Eusoft.Lab – Product profile
Overview LIMS Eusoft.Lab
Laboratory Information Management System

FUNCTIONAL COMPLETENESS
+
INNOVATIVE WEB TECHNOLOGIES
LIMS Overview

With Eusoft.Lab you can handle the steps of Acquisition – Processing – Archiving for all data generated by the laboratories:

- Integrated management of laboratory activities
- Time reduction of data entry and management of errors
- Full data traceability
- Application and structural safety
- Immediate availability of data
- Ensure compliance with UNI CEI EN ISO / IEC 17025, ISO 9001 and 21 CFR - PART 11 FDA
- Decision support at various levels
Main features

- Usable in any browser
- Multi-location & Multilanguage (English, Italian, French, Polish, German, Chinese)
- User-friendly and responsive interface
- Completely customizable without coding
Eusoft.Lab is a LIMS system that can handle all the steps of Acquisition – Processing – Archiving of all data generated by the laboratories and to automate all key processes (acceptance samples, insertion results, validation, generate test reports). The flexibility of Eusoft.Lab allows the laboratory to computerize the management of its activities according to custom specific workflows for each reality.
Additional Functionalities

The modules’ suite of Eusoft.Lab allows each laboratory to use only the features relevant to the activities they run. In this way, the laboratory can automate all the specific organizational workflows through the use of best practices and improve the performance of the laboratory. Eusoft.Lab includes the following modules:
Eusoft.Lab has a highly user-friendly UI, you can customize the **graphical interface** and does not require the purchase of a license to a third report designer as the latter is built into a system. The configurability of the system makes the LIMS suitable for both large and small laboratories.

A Visual design module (named Eusoft®.Studio), was created for managing customizations. It allows the **customization of the existing records** in Eusoft.Lab, as well as the **construction of new records**. This is possible through the features available in the system.
The application Eusoft.Design allows the user to:

**Customize RECORDS**
- Customization of existing registries in Eusoft.Lab and group them into categories that allow the definition of general characteristics.
- Creation of new registry usable in Eusoft.Lab, with possibility to divide them in typologies that allow to assign general characteristics.
- Creation of a repository definition of fields with name and type.

**Create NEW MODELS**
- A model corresponds to a generic form defined for every registry. In practice, a model represents a virtual registry in which the fields are defined. Every model can be in partnership with one or more registry.
- Management of a repository of fields (information), to which graphic objects are associated (e.g. textbox, menu, checkbox, dates, grate, etc.) with the relative plain (position x and y inside the graphic form) coordinates. For every graphic object the ownerships can be defined (e.g. maximum number of characters, tooltip, if mandatory, etc.).
Business Intelligence

Business Intelligence has a strategic importance in all companies. It allows a business to apply IT technologies, methodologies and predictive analytics to extract information and knowledge aimed at improving the efficiency and timeliness of decision-making. Quality control and other testing laboratories exploit LIMS to perform advanced processing and analysis of data through the use of KPIs (Key Performance Indicators) and dashboards.

Eusoft's Business Intelligence module allows the laboratory to evaluate its performance using KPIs from data generated in Eusoft.Lab. Each laboratory can configure KPIs allowing effective use of the analytical data to support strategic decision making. It allows the generation of complex graphs for the representation of data that can then be shared with other business processes.

The module can be used by all the members of staff involved in various capacities, in the management of analytical data (Laboratory, Quality, analysts and lab technicians). Each user will use dashboards most suited to their needs, choosing from existing ones (e.g. Number accepted samples/analysed, average daily samples accepted), or creating new ones.
EusoftApp – Mobile application

EusoftAPP is the first Mobile APP for Android and IOS made by Eusoft that interfaces with our LIMS Eusoft.Lab.

A laboratory can use mobile Apps to:

- enter results
- manage products in stock
- display intervention plans on expiring equipment to enter activities
- extract and view the laboratory of performance indicators directly from the mobile tools.

With the APP, LIMS is always at your fingertips, no matter where it is
Easy to use and highly scalable

Access to data any time and anywhere

Pay-per-use logic

Accessible also by external users

Always the updated product version
Cloud Computing is very attractive for companies that want a quick delivery and high efficiency from their IT services, it is also true that poses new challenges in terms of security and privacy of personal data. The supplier must recognize the value of data and the importance of providing a steady and secure so it is important to use cloud computing infrastructures reliable. Eusoft relies on cloud computing platform Microsoft Windows Azure.

Microsoft is committed to achieve a leadership role on the procedures of security, privacy and compliance. The Windows Azure platform services are offered to customers through a network of global data centers, designed to run 24 hours on 24, 7 days out of 7 and the use of various measures to protect operations from any power outages, physical intrusion, and network outages.
These data centers comply with industry standards such as ISO / IEC 27001, the only international award that ensures the implementation of procedures inspired by the highest standards in security and data protection. Continuity of service for cloud applications is guaranteed by Microsoft to 99.9% and is derived from a framework dedicated to the Service Continuity Management based on best practices in the industry. Microsoft has a more comprehensive approach than any other company in relation to European laws on security and data protection. Customers can specify the geographic area of the Microsoft data centers that will store your data (such as in Europe, Asia or the USA). Eusoft specifies service level agreements (SLAs) in their contracts of Cloud Computing with which ensures functionality, availability of resources and maximum time of application availability.
You can restore a database that was deleted during its retention period to the point at which it was deleted. The retention period is determined by the service tier of the database while it existed or the number of days where the database exists, whichever is less.

Geo-Restore is the most basic disaster recovery option available in Azure SQL Database. The weekly full backup and at least one daily differential backup are stored in a Geo-redundant storage to protect against region wide failures. When you submit a restore request, the database will be restored to the most recent daily backup.

The backup retention period varies by the database service tier and goes from 7 days to 35 days.
Microsoft Azure SQL Database has built-in backups to support self-service Point in Time Restore and Geo-Restore. Azure SQL Database automatically creates backups of every active database. Every hour a backup is taken and geo-replicated to enable the 1 hour recovery point objective (RPO) for Geo-Restore. Additionally, transaction log backups are taken every 5 minutes to enable Point in Time Restore. Backup storage is the storage associated with your automated database backups that are used for Point in Time Restore and Geo-Restore. Azure SQL Database provides up to 200% of your maximum provisioned database storage of backup storage at no additional cost. Point in Time Restore is designed to recover a database to a specific point in time within the backup retention period supported by the service tier of the database.
Eusoft.Lab is based on SOA (service-oriented architecture), a software architecture that supports the use of Web services to ensure interoperability between different systems so as to allow the use of individual applications as business process components and meet the requirements of users in integrated and transparent mode. In a SOA you can simply set the mode of interaction between services or the combination in which services are used in the process. In addition, it is easier to add new services and change processes to meet specific business requirements.
The proprietary framework of Eusoft (Eusoft Framework) which is used to develop Eusoft.Lab 10, consists of:

- **Database Layer** that uses Microsoft Entity Framework to manage access to the database decoupling the data of system configuration (Application Repository) by application data (Application Databases)

- **Middle layer** that contains the standard services used by the business logic services to access to common functionalities

- **The application layer** contains the business services that can be used by the user interface layer (UI) for the presentation. This allows you to have common business logic services using different presentation layer: in fact Eusoft.Lab 10 provides the presentation layer for Web client and both the presentation layer for Mobile client

Using an architectural model that provides a separation between the various layers, scalability, upwards or downwards, can be performed on the Database Server or on the Application Server in an independent manner avoiding generalized bottlenecks.
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