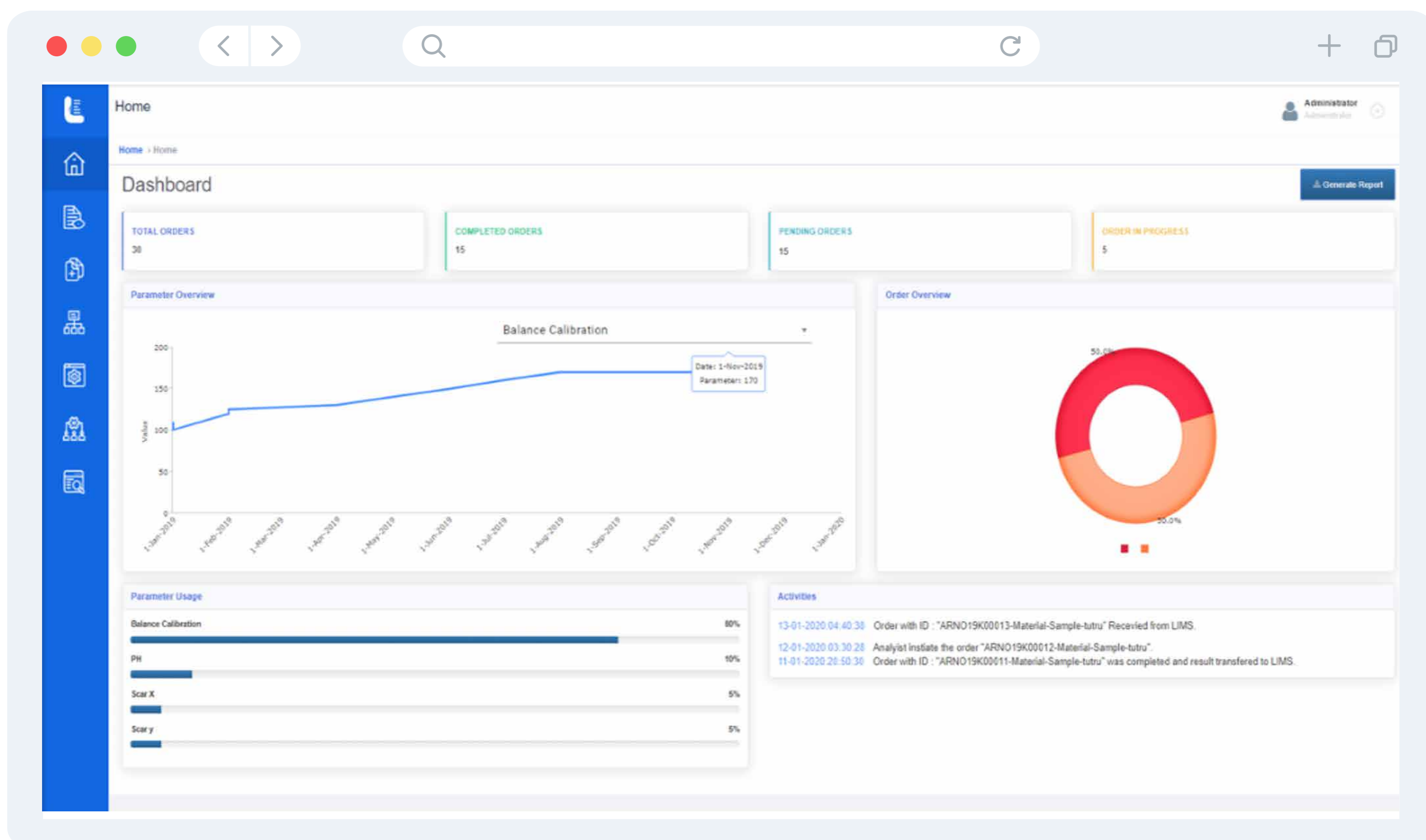
Versatile and flexible instrument data handling – By Logilab SDMS Integration

Logilab ELN, when implemented by integrating with Logilab SDMS, can capture data from any analytical instruments that are pc-based and standalone instrument via RS232 & TCP/IP protocols. Its data capturing capabilities include the following:

- ✓ Auto-calculation of values by configuring formula
- ✓ Data can be auto-populated directly from instrument by integration with Logilab SDMS
- ✓ Data is Date/time stamped
- ✓ Multiple-users can work on templates
- ✓ Data collected is versioned (data integrity)
- ✓ Re-capture of data (both instruments and manual entry)
- ✓ Mark task completion
- ✓ Review/Approval based on Workflow

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