

# **INSTALLATION GUIDE**

Version 6.7.3





## CONTENTS

| 1 | Pre | eface             | 3   | 4 |  |  |  |  |
|---|-----|-------------------|---|---|--|--|--|--|
|   | 1.1 | Audience4         |   |   |  |  |  |  |
|   | 1.2 | 1.2 Prerequisites |   |   |  |  |  |  |
|   | 1.3 | Doc               | cumentation Accessibility   | 4 |  |  |  |  |
|   | 1.4 | Cor               | nventions   | 5 |  |  |  |  |
|   | 1.4 | .1                | Keyboard  | 5 |  |  |  |  |
|   | 1.4 | .2                | Callout   | 5 |  |  |  |  |
| 2 | Sy  | stem              | n requirements  | 6 |  |  |  |  |
|   | 2.1 | Har               | dware Requirements  | 6 |  |  |  |  |
|   | 2.2 | Sof               | tware Requirements  | 7 |  |  |  |  |
| 3 | Ins | stalla            | tion  | 8 |  |  |  |  |
|   | 3.1 | Cre               | ating Archive Database for ELN  | 8 |  |  |  |  |
|   | 3.2 | Cre               | ating Database in MongoDB1  | 0 |  |  |  |  |
|   | 3.3 | Inst              | talling Logilab ELN1  | 4 |  |  |  |  |
|   | 3.3 | 8.1               | Edit application.properties file in LIMSLabSheet_Service-1.0.1\WEB-INF\classes Folder 1 | 5 |  |  |  |  |
|   | 3.3 | 8.2               | Edit application.properties file in ELN-0.0.1-SNAPSHOT\WEB-INF\classes Folder1          | 7 |  |  |  |  |
|   | 3.3 | 3.3               | Connecting LIMS1  | 9 |  |  |  |  |
| 4 | An  | nexu              | ıre2  | 3 |  |  |  |  |
|   | 4.1 | Ton               | ncat Maximum Memory Setting2  | 3 |  |  |  |  |
|   | 4.2 | Ens               | sure Client Protocols are Enabled2  | 4 |  |  |  |  |



## **TABLE OF FIGURES**

| FIGURE: Creating Archive DB for ELN                               | 8  |
|---|----|
| FIGURE: New Database Dialog                                       | 9  |
| FIGURE: New Archive DB Created                                    | 10 |
| FIGURE: New Connection Screen                                     | 11 |
| FIGURE: New Connection Screen                                     | 11 |
| FIGURE: Database Screen   | 12 |
| FIGURE: Create Database Dialog                                    | 12 |
| FIGURE: Database Created  | 13 |
| FIGURE: MongoDB Showing Stored ELN Sheets and Orders              | 13 |
| FIGURE: ELN Installation Folders                                  | 14 |
| FIGURE: Copying ELN Installation Folder to Tomcat webapps Folder  | 14 |
| FIGURE: ELN-0.0.1-SNAPSHOT and LIMSLabSheet_Service-1.0.1 Folders | 15 |
| FIGURE: Opening application.properties File                       | 16 |
| FIGURE: Editing Script in LIMSLabSheet_Service-1.0.1 File         | 16 |
| FIGURE: Opening application.properties File                       | 17 |
| FIGURE: Editing Script in application.properties file             | 18 |
| FIGURE: Connect LIMS Using LIMSLabSheetService                    | 19 |
| FIGURE: Connect LIMS Directly                                     | 20 |
| FIGURE: Editing index.html File                                   | 20 |
| FIGURE: Updating Server name and Port No of SDMS DB               | 21 |
| FIGURE: Checking Service Status                                   | 21 |
| FIGURE: Logilab ELN Login Screen                                  | 22 |
| FIGURE: Apache Tomcat Properties – Java Tab                       | 24 |
| FIGURE: SQL Server Configuration Manager – Client Protocols       | 25 |



# 1 Preface

This guide provides instructions about installing and configuring Logilab ELN. This preface contains these topics:

- <u>Audience</u>
- Prerequisites
- Documentation Accessibility
- <u>Conventions</u>

## 1.1 Audience

Logilab ELN Installation Guide is intended for administrators or anyone installing LogilabELNon a computer.

### 1.2 Prerequisites

- A supported Microsoft Windows operating system installed and evaluated on your computer system.
- Apache Tomcat Manager 8.0 or above installed with memory pool up to 4GB maximum. Click here for more information on how to set maximum memory in Tomcat server.
- Make sure that the Client Protocols are enabled in SQL Server Configuration Manager. Click here
  for more information on how to ensure client protocols are enabled in SQL Server Configuration
  Manager.
- Administrative privileges on the computer where you installed SQL Database software.
- Knowledge about the following concepts:
  - o Firewalls
  - Public and private networks
  - o Connected applications.

### 1.3 Documentation Accessibility

Logilab ELN documentation set consists of the following:



- 1. Logilab ELN Installation Guide v 6.7.3-SQL Server
- 2. Logilab ELN Installation Guide v 6.7.3-PostgreSQL
- 3. Logilab ELN User Manual v6.7.3

### 1.4 Conventions

The following text conventions are used in this document:

### 1.4.1 Keyboard

Keys are referred to throughout the guide in the following way:

[ENTER] - denotes the return or enter key, [DELETE] - denotes the Delete key and so on.

Where a command requires two keys to be pressed, the manual displays this as follows:

[CTRL][P] – this means press the letter "p" while holding down the Control key.

### 1.4.2 Callout

Callouts are used to denote an action or describe something in the interface.





# 2 System requirements

## 2.1 Hardware Requirements

| Computer         | Component      | Minimum requirement  |  |
|------------------|----------------|--|--|
| Client Processor |                | Pentium IV   |  |
|                  |                | More than 700 MHz  |  |
|                  | RAM            | 16 GB or higher  |  |
|                  | Hard disk      | 20 GB of free space  |  |
|                  | Network Access | 100 Mbps speed or higher   |  |
| Server           | Processor      | Xeon Class   |  |
|                  |                | 3GHz   |  |
|                  | RAM            | 16GB or higher   |  |
|                  | Hard disk      | 40 GB of free space for installation of database and App server. |  |
|                  |                | Minimum RAID I for data protection                               |  |



## 2.2 Software Requirements

| Computer | Minimum requirement  |
|----------|--|
| Client   | Windows 8 or Windows 10 (normal version) or higher                               |
|          | Latest version of Google Chrome  |
| Server   | Microsoft® Windows® 2016 server or higher.                                       |
|          | Up to MS SQL Server 2019   |
|          | Apache Tomcat Manager 8.0 or above installed with memory pool up to 4GB maximum. |
|          | MongoDB 5.0.18   |



# 3 Installation

To Install Logilab ELN, you must create archive database, and then install ELN.

Logilab ELN installation process consists of the following steps:

Step 1: Creating Archive Database for ELN

Step 2: Installing Logilab ELN

### 3.1 Creating Archive Database for ELN

To create archive database for ELN, follow these steps:

- 1. Open Microsoft SQL Management Studio (Administrator).
- 2. Right-click Database and then click New Database as shown in the figure:



FIGURE: Creating Archive DB for ELN

The *New Database* dialog appears as shown in the figure:



| slp |                           |                 |           |                           |                   |                   |        |          |
|-----|---------------------------|-----------------|-----------|---------------------------|-------------------|-------------------|--------|----------|
| ,8  | New Database              |                 |           |                           |                   | -                 |        | $\times$ |
|     | Select a page             | 🗊 Script 👻 🕜    | Help      |                           |                   |                   |        |          |
|     | P Filegroups              | Database name   |           |                           |                   |                   |        |          |
|     |                           | Owner:          |           | <pre>(default&gt;)</pre>  |                   |                   |        |          |
|     |                           | Use full-text i | ndexing   |                           |                   |                   |        |          |
|     |                           | Database files: |           |                           |                   |                   |        |          |
|     |                           | Logical Name    | File Type | Filegroup                 | Initial Size (MB) | Autogrowth / Max  | size   | F        |
|     |                           | -               | ROWS      | PRIMARY<br>Not Applicable | 8                 | By 64 MB, Unlimit | ted    | - 1      |
|     |                           | Log             | 100       | rvot Applicable           | 0                 | by 64 MB, Unime   | 160    |          |
|     |                           |                 |           |                           |                   |                   |        |          |
|     |                           |                 |           |                           |                   |                   |        |          |
|     |                           |                 |           |                           |                   |                   |        |          |
|     | Connection                |                 |           |                           |                   |                   |        |          |
|     | Server:                   |                 |           |                           |                   |                   |        |          |
|     | Connection                |                 |           |                           |                   |                   |        |          |
|     | 53                        |                 |           |                           |                   |                   |        |          |
|     | Vew connection properties |                 |           |                           |                   |                   |        |          |
|     |                           |                 |           |                           |                   |                   |        |          |
|     |                           |                 |           |                           |                   |                   |        |          |
|     | Progress                  |                 |           |                           |                   |                   |        |          |
|     | Ready                     | <               |           |                           |                   |                   |        | >        |
|     | $\sim$                    |                 |           |                           | Add               |                   | Remove |          |
|     |                           |                 |           |                           |                   | OK                | Car    | icel     |
|     |                           |                 |           |                           |                   |                   | •      | -        |

FIGURE: New Database Dialog

- 3. In the *New Database* dialog, in the *Database name* field, type a name for the archive database you want to create.
- 4. Click **Ok**. You can see the new archive database created and appears as shown in the figure:





FIGURE: New Archive DB Created

### 3.2 Creating Database in MongoDB

1. In the MongoDB **New Connection** screen, click **Fill in connection fields individually**. as shown in the figure:



| <ul> <li>MongoDB Compass - Connect</li> <li>Connect View Help</li> </ul> |  | >   | × |
|--|--|---|---|
| * New Connection   |  |   |   |
| 🛨 Favorites  |  |   |   |
| ී Recents  | Fill in connection fields individually   |   |   |
|  | Paste your connection string (SRV or Standard (6)<br>e.g. mongodb+srv://username.password@cluster0-jtpxd.mongodb.net/admin | New to Compass and don't have a cluster?<br>If you don't already have a cluster, you can create<br>one for free using <u>MongcOB Atlas</u> .<br>CREATE FREE CLUSTER   |   |
|  |  | How do I find my connection string in Atlas?<br>If you have an Atlas cluster, go to the Cluster view.<br>Click the 'Connect' button for the cluster to which<br>you wish to connect.<br>See example<br>How do I format my connection string?<br>See example |   |

FIGURE: New Connection Screen

The screen appears as shown in the figure:

| MongoDB Compass - Connect Connect View Help |                          | - 🗆 X  |
|---|--------------------------|--|
| * New Connection                            |                          |  |
| ★ Favorites                                 | New Connection @FAVORITE |  |
| D Recents                                   | Pase controllor sung     |  |
| A DAY AGO<br>localhost:27017                | Hostname More Options    | New to Compass and don't have a cluster?   |
| A DAY AGO<br>localhost:27017                | Hesterne                 | If you don't already have a cluster, you can create<br>one for free using <u>MongoDB Atlas</u> . |
| A MINUTE AGO<br>localhost:27017             | incarinaria              | CREATE FREE CLUSTER  |
|   | Port 27017               |  |
|   | SRV Record               | How do I find my username and password?<br>If your mongod instance has authentication set up,    |
|   | Authentication None *    | you'll need the credentials of the MongoDB user<br>that is configured on the project.            |
|   | CONNECT                  |  |
|   |                          |  |

FIGURE: New Connection Screen

2. Under **Hostname**, in the **Hostname** and **Port** fields, ensure that the default host name and port number of MongoDB is filled and then click **CONNECT**. The screen appears as shown in the figure:



| MongeDB Compass - localhost27017     Connect View Hele |                       |              |             | -       |   | × |
|--|-----------------------|--------------|-------------|---------|---|---|
| Local 4  | Databases Performance |              |             |         |   |   |
| → ±08S ± COLLECTIONS C<br>→ ENVIORE                    | CREATE DATABASE       |              |             |         |   |   |
| HOST   | Database Name *       | Storage Size | Collections | Indexes |   |   |
| localhost:27017<br>CLUSTER<br>Standalone               | edmin                 | 20.0KB       | 0           | 1       | 8 |   |
| EDITION<br>MongoDB 4.4.1 Community                     | config                | 4.0KB        | 0           | 2       | 8 |   |
| Q Filter your data                                     | local                 | 20.0KB       | 1           | 1       | 8 |   |
| > admin<br>> config<br>> local                         |                       |              |             |         |   |   |
| •  |                       |              |             |         |   |   |
| >_MongoSH Beta   |                       |              |             |         |   | ^ |

FIGURE: Database Screen

3. Click **CREATE DATABASE**. The **Create Database** dialog appears as shown in the figure:

| Create Database  |                             |
|--|-----------------------------|
|  |                             |
| Database Name  |                             |
| ELN  |                             |
| Collection Name  |                             |
| ELN  |                             |
| Capped Collection ()   |                             |
| Use Custom Collation ()  |                             |
|  |                             |
| Before MongoDB can save your new database, a coll<br>also be specified at the time of creation. <u>More Inform</u> | lection name must<br>nation |
|  |                             |
| CANCEL   | CREATE DATABASE             |

FIGURE: Create Database Dialog

- 4. In the Database Name field, type the database name. Example: ELN
- 5. In the Collection Name field, type collection name. Example: ELN



6. Click **CREATE DATABASE**. The database is created and appears as shown in the figure:

| MongoDB Compass - Io     Connect View Help | calhost:27017 |                       |              |             |         | - |   | × |
|--|---------------|-----------------------|--------------|-------------|---------|---|---|---|
| Locel                                      | •             | Databases Performance |              |             |         |   |   |   |
|  | ions C        | CREATE DATABASE       |              |             |         |   |   | _ |
| HOST                                       |               | Database Name *       | Storage Size | Collections | Indexes |   |   |   |
| localhost:27017<br>CLUSTER<br>Standalone   |               | ELN                   | 4.0KB        | 1           | 1       |   | 8 |   |
| EDITION<br>MongoDB 4.4.1 Co                | mmunity       | admin                 | 20.0KB       | 0           | 1       |   | 8 |   |
| Q Filter your data                         |               | config                | 20.0KB       | 0           | 2       |   | 8 |   |
| > ELN<br>> admin                           |               | local                 | 20.0KB       | 1           | 1       |   | 8 |   |
| > local                                    |               |                       |              |             |         |   |   |   |

#### FIGURE: Database Created

At runtime, you see the orders, sheets etc. created stored in MongoDB appear as shown in the figure.

| • Mongo08 Compass - localhost:27017 — 🗆 🗙 |                           |              |             |         |   |   |
|---|---------------------------|--------------|-------------|---------|---|---|
| Connect View Help                         |                           |              |             |         |   |   |
| Local                                     | Databases     Performance |              |             |         |   |   |
| ✓ 4DBS ■COLLECTIONS C<br>→ CHICODITE      | CREATE DATABASE           |              |             |         |   | _ |
| HOST                                      | Database Name *           | Storage Size | Collections | Indexes |   |   |
| localhost:27017<br>CLUSTER<br>Standalone  | ELN                       | 1.7MB        | 7           | 9       | 8 |   |
| EDITION                                   | admin                     | 20.0KB       | 0           | 1       | 8 |   |
|   | config                    | 12.0KB       | 0           | 2       | B |   |
| ELN<br>fs.chunks                          | local                     | 48.0KB       | 1           | 1       | 8 |   |
| fs.files                                  |                           |              |             |         |   |   |
| orderCreation<br>orderVersion             |                           |              |             |         |   |   |
| sheetCreation                             |                           |              |             |         |   |   |
| sheetVersion                              |                           |              |             |         |   |   |
| > local                                   |                           |              |             |         |   | 1 |
| •   |                           |              |             |         |   |   |

#### FIGURE: MongoDB Showing Stored ELN Sheets and Orders



### 3.3 Installing Logilab ELN

To Install Logilab ELN, follow these steps:

1. Open the folder that contains ELN installation files as shown in the figure:

| $\leftarrow$ $\rightarrow$ $\uparrow$ $\bigcirc$ $\square$ $\rightarrow$ This PC $\rightarrow$ Project Space (D:) $\rightarrow$ Agaram Build $\rightarrow$ Logilab ELN MS SQL $\rightarrow$ 6.7.3 $\rightarrow$ 20240926 $\rightarrow$ |   |                  |             |             |  |  |
|--|---|------------------|-------------|-------------|--|--|
| 🕀 New ~  | $\textcircled{\ } \mathbb{N}ew \ \ } \ \ \swarrow \ \ \ \textcircled{\ } \mathbb{N} \ \ \mathbb{N}ew \ \ \ \ \mathbb{N} \ \mathbb{N} \ \mathbb{N} \ \mathbb{N} \ \ \mathbb{N} \ \mathbb{N} \ \ \mathbb{N} \ \ \mathbb{N} \ \mathbb{N} \ \mathbb{N} \ \mathbb{N} \ \mathbb{N} \ \mathbb{N} \ \mathbb{N} \ \ \mathbb{N} \ \mathbb{N} \ \mathbb{N} \ \mathbb{N} \ \mathbb{N} \ \ \mathbb{N} \ $ |                  |             |             |  |  |
| A Home   | Name  | Date modified    | Туре        | Size        |  |  |
| R Gallery  | ELN ELN   | 26-09-2024 12:19 | File folder |             |  |  |
|  | ELN-0.0.1-SNAPSHOT.war  | 26-09-2024 12:24 | WAR File    | 2,19,020 KB |  |  |
| <ul> <li>Desktop </li> <li></li></ul>  |   |                  |             |             |  |  |

FIGURE: ELN Installation Folders

2. Copy the *ELN* folder and *ELN-0.0.1-SNAPSHOT.war* to the *webapps* folder in the Tomcat server as shown in the figure:

*Note:* If LIMS LabSheet\_Service is involved, then you must copy the LIMSLabSheet\_Service-1.0.1.war file along with other files to the webapps folder.

Ensure that the Tomcat server is stopped when you copy these folders into the *webapps* folder.

| <b>i</b> > | This PC > Windows (C:) > Program Files > Apache Software Foundation > Tomcat 9.0 > webapps > |                     |             |             |  |  |  |  |  |
|------------|--|---------------------|-------------|-------------|--|--|--|--|--|
| ona        | Name   | Date modified       | Туре        | Size        |  |  |  |  |  |
| 1          | adocs  | 07-03-2022 05:44 PM | File folder |             |  |  |  |  |  |
|            | ELN  | 21-04-2023 06:06 PM | File folder |             |  |  |  |  |  |
|            | ELN-0.0.1-SNAPSHOT   | 21-04-2023 06:06 PM | File folder |             |  |  |  |  |  |
| - 1        | 📜 manager  | 07-03-2022 05:44 PM | File folder |             |  |  |  |  |  |
| *          | CuaLIS   | 07-03-2022 05:53 PM | File folder |             |  |  |  |  |  |
| *          | QuaLISJrxml_Reports  | 07-03-2022 05:48 PM | File folder |             |  |  |  |  |  |
| *          | 📒 QuaLISWeb  | 07-03-2022 05:53 PM | File folder |             |  |  |  |  |  |
|            | E ROOT   | 30-12-2022 07:18 PM | File folder |             |  |  |  |  |  |
|            | ELN-0.0.1-SNAPSHOT.war   | 21-04-2023 05:13 PM | WAR File    | 72,750 KB   |  |  |  |  |  |
|            | DuaLIS.war   | 07-02-2022 03:38 PM | WAR File    | 1,42,743 KB |  |  |  |  |  |
| No         | QuaLISWeb.war  | 07-02-2022 03:38 PM | WAR File    | 13,965 KB   |  |  |  |  |  |
| - 1        |  |                     |             |             |  |  |  |  |  |

FIGURE: Copying ELN Installation Folder to Tomcat webapps Folder



 Start Tomcat service in services.msc. The *ELN-0.0.1-SNAPSHOT* and *LIMSLabSheet\_Service-1.0.1* folders are generated inside the *webapps* folder as shown in the figure:

| A Home   | Name                          | Date modified       | Type        | Size   |
|--|-------------------------------|---------------------|-------------|--------|
| <ul> <li>OneDrive - Personal</li> </ul>        | docs                          | 08-09-2022 02:47 PM | File folder |        |
| Desktop  | ELN                           | 15-12-2022 10:31 AM | File folder |        |
| Documents                                      | ELN-0.0.1-SNAPSHOT            | 15-12-2022 10:32 AM | File folder |        |
| Pictures                                       | LIMSLabSheet_Service-1.0.1    | 22-11-2022 12:01 PM | File folder |        |
|  | 🚞 manager                     | 08-09-2022 02:47 PM | File folder |        |
| ↓ Downloads                                    | ROOT                          | 30-09-2022 04:42 PM | File folder |        |
| 1 Music  | ELN-0.0.1-SNAPSHOT.war        | 14-12-2022 08:15 PM | WAR File    | 72,602 |
| Videos   | UMSLabSheet_Service-1.0.1.war | 21-11-2022 06:47 PM | WAR File    | 56,980 |
| Classes  |                               |                     |             |        |
| <ul> <li>OneDrive - Agaram Technolo</li> </ul> |                               |                     |             |        |
| This PC  |                               |                     |             |        |

FIGURE: ELN-0.0.1-SNAPSHOT and LIMSLabSheet\_Service-1.0.1 Folders

4. Stop Tomcat service in services.msc.

### 3.3.1 Edit application.properties file in LIMSLabSheet\_Service-1.0.1\WEB-INF\classes Folder.

**Note:** If LIMS LabSheet\_Service is involved, then complete this flow.

- 1. Inside Tomcat webapps folder, open *LIMSLabSheet\_Service-1.0.1\WEBINF\classes* folder.
- 2. Locate *application.properties* file, right-click and then click *Edit with Notepad++* as shown in the figure:



| 📕 🛛 📜 🖛 🛛 classes  |  |                                  |                      |                               |           |       |
|--|--|----------------------------------|----------------------|-------------------------------|-----------|-------|
| File Home Share View   |  |                                  |                      |                               |           |       |
| $\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\blacksquare$ > This PC > Wind | dows (C) > Program Files > Apache Software | Foundation > Tomcat 8.0 > webapp | s > UMSLabSheet_Serv | ice-1.0.1 > WEB-INF > classes | ٽ ×       | ,P 56 |
|  | Name                                       | Date modified                    | Туре                 | Size                          |           |       |
| Quick access   | l com                                      | 04-01-2021 13:22                 | File folder          |                               |           |       |
| Desktop #  | META-INF                                   | 04-01-2021 13:22                 | File folder          |                               |           |       |
| Downloads *  | application properties                     | 07-01-2021 10:35                 | PROPERTIES File      | 1 KB                          |           |       |
| Documents 🖈  | application2.properties                    | 04-12-2020 23:24                 | PROPERTIES File      | Open with                     |           |       |
| System32 *   | columnmapping.properties                   | 04-12-2020 23:21                 | PROPERTIES File      | Share with Skype              |           |       |
| Fictures 🖈   | log4j.properties                           | 04-12-2020 23:21                 | PROPERTIES File      | Share with Skype              |           |       |
| Camtasia   | * persistence                              | 04-12-2020 23:21                 | XML Document         | Edit with Notepad++           | •         |       |
| 📜 drive  |  |                                  |                      | Scan with Microsoft Defende   | r         | -     |
| ELN7121  |  |                                  |                      | A Share                       |           |       |
| 📜 Logilab ELN Installation Guide v f   |  |                                  |                      | 😭 TortoiseSVN                 |           | >     |
| <ul> <li>OneDrive</li> </ul>   |  |                                  |                      | Add to archive                |           |       |
| Itis PC  |  |                                  |                      | Add to "application.rar"      |           |       |
| 3D Objects   |  |                                  |                      | Compress and email            |           |       |
| Desktop  |  |                                  |                      | Compress to "application.rar" | and email |       |
| Cocuments  |  |                                  |                      | Restore previous versions     |           | _     |
| Downloads  |  |                                  |                      | Send to                       |           | >     |
| J Music  |  |                                  |                      | Cut                           |           |       |
| Pictures   |  |                                  |                      | Сору                          |           |       |
| Videos   |  |                                  |                      | Create shortcut               |           |       |
| 🐛 Windows (C:)   |  |                                  |                      | 👎 Delete                      |           |       |
| - New Volume (D:)  |  |                                  |                      | 😌 Rename                      |           |       |
| 🥪 New Volume (E:)  |  |                                  |                      | Properties                    |           |       |
| - · ·  | ~  |                                  |                      |                               |           |       |

FIGURE: Opening application.properties File

3. Update the **SQL server** name, **Database** name, **username** and **password** as shown in the figure.

| 2        | Update username<br>and password for<br>SQL server   |
|----------|---|
| C:\Pr    | ogram Files/Apache Software Foundation/Tomcat 8.0/webapps/LIMSLabSheet_Service-1.0.1/WEB-INF/clar_AudioSmatth_nproperties - Notepad++ |
| File E   | dit Search View Encoding Language Settings Tools Macro Run Plugins Window ?<br>Update SQL server<br>name and LIMS                     |
| applic   | ation properties database name  |
| 1        | spring.sdms.datasourca.url =jdbc:sqlserver://AGL88\\SQLEXPRESS2017;Database=LIMSDB  |
| 2        | spring.soms.datasource.username = sa  |
| 3        | Spring. Sams. datasource password = admine123   |
| -4<br>E  | spring.sums.datasource.driver-class-name =com.microsorr.sqiserver.jubc.sqiserverbriver name and ELN                                   |
| 6        | spring all datasource und =idde:sol server: //acl.92\\Sol EXPERSS2017. Database=EINDENER  |
| 7        | eln.database = true   |
| 8        | spring-elo-dragurge username = sa   |
| 9        | spring.eln.datasource_password = admin0123  |
| 10       | spring.eln.datasource.driver-class-name =com.mion oft.sqlserver.jdbc.SQLServerDriver  |
| 11<br>12 | spring.jpa.show-sql = true<br>Update username and<br>password for SQL server  |
| 1.3      | spring. jpa.nibernate. dai-auto = valiaate  |
| 14       | spring.jpa.properties.nibernate.dialect = org.nibernate.dialect.sybserverblalect  |
| 16       | server contextPath = /IMS   |
| 17       | spring in properties, hipernate, current session context class = org.springframework.orm.hipernate5.SpringSessionContext              |
| 18       | spring.servlet.multipart.max-file-size=200MB  |
| 19       | spring.servlet.multipart.max-request-size=200MB   |
|          |   |

FIGURE: Editing Script in LIMSLabSheet\_Service-1.0.1 File



4. Save the file.

### 3.3.2 Edit application.properties file in ELN-0.0.1-SNAPSHOT\WEB-INF\classes Folder.

- 1. Inside the Tomcat *webapps* folder, open *ELN-0.0.1-SNAPSHOT\WEB-INF\classes* folder.
- 2. Locate *application.properties* file, right-click and then click *Edit with Notepad++* as shown in the figure:

| 📙   🛃 📊 🖛   classes      |   |                         |              |  |             |          |  |
|--------------------------|---|-------------------------|--------------|--|-------------|----------|--|
| File Home Share View     |   |                         |              |  |             |          |  |
| ← → ~ ↑ <mark>-</mark> > | This PC $\rightarrow$ Local Disk (C:) $\rightarrow$ Program Files $\rightarrow$ | Apache Software Foundat | on → Tomcat  | 8.0 → webapps → ELN-0.0.1-SNAPSHOT → N | NEB-INF → c | lasses ⇒ |  |
| 🔜 Desktop 🚿 ^            | Name  | Date modified           | Туре         | Size                                   |             |          |  |
| 🖊 Downloads 🖈            | com   | 9/2/2020 3:37 AM        | File folder  |  |             |          |  |
| 🗄 Documents 🖈            | images  | 9/2/2020 3:37 AM        | File folder  |  |             |          |  |
| Fictures 🖈               | META-INF  | 9/2/2020 3:37 AM        | File folder  |  |             |          |  |
| ELN installatio          | application.properties  | 8/28/2020 11:59 AM      | PROPERTIES   | Onen with                              |             |          |  |
| ELN SCRIPT               | import_auditconfig_ls   | 8/28/2020 11:59 AM      | Microsoft SC | Edit with Notenad++                    |             |          |  |
| ELN SCRIPT               | import_lsfields_ls  | 8/28/2020 11:59 AM      | Microsoft SC | Add to archive                         |             |          |  |
| SDMSLogr                 | import_patchs_ls  | 8/28/2020 11:59 AM      | Microsoft SC | Add to application rar"                |             |          |  |
| SDMSE0gs                 | import_spcreatearchive_ls   | 8/28/2020 11:59 AM      | Microsoft SC | Compress and email                     |             |          |  |
| 💻 This PC                | import_spmodule_ls  | 8/28/2020 11:59 AM      | Microsoft SC | Compress and email                     |             |          |  |
| Cesktop                  | import_symmetrickey_ls  | 8/28/2020 11:59 AM      | Microsoft SC | Postere previous versions              |             |          |  |
| Documents                | import_usergrouprights_ls   | 8/28/2020 11:59 AM      | Microsoft SC | Restore previous versions              |             |          |  |
| Downloads                | import_usergrouprightsmaster_ls   | 8/28/2020 11:59 AM      | Microsoft SC | Send to                                | >           |          |  |
| Music                    | ali import_usermaster_ls  | 8/28/2020 11:59 AM      | Microsoft SC | Cut                                    |             |          |  |
| Distance                 | log4j.properties  | 8/28/2020 11:59 AM      | PROPERTIES   | Copy                                   |             |          |  |
| Pictures                 |   |                         |              | Contrado da contrado                   |             |          |  |
| Videos                   |   |                         |              | Create shortcut                        |             |          |  |
| 🏪 Local Disk (C:)        |   |                         |              | Delete                                 |             |          |  |
| 5f9f433ac98c             |   |                         |              | Rename                                 |             |          |  |
| B DB                     |   |                         |              | Properties                             |             |          |  |
| DMS                      |   |                         |              |  |             |          |  |
| inetpub                  |   |                         |              |  |             |          |  |

FIGURE: Opening application.properties File

3. Update the **SQL server** name, **Database** name, **username** and **password**, **Archive DB** name as shown in the figure:



| applica  | tion (8).properties   |
|--|---|
| 1  | spring.servlet.multipart.enabled=true   |
| 2  | spring.servlet.multipart.max-file-size=512MB  |
| 3  | spring.servlet.multipart.max-request-size=512MB   |
| 4  |   |
| 5  | spring.http.multipart.max-file-size=512MB   |
| 6  | spring.http.multipart.max-request-size=512MB  |
| 7  |   |
| 8  | app.datasource.eln.url=jdbc:sqlserver://AGL88\\SQLEXPRESS2019;databaseName= <mark>ELN1</mark> / 1. This code is to update existing  |
| 9  | app.datasource.eln_username=sa database.  |
| 10   | app.datasource.eln.password=admin@123 2. To create new database, set  |
| 11   | app.datasource.eln.driverClassName=com.microsoft.sqlserver.jdbc.SQLServerDriver "app.datasource.eln.initialize=true"  |
| 12   | app.datasource.eln.initialize=false   |
| 13   | #spring.jpa.hibernate.ddl-auto=create "spring.jpa.hibernate.ddl-auto=create"  |
| 14   |   |
| 15   | app.datasource.archive.url= <mark>j</mark> dbc:sqlserver://AGL88\\SQLEXPRESS2019;databaseName= <mark>ArchiveDB</mark>   |
| 16   | app.datasource.archive_username=sa  |
| 17   | app.datasource.archive_password=admin@123   |
| 18   | app.datasource.archive.driverClassName=com.microsoft.sqlserver.jdbc.SQLServerDriver   |
| 19   |   |
| 20   | spring.jpa.show-sql=true  |
| 21   | spring.jpa.hibernate.dialect=org.hibernate.dialect.SQLServer2012Dialect   |
| 22   | spring.jpa.database-platform=org.hibernate.dialect.SQLServer2008Dialect   |
| 23   | spring.jpa.generate-ddl=true  |
| 24   | spring.data.mongodb.uriemongodb://localhost:27017/ELNMongo  |
| 25   |   |
| 26   | spring.jpa.nibernate.naming.physicai-strategy=org.nibernate.boot.model.naming.PhysicaiNamingStrategyStandardimpi  |
|  |   |
| 27   | Update the LIMS build   |
| 27<br>28   | limsbaseservice.url=http://AGL88:8085/QualIS/   |
| 27<br>28<br>29   | limsbaseservice.url=http://AGL88:8085/QualIS/<br>Webparserservice.url=http://AGD59:8090/methodSetup/<br>folder name here  |
| 27<br>28<br>29<br>30   | limsbaseservice.url=http://AGL88:8085/QuaLIS/<br>webparserservice.url=http://AGL88:8085/QuaLIS/<br>sdms.template.service.url=http://AGL88:8085/SDMS<br>webservice/<br>t true direct coll on lims convice folce coll from lims ab botton<br>t true direct coll on lims convice folce coll from lims ab botton<br>Update the Host name and  |
| 27<br>28<br>29<br>30<br>31   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>webparserservice.url=http://AGD59:8090/methodSetup/<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/ Update the Host name and<br/># true = direct call on lims service, false = call from limslabsheetserver Update the Host name and<br/>Tomcat Port no for SDMS that</pre>   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/<br/>webparserservice.url=http://AGD59:8090/methodSetup/<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/<br/># true = direct call on lims service, false = call from limslabsheetserv<br/>limsbaseservice.serviceapi=true</pre> Update the LIMS build<br>folder name here<br>Update the Host name and<br>Tomcat Port no for SDMS that<br>are used for templates and tags   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>webparserservice.url=http://AGD59:8090/methodSetup/<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/<br/># true = direct call on lims service, false = call from limslabsheetserv Update the Host name and<br/>Tomcat Port no for SDMS that<br/>are used for templates and tags</pre>  |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>webparserservice.url=http://AGD59:8090/methodSetup/<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/ Update the Host name and<br/># true = direct call on lims service, false = call from limslabsheetservice.serviceapi=true<br/>DocxApi=http://AGL88/web-apps Set Limsbaseservice.serviceapi=true<br/>DocxUrl=http://AGL88:8090/ELNdocuments</pre>   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36   | limsbaseservice.url=http://AGL88:8005/QualIS/<br>webparserservice.url=http://AGL88:8005/QualIS/<br>sdms.template.service.url=http://AGL88:8005/SDMS_WebService/<br># true = direct call on lims service, false = call from limslabsheetser<br>limsbaseservice.serviceapi=true<br>DocxApi=http://AGL88:8009/ELNdocuments<br>#comment next line in case of deployment   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>folder name here<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/ Update the Host name and<br/># true = direct call on lims service, false = call from limslabsheetSer Tomcat Port no for SDMS that<br/>limsbaseservice.serviceapi=true Set Limsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88/web-apps Set Limsbaseservice.serviceapi=true<br/>DocxUrl=http://AGL88/web-apps Set Limsbaseservice.serviceapi=true<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/</pre>   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>folder name here<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/ Update the Host name and<br/># true = direct call on lims service, false = call from limslabsheetser Update the Host name and<br/>Tomcat Port no for SDMS that<br/>are used for templates and tags<br/>DocxApi=http://AGL88:8090/ELNdocuments<br/>#Comment next line in case of deployment<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/<br/>#fileReceiver = http://llelnonlyofficedev.centralus.cloudapp.azure.com;9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/</pre>   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>webparserservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>folder name here<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/ Update the Host name and<br/># true = direct call on lims service, false = call from limslabsheetser Update the Host name and<br/>Tomcat Port no for SDMS that<br/>are used for templates and tags<br/>DocxApi=http://AGL88:8090/ELNdocuments<br/>#Comment next line in case of deployment<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/<br/>#fileReceiver = http://lelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/</pre>   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>folder name here<br/>sdms.template.service.url[http://AGL88:8085/SDMS WebService/ Update the Host name and<br/>true = direct call on lims service, false = call from limslabsheetser Update the Host name and<br/>limsbaseservice.serviceapi=true Exervice.serviceapi=true<br/>DocxApi=http://AGL88:8090/ELNdocuments<br/>#Comment next line in case of deployment<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/<br/>#fileReceiver = http://llelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/<br/>server.port = 8095</pre>  |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>folder name here<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/<br/># true = direct call on lims service, false = call from limslabsheetser<br/>limsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88:8090/ELNdocuments<br/>#Comment next line in case of deployment<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/<br/>#fileReceiver = http://lelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/<br/>server.port = 8095</pre>  |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42   | <pre>limsbaseservice.url=http://AGL88:8005/QualIS/ Update the LIMS build<br/>folder name here<br/>sdms.template.service.url=http://AGL88:8005/SDMS WebService/ Update the Host name and<br/># true = direct call on lims service, false = call from limslabsheetser Update the Host name and<br/>Tomcat Port no for SDMS that<br/>are used for templates and tags<br/>DocxApi=http://AGL88/web-apps/ Set Limsbaseservice.serviceapi=true<br/>DocxUrl=http://AGL88:8090/ELNdocuments<br/>#Comment next line in case of deployment<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/<br/>#fileReceiver = http://llelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/<br/>server.port = 8095<br/>jwt.secret=agaram</pre>   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43   | <pre>limsbaseservice.url=http://AGL88:8005/QualIS/ Update the LIMS build<br/>folder name here<br/>sdms.template.service.url=http://AGL88:8005/SDMS WebService/ Update the Host name and<br/># true = direct call on lims service, false = call from limslabsheetSer Update the Host name and<br/>Tomcat Port no for SDMS that<br/>are used for templates and tags<br/>DocxApi=http://AGL88:8009/ELNdocuments<br/>#Comment next line in case of deployment<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/<br/>#fileReceiver = http://llelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/<br/>server.port = 8095<br/>jwt.secret=agaram</pre>  |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>folder name here<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/ Update the Host name and<br/>thtp://AGL88:website.service.govice.service.se</pre>  |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>folder name here<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/ Update the Host name and<br/>true = direct call on lims service, false = call from limslabsheetser Update the Host name and<br/>limsbaseservice.serviceapi=true SetLimsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88/web-apps SetLimsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88/web-apps SetLimsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88/web-apps SetLimsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88/web-apps SetLimsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88/web-apps SetLimsbaseservice.serviceapi=true<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/<br/>#fileReceiver = http://llelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/<br/>server.port = 8095<br/>jwt.secret=agaram<br/>## File Storage Properties<br/>file.upload-dir=./uploads</pre>  |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46   | <pre>limsbaseservice.url=http://AGL88:8085/QualIS/ Update the LIMS build<br/>folder name here<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/ Update the Host name and<br/># true = direct call on lims service, false = call from limslabsheetser Update the Host name and<br/>limsbaseservice.serviceapi=true Exerviceapi=true<br/>DocxApi=http://AGL88:8090/ELNdocuments<br/>#Comment next line in case of deployment<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/<br/>#fileReceiver = http://lelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/<br/>server.port = 8095<br/>jwt.secret=agaram<br/>## file Storage Properties<br/>file.upload-dir=./uploads</pre>  |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47                                     | <pre>limsbaseservice.url=http://AGL88:8085/QualIfy Update the LIMS build<br/>folder name here<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/<br/># true = direct call on lims service, false = call from limslabsheetserv Update the Host name and<br/>Tomcat Port no for SDMS that<br/>are used for templates and tags<br/>DocxApi=http://AGL88/web-apps SetLimsbaseservice.serviceapi=true<br/>DocxUrl=http://AGL88:8090/ELNdocuments<br/>#Comment next line in case of deployment<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/R00T/ELNdocuments/<br/>#fileReceiver = http://lelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/<br/>server.port = 8095<br/>jwt.secret=agaram<br/>## File Storage Properties<br/>file.upload-dir=./uploads<br/>spring.mail.host=smtp.gmail.com</pre>   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48                               | <pre>limsbaseservice.url=http://AGL88:8085_QualI3Update the LIMS build<br/>webparserservice.url=http://AGL88:8085_QUALI3Update the LIMS build<br/>sdms.template.service.url=http://AGL88:8085/SDMS_Webservice/Update the Host name and<br/>Tamcat Port no for SDMS that<br/>are used for templates and tags</pre>   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>9                          | <pre>limsbaseservice.url=http://AGL88:8085/QualT3/ Update the LIMS build<br/>folder name here<br/>webparserservice.url=http://AGL88:8005/SDMS WebService/<br/># true = direct call on lims service, false = call from limslabsheetser.<br/>limsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88/web-apps/ Set Limsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88:8009/ELNdocuments<br/>#Comment next line in case of deployment<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/<br/>#fileReceiver = http://llelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/<br/>server.port = 8095<br/>jwt.secret=agaram<br/>## File Storage Properties<br/>file.upload-dir=./uploads<br/>spring.mail.host=smtp.gmail.com<br/>spring.mail.username=saas@agaramtech.com Script for mail<br/>configuration</pre>  |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50                   | <pre>limsbaseservice.url=http://AGL88:8085/Qualify Update the LIMS build<br/>webparserservice.url=http://AGL88:8085/SDMS_WebService Update the Host name and<br/>format for a special of the service of the servi</pre>  |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50                   | <pre>limsbaseservice.url=http://AGL88:8085_Qually Update the LLMS build<br/>noder name here<br/>webparserservice.url=http://AGD59:8090/methodSetup/<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/<br/># true = direct call on lims service, false = call from limslabsheetser<br/>limsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88/web-apps/<br/>Set Limsbaseservice.serviceapi=true<br/>DocxUrl=http://AGL88:8090/ELNdocuments<br/>#Comment next line in case of deployment<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/<br/>#fileReceiver = http://llelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/<br/>server.port = 8095<br/>jwt.secret=agaram<br/>## file Storage Properties<br/>file.upload-dir=./uploads<br/>spring.mail.nost=smtp.gmail.com<br/>spring.mail.nort=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>spring.mail.port=S87<br/>s</pre> |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>52       | <pre>limsbaseservice.url=http://AGL88:8085_Qual13</pre>   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>950<br>51<br>52<br>53      | <pre>limsbaseservice.url=http://AGL88:8085.QualTy Update the LIMS build<br/>webparserservice.url=http://AGD59:8090/methodSetup/<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/<br/># true = direct call on lims service, false = call from limslabsheetser<br/>limsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88:8090/ELNdoCuments<br/># Comment next line in case of deployment<br/>DocsPath=C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/RODT/ELNdocuments/<br/># fileReceiver = http://llelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/<br/>server.port = 8095<br/>jwt.secret=agaram<br/>## File Storage Properties<br/>file.upload-dir=./uploads<br/>pring.mail.nost=smtp.gmail.com<br/>spring.mail.opert=837<br/>spring.mail.username=saas@agaramtech.com<br/>pring.mail.username=saas@agaramtech.com<br/>spring.mail.porperties.mail.smtp.starttls.enable=true<br/>t Enable execute executed executed accument of the start lise for the start lise for</pre>   |
| 27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>90<br>51<br>52<br>53<br>54 | <pre>limsbaseservice.url=http://AGL88:8085/Qualls Update the LIMS build<br/>webparserservice.url=http://AGL88:8085/SDMS WebService/<br/>sdms.template.service.url=http://AGL88:8085/SDMS WebService/<br/>true = direct call on lims service, false = call from limslabsheetser<br/>limsbaseservice.serviceapi=true<br/>DocxApi=http://AGL88:8090/ELNdocuments<br/>Comment next line in case of deployment<br/>DocsPath-C:/Program Files/Apache Software Foundation/Tomcat 9.0/webapps/ROOT/ELNdocuments/<br/>#fileReceiver = http://lelnonlyofficedev.centralus.cloudapp.azure.com:9080/ELNFileReceiver-0.0.1-SNAPSHOT/fileserver/<br/>server.port = 8095<br/>jut.secret=agaram<br/>## File Storage Properties<br/>file.upload-dir=./uploads<br/>pring.mail.uport=s87<br/>spring.mail.usersmer=saas@agaramtech.com<br/>spring.mail.usersmer=saas@agaramtech.com<br/>spring.mail.usersmer=saas@agaramtech.com<br/>spring.mail.port=s87<br/>spring.mail.properties.mail.smtp.starttls.enable=true<br/># Enable response compression</pre>   |

FIGURE: Editing Script in application.properties file

Edit the script as mentioned below for color boxes.

| Update SQL server name or IP Address and port number of SQL Server |  |
|--|--|
| Update Database name used for ELN.                                 |  |
|  |  |

Updating Existing Database:



Set app.datasource.eln.initialize=false and comment spring.jpa.hibernate.ddl-auto=create to update existing database.

#### Creating New Database:

Set app.datasource.eln.initialize=true and ensure that the spring.jpa.hibernate.ddl-auto=create is not commented if you want to create a new database.

Warning: If you use this code when you update an existing database, the database is flushed, hence you will experince data loss.

After creating a new database, you must change app.datasource.eln.initialize=false, and comment the spring.jpa.hibernate.ddl-auto=create line and then restart Tomcat service to run the application service.

|               | Update ELN archive Database name  |
|---------------|---|
|               | Update username and password you use to connect SQL server.               |
| above figure. | Mongo database is created and the same is updated line as shown in the    |
| tags.         | Update Hostname and Tomcat Port no of SDMS that are used for template and |
|               | Script for mail configuration   |

### 3.3.3 Connecting LIMS

#### 3.3.3.1 Method 1: Connect using LIMS lab sheet service.

To connect using LIMS lab sheet service, follow these steps:

- a. Set limsbaseservice.serviceapi=false.
- b. And then, update the LIMS lab sheet service folder name (*LIMSLabSheet\_Service-1.0.1*) as shown in the figure:

| 29 | limsbaseservice.url=http://AGL88:8085/LIMSLabSheet_Service-1.0.1/                      |
|----|--|
| 30 | webparserservice.url=http://AGL88:8090/methodSetup/                                    |
| 31 | sdms.template.service.url=http://AGL88:8085/SDMS_WebService/                           |
| 32 | <pre># true = direct call on lims service, false = call from limslabsheetservice</pre> |
| 33 | limsbaseservice.serviceapi=false   |
| 34 |  |

#### FIGURE: Connect LIMS Using LIMSLabSheetService



#### 3.3.3.2 Method 2: Connect Directly

To connect LIMS directly, follow these steps:

- a. Set limsbaseservice.serviceapi=true.
- b. And then, update the LIMS build folder name (**QuaLIS**) as shown in the figure.

```
28 limsbaseservice.url=http://AGL88:8085/QuaLIS/
29 webparserservice.url=http://AGD59:8090/methodSetup/
30 sdms.template.service.url=http://AGL88:8085/SDMS_WebService/
31 # true = direct call on lims service, false = call from limslabsheetservice
32 limsbaseservice.serviceapi=true
```

FIGURE: Connect LIMS Directly

#### 3.3.3.3 Connecting SDMS

If the database for SDMS is maintained separately, then configure SDMS DB details in the index.html file.

To do so, follow these steps:

4. Inside the Tomcat *webapps* folder, open *ELN* folder. The screen appears as shown in the figure:

| $\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ 🔛 $\rightarrow$ This PC | ← → ✓ ↑ 🎦 > This PC > Windows (C:) > Program Files > Apache Software Foundation > Tomcat 8.0 > webapps > ELN |                                   |                 |       |  |  |  |  |
|--|--|-----------------------------------|-----------------|-------|--|--|--|--|
| A Home   | Name   | <ul> <li>Date modified</li> </ul> | Туре            | Size  |  |  |  |  |
| <ul> <li>OneDrive - Personal</li> </ul>                                    | C35  | 15-12-2022 10:31 AM               | File folder     |       |  |  |  |  |
| > 🔚 Desktop  | fonts  | 15-12-2022 10:31 AM               | File folder     |       |  |  |  |  |
| > 🧾 Documents  | 🚞 images   | 15-12-2022 10:31 AM               | File folder     |       |  |  |  |  |
| > 🔀 Pictures   | META-INF   | 15-12-2022 10:31 AM               | File folder     |       |  |  |  |  |
|  | 🚬 static   | 15-12-2022 10:31 AM               | File folder     |       |  |  |  |  |
| 🛓 Downloads 🛛 🖈  | WEB-INF  | 15-12-2022 10:31 AM               | File folder     |       |  |  |  |  |
| 🚱 Music 🔹 🖈  | 📔 asset-manifest.json  | 14-12-2022 08:15 PM               | JSON File       | 94 KB |  |  |  |  |
| 🛂 Videos 🛛 🖈   | 🎆 favicon.ico  | 18-08-2022 11:28 AM               | ICO File        | 4 KB  |  |  |  |  |
| 📜 classes  | 📓 index.html   | 14-12-2022 08:19 PM               | HTML File       | 20 KB |  |  |  |  |
|  | logo192.png  | 18-08-2022 11:28 AM               | PNG File        | 6 KB  |  |  |  |  |
| > 🌰 OneDrive - Agaram Technolog  | Iogo512.png  | 18-08-2022 11:28 AM               | PNG File        | 10 KB |  |  |  |  |
| 🗸 📮 This PC  | 📓 manifest.json  | 18-08-2022 11:28 AM               | JSON File       | 1 KB  |  |  |  |  |
| > 💾 Windows (C:)   | precache-manifest.7d9c3a29ee008ba7f2852a2  | 14-12-2022 08:15 PM               | JavaScript File | 70 KB |  |  |  |  |
| > - Official Space (D:)  | 📔 robots.txt   | 18-08-2022 11:28 AM               | TXT File        | 1 KB  |  |  |  |  |
| > Backup Space (E:)  | 🕱 service-worker.js  | 14-12-2022 08:15 PM               | JavaScript File | 2 KB  |  |  |  |  |

FIGURE: Editing index.html File

- 5. Locate *index.html* file, right-click and then click *Edit with Notepad++*.
- 6. Update the server's name and Tomcat Port number of SDMS DB as shown in the figure:





FIGURE: Updating Server name and Port No of SDMS DB

7. Restart Tomcat server.

Logilab

8. In the Tomcat Application status screen, you can check the status as running for the *ELN*, */ELN-0.0.1-SNAPSHOT* and */LIMSLabSheet\_Service-1.0.1* as shown in the figure:

| Software For                 | pache<br>Indation |                   |              |          |   |
|------------------------------|-------------------|-------------------|--------------|----------|---|
|                              |                   | Tomcat Web App    | olication Ma | nager    |   |
| Message: OK                  |                   |                   |              |          |   |
| Manager<br>List Applications |                   | HTML Manager Help |              | М        | anager Help Server Status   |
| Applications<br>Path         | Version           | Display Name      | Running      | Sessions | Commands  |
| L                            | None specified    | Welcome to Tomcat | true         | Q        | Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes                           |
| /ELN                         | None specified    |                   | true         | ٩        | Start     Stop     Reload     Undeploy       Expire sessions     with idle × 30     minutes |
| /ELN-0.0.1-SNAPSHOT          | None specified    |                   | true         | Q        | Start Stop Reload Undeploy Expire sessions with ide = 30 minutes                            |
| WovervLima                   | None specified    |                   | true         | Q        | Start Stop Reload Undeploy Expire sessions with ide ≥ 30 minutes                            |
| /LIMSLabSheet_Service-1.0.1  | None specified    |                   | true         | Q        | Start Stop Reload Undeploy Expire sessions with ide ≥ 30 minutes                            |
|                              |                   |                   |              |          | Start Stop Reload Undeploy  |

FIGURE: Checking Service Status

9. In the Tomcat *Applications* status screen click *ELN* application to start Logilab ELN application in a browser. Alternatively, you can use the link that you received from your administrator to open Logilab ELN in a browser. The Logilab ELN login screen appears as shown in the figure:



| Logilab   |   | Logi | ilab ELN for Paperless Labs   |
|---|---|------|---|
| Welcome to Logilab ELN                              |   | B    | Sheet Templates<br>Use Spreadsheet or Protocol templates for data capture for activities such as<br>tests, experiments & projects |
| We make it easier for labs to record data paperless |   |      | Collaborate<br>Share your experiments with your project team & work collaboratively   |
| Username  |   | :075 | Electronic Method Execution   |
| Password  |   | 12   | Electronically execute your GxP & non-GxP methods flawlessly & contemporaneously with 21 CFR Part 11 compliance                   |
| User Role   | ~ |      | Protocol Notebooks  |
| Site  |   |      | inventory & other tools for your experiments  |
|   | ~ | (Eh  | Professional Reports  |
| Domain  | ~ | 1    | Use an advanced document editor for designing custom reports  |
| Language  | ÷ | R    | Workflows   |
| Login Back  |   | 000  | Configure workflows for Review & Approval   |

FIGURE: Logilab ELN Login Screen



# 4 Annexure

## 4.1 Tomcat Maximum Memory Setting

1. Open the **bin** folder inside Tomcat server as shown in the figure:

| III III III III IIII IIII IIII IIIIIIII   | Manage bin<br>View Application Tools   |                     |   |                                      |  |  |
|---|--|---------------------|---|--------------------------------------|--|--|
| Pin to Quick Copy Paste P   | tut<br>topy path<br>aste shortcut<br>U<br>U<br>U<br>U<br>U<br>U<br>U<br>U<br>U | New item •          | Properties<br>Open •<br>Edit<br>History | Select all                           |  |  |
| A hard a Third C hard Dirk (C) hard Dirk (C) hard Dirk (C) hard a start for the Sefference Foundation in Toront 0.0 h his |  |                     |   | Jun                                  |  |  |
| C > * T > Inis PC > Local Disk (L:) > Program Files > Apache Software Foundation > Iomcat a.U > bin Open                  |  |                     |   |                                      |  |  |
| Program Files   | Name   | Date modified       | Туре                                    | Run as administrator                 |  |  |
| 📙 Apache Software F   | 🕌 bootstrap  | 3/19/2016 2:02 AM   | Executable Jar File                     | S Share with Skype                   |  |  |
| Common Files  | 💿 catalina   | 3/19/2016 2:02 AM   | Windows Batch File                      | Import to Grammarly                  |  |  |
| CONEXANT  | configtest   | 3/19/2016 2:02 AM   | Windows Batch File                      | Share with Skype                     |  |  |
| Dolby   | igest  | 3/19/2016 2:02 AM   | Windows Batch File                      | Troubleshoot compatibility           |  |  |
| Elastic   | service  | 3/19/2016 2:02 AM   | Windows Batch File                      | Pin to Start                         |  |  |
| er19.3  | setclasspath   | 3/19/2016 2:02 AM   | Windows Batch File                      | Edit with Notepad++                  |  |  |
| Fortinet  | ishutdown  | 3/19/2016 2:02 AM   | Windows Batch File                      | Scan with Windows Defender           |  |  |
| HD  | istartup   | 3/19/2016 2:02 AM   | Windows Batch File                      | I Share                              |  |  |
|   | Tomcat8  | 3/19/2016 2:02 AM   | Application                             | 🐔 TortoiseSVN >                      |  |  |
|   | Tomcat8w   | 3/19/2016 2:02 AM   | Application                             | Add to archive                       |  |  |
| Internet Explorer   | i tomcat-juli  | 3/19/2016 2:02 AM   | Executable Jar File                     | Add to "Tomcat8w.rar"                |  |  |
| Java  | iso tool-wrapper   | 3/19/2010 2:02 AM   | Windows Batch File                      | Compress and email                   |  |  |
| Microsoft Analysis  | tersion  | 5/ 19/ 2010 2:02 AM | windows batch File                      | Compress to "Tomcat8w.rar" and email |  |  |
| Microsoft Help Vie  |  |                     |   | Pin to taskbar                       |  |  |
| Microsoft Office  |  |                     |   | Restore previous versions            |  |  |
| Microsoft SQL Serv  |  |                     |   |                                      |  |  |
| Microsoft Visual St   |  |                     |   | Send to >                            |  |  |
| Microsoft.NET   |  |                     |   | Cut                                  |  |  |
| ModifiableWindow  |  |                     |   | Сору                                 |  |  |
| MSBuild   |  |                     |   | Create shortcut                      |  |  |
| M-SOI   |  |                     |   | Delete                               |  |  |
| wysQL   |  |                     |   | Rename                               |  |  |
| nodejs  |  |                     |   |                                      |  |  |

- 2. Right-click *Tomcat8w* application file and then click *Run as administrator*. The *Apache Tomcat Properties* dialog appears.
- 3. Go to the *Java* tab. In the *Initial Memory Pool* and in the *Maximum Memory Pool* fields type *4000* as shown in the figure:



| ⓑ Apache Tomcat 8.0 Tomcat8 Properties ×   |   |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|
| General Log On Logging Java Startup Shutdown   |   |  |  |  |  |  |  |  |
| Use default  |   |  |  |  |  |  |  |  |
| Java Virtual Machine:  |   |  |  |  |  |  |  |  |
| C: \Program Files \Java \jre1.8.0_144\pin \server \jvm.dll   |   |  |  |  |  |  |  |  |
| Java Classpath:  |   |  |  |  |  |  |  |  |
| C:\Program Files\Apache Software Foundation\Tomcat 8.0\bin\bootstrap   |   |  |  |  |  |  |  |  |
| Java Options:  |   |  |  |  |  |  |  |  |
| -Dcatalina.home=C:\Program Files\Apache Software Foundation\Tom<br>-Dcatalina.base=C:\Program Files\Apache Software Foundation\Tom<br>-Djava.endorsed.dirs=C:\Program Files\Apache Software Foundation<br>-Djava.io.tmpdir=C:\Program Files\Apache Software Foundation\Tom |   |  |  |  |  |  |  |  |
| Initial memory pool: 4000 MB   |   |  |  |  |  |  |  |  |
| Maximum memory pool: 4000 MB   |   |  |  |  |  |  |  |  |
| Thread stack size: KB  |   |  |  |  |  |  |  |  |
| OK Cancel Apply  | l |  |  |  |  |  |  |  |

FIGURE: Apache Tomcat Properties - Java Tab

- 4. Click Apply.
- 5. Click **Ok**.
- 6. Restart Tomcat server.

### 4.2 Ensure Client Protocols are Enabled.

- 1. Open SQL Server Configuration Manager.
- 2. Ensure that the *Shared Memory*, *TCP/IP*, and *Named Pipes* protocols are enabled as shown in the figure:



| 🚟 Sql Server Configuration Manager  |                                 |                 |                               |  |  |  |  |
|---|---------------------------------|-----------------|-------------------------------|--|--|--|--|
| File Action View Help   |                                 |                 |                               |  |  |  |  |
|   |                                 |                 |                               |  |  |  |  |
| SQL Server Configuration Manager (Local)  | Name<br>Shared Memory<br>TCP/IP | Order<br>1<br>2 | Enabled<br>Enabled<br>Enabled |  |  |  |  |
| SQL Server Network Configuration (32bit<br>SQL Native Client 11.0 Configuration (32bit)   |                                 |                 |                               |  |  |  |  |
| <ul> <li>Client Protocols</li> <li>Aliases</li> <li>SQL Server Network Configuration</li> <li>SQL Native Client 11.0 Configuration</li> </ul> | 3 Named Pipes                   | 3               | Enabled                       |  |  |  |  |
|   |                                 |                 |                               |  |  |  |  |

FIGURE: SQL Server Configuration Manager - Client Protocols

3. After enabling all, restart SQL Server.