CIQ-Dashboard

Installation Document Guide

About this Installation Guide

The Cognizant® Integrated Quality Dashboard (~~CiqDashboard~~CIQDashboard) Installation Guide, provides help to install ~~CiqDashboard~~CIQDashboard Server in your system. It guides you through the steps to install and uninstall the CiqDashbaord software and provides instructions for completing the minimal configuration required to start creating dashboards. In addition, it provides troubleshooting information during or post-installation of the software.

The installation guide consists of the following chapters:

Chapter Name	Description
About Cognizant® Integrated Quality Dashboard	Provides information about ~~CiqDashboard~~CIQDashboard
Hardware Requirements	Provides an overview about required hardware configuration ~~configuration~~
Software Requirements	Provides an overview about prerequisites for installing ~~CiqDashboard~~CIQDashboard
Binaries/Setup Files	Provides information on the required binaries/setup files

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Table of Contents

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1. About Cognizant® Integrated Quality Dashboard

~~This chapter consists of:~~

- ~~Product Overview~~

Cognizant Integrated Quality Dashboard (CIQ~~iq~~Dashboard) is a data visualization solution, designed to transform data reporting into interactive business intelligence dashboards.

2. Hardware Requirements

The following table lists the hardware requirements for ~~CiqDashboard~~CIQDashboard:

Type	Description
Operating System	Windows XP and above
Processor	64-bit multi-core
RAM	Minimum: 8 GB; Recommended: 16 GB
HDD	100 GB of available space (can increase based on volume of data gathered from the client)
Monitor	Resolution of 1024x768 or greater

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3. Software Requirements

The following table lists the software prerequisites for CIQ~~ig~~Dashboard and in a Windows Operating System:

Software	Download Link
NGINX	http://nginx.org/en/download.html (Stable) Required version: 1.18 or above  nginx-1.18.0.zip
Java	Download Java version: 11.0.0 -11.0.17(only) please use below URL URL :https://www.oracle.com/in/java/technologies/javase/jdk11-archive-downloads.html
Mongo DB	To Download MongoDB version: 5 or above please use below URL URL : https://www.mongodb.com/try/download/community
Studio 3T/ Robo 3T	To Download Studio 3T please use below URL Studio 3T URL : https://studio3t.com/download/ Robo 3T URL : https://github.com/Studio3T/robomongo

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4. Mongo DB configuration and Setup

4.1 Mongo DB Configuration

This section describes the steps to install Mongo DB and set up the server.

4.1.1 Installing Mongo DB

Please download the mongo DB ~~Installer Version~~Installer -Version 5.0 for downloading Mongo DB.

Please click on the below link

Mongo DB link : https://www.mongodb.com/try/download/community

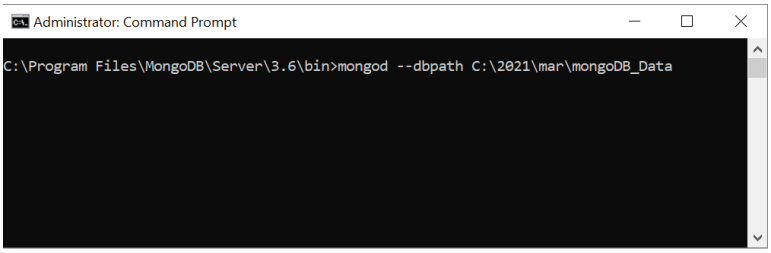
- In Windows Explorer, locate the downloaded **MongoDB .msi** file.
- Double-click the **.msi** file. A set of screens guide you through the installation process

4.1.2 Authenticating Mongo DB

Follow the steps below to authenticate Mongo DB server.

4.1.2.1 Start Mongo Server in Normal Mode:

- Create a folder with name: **mongoDB_Data**** in **C:\'**.
- Open the command prompt (run as administrator), type **C:\Program Files\MongoDB\Server\4.0\bin** and press **Enter**. The folder path opens in the Command Prompt windows.
- In the command prompt, type **mongod --dbpath c:\mongoDB_Data** and press **Enter**.



- The Mongo server starts in normal mode.

Figure 1: Administrator Command Prompt

4.1.2.2 Open Mongo Shell:

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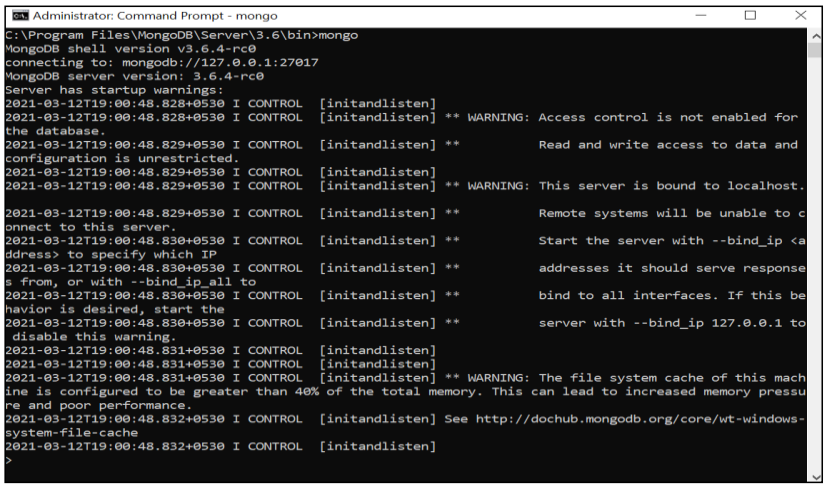
In the Command Prompt, navigate to the **bin** folder of the Mongo installation, type **mongo** and press **Enter**. The Mongo shell opens in the same command prompt.



~~**Enter**. The Mongo shell opens in the same command prompt.~~

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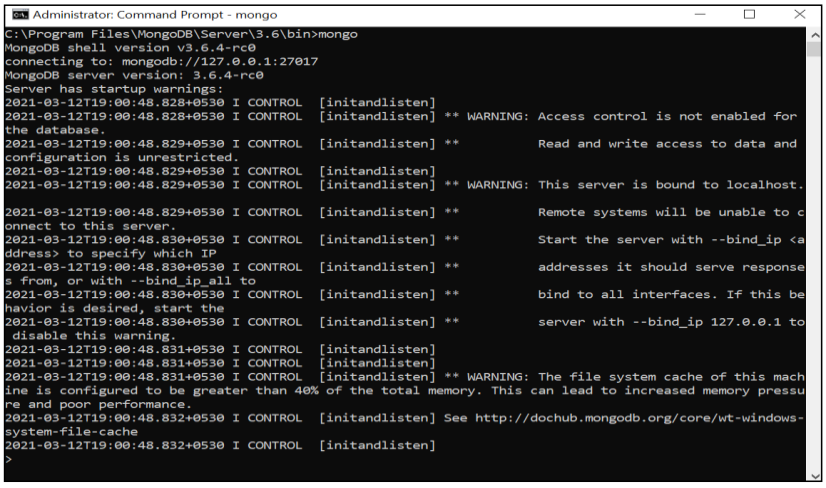

Figure 2: Mongo

4.1.3 Validating DB in Robo Mongo

The authenticated admin DB can be validated using **RoboMongo** tool, which is Mongo shell UI. To validate:

- Open **Robo 3T – 1.4**. Click **File -> Manage Connections**. The **MongoDB Connections** pane appears

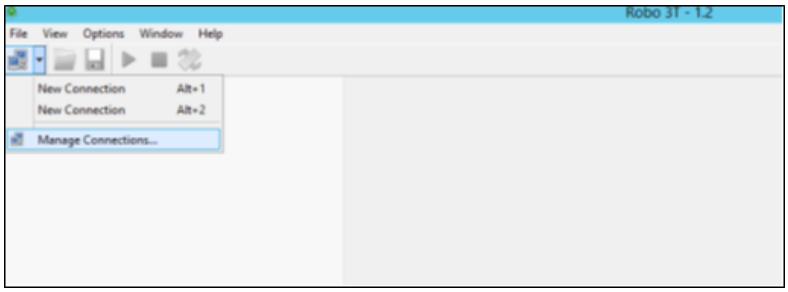

Figure 3: Robo 3T

- In **MongoDB Connections** pane, click **Create**. The **Connection Settings** pane appears.

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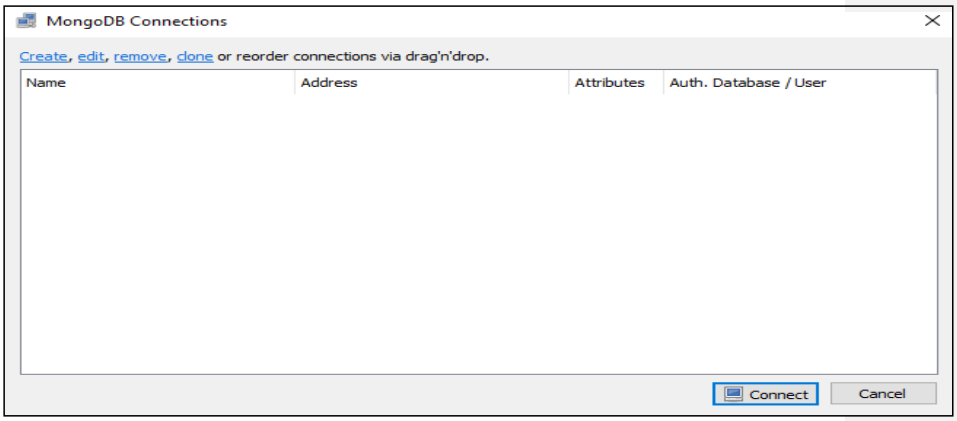

Figure 4: Create

- In the **Connection Settings** pane, click **Connection** tab.
- In **Name**, type a name for the connection you are creating.
- In **Address**, type the host address and the port.
- Create a database name as ciqdashboard_qa_2023

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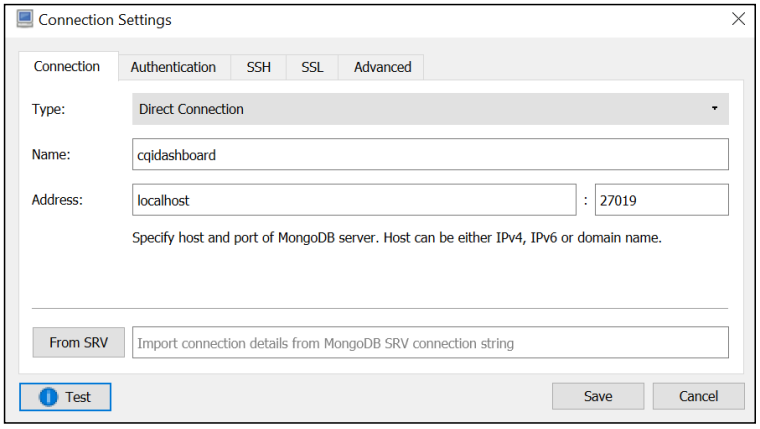
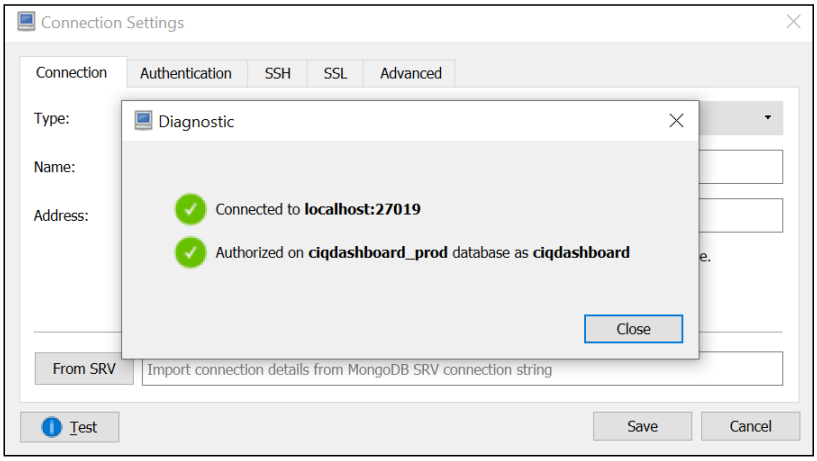


Figure 5: Connection



~~*Figure 6: Diagnostic*~~

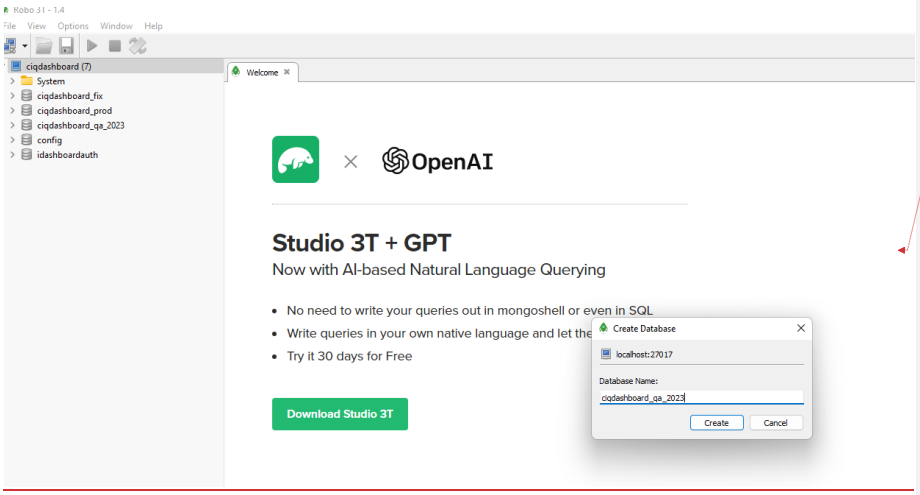


Figure 6: Database creation~~Diagnostic~~

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4.1.4 Adding Collection in Studio 3T

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- To add collection Use Studio 3T
- Right Click on the DB and click import collection

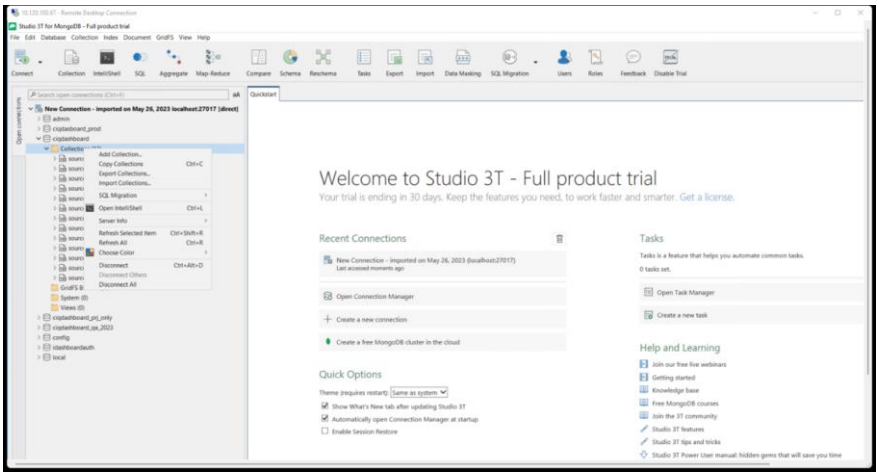

Figure 7: Studio 3T

- Select the Json and click on configure

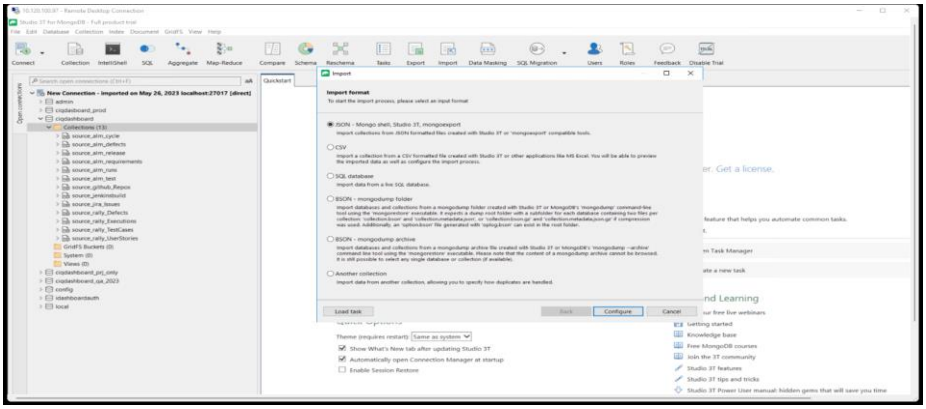

Figure 8: Import collection

- Click on Add source to add collection

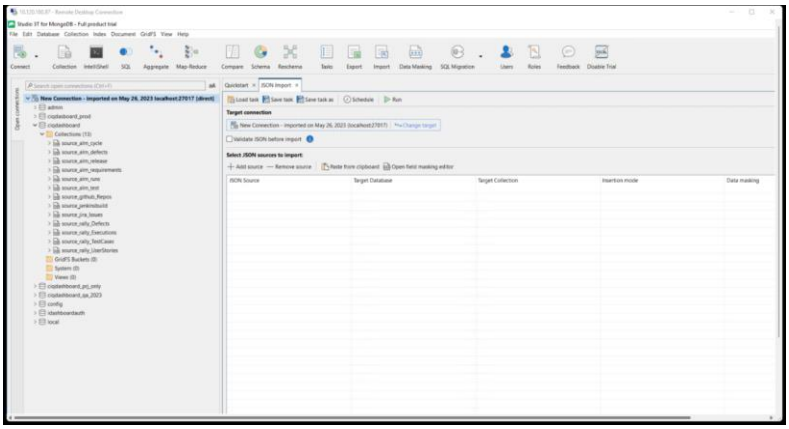

Figure 9: Import Tab

- Select the collection files to import

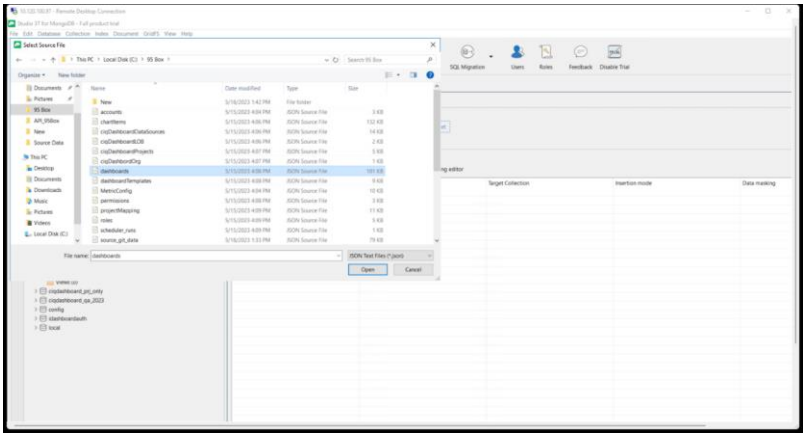

Figure 10: Select Collection

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- Once the collection is selected click on run button

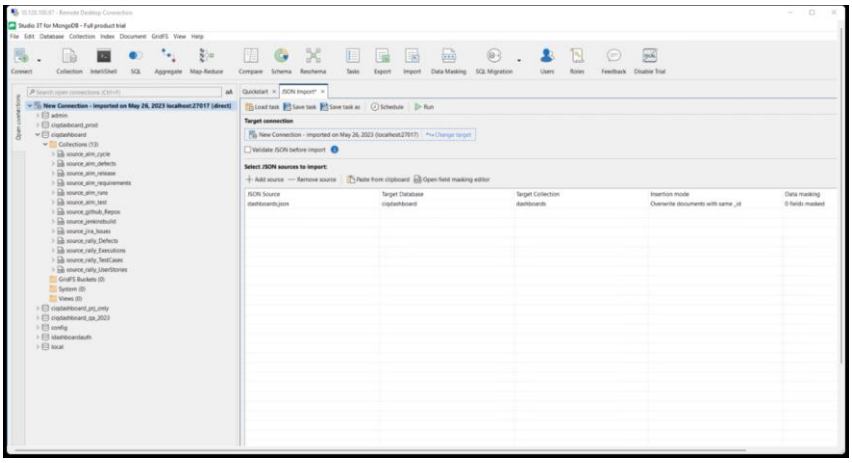

Figure 11: import Tab

4.1.5 Import collection though CMD administrator

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Download the MongoDB – "**MongoDB Command Line Database Tools Download**"

- To download please use the Link – URL : https://www.mongodb.com/try/download/database-tools
- To download the Mongo Collection Dump please use this URL : https://codehub.jfrog.io/artifactory/CIQD-npm/ciqdashboard-collections-2.1.zip
- Run command prompt as administrator.
- Copy the path of collector "cd – C:\Program Files\MongoDB\Tools\100\bin"

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- Type mongoimport command
- "mongoimport --host localhost --port 27017 --db <DataBase> --collection <collection name> --type json --file <CollectionFilepath>"
- Example (mongoimport --host localhost --port 27017 --db ciqdashboard_qa_2023 --collection MetricConfig --type json --file C:\Users\SBRMNMUTFST\Downloads\DB\MetricConfig.json)

DB_Import.txt

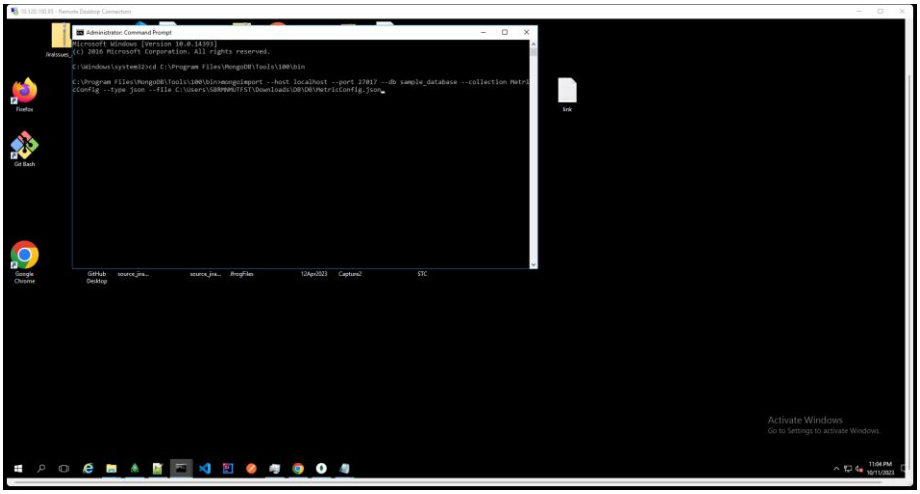

Figure 12: Administrator Command Prompt

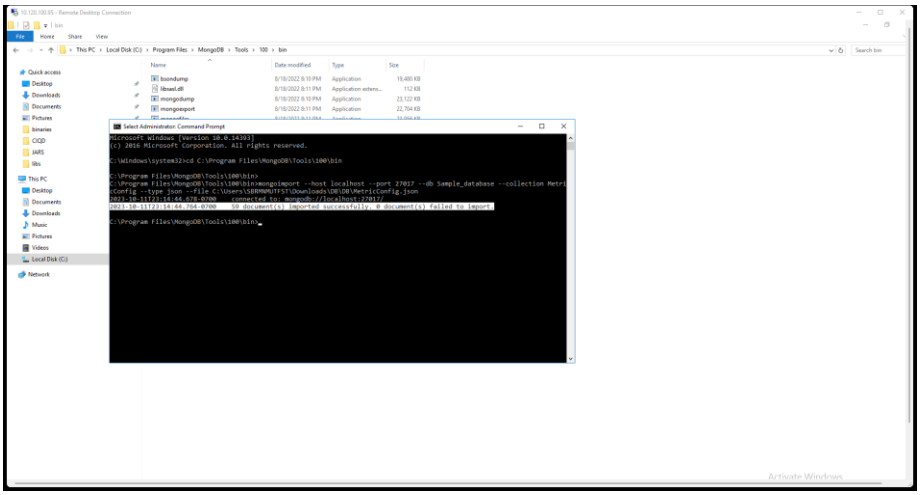

Figure 13: Collection import through CMD

5. Configuration of CIQ-Dashboard Jars & UI

5.1 UI Binaries/Setup Files

- Please build the binaries from the respective repositories.
- Create a new folder in a drive (**Example:** C:\ciqdashboard\ciqdashboard_deployment~~\binaries~~) or use any existing folder
- Paste the ciqdashboard-ui-binaries in the ciqdashboard_deployment ~~Binaries~~ folder

5.2 Execute auth-api-3.0.0.jar

- Open the command prompt and navigate to **bin** folder (Refer the section Binaries/Setup Files
- In the Command prompt type java -jar auth-api-3.0.0.jar
- java -jar <jarName> --spring.data.mongodb.uri="mongodb://localhost:27017/<DB Name>"

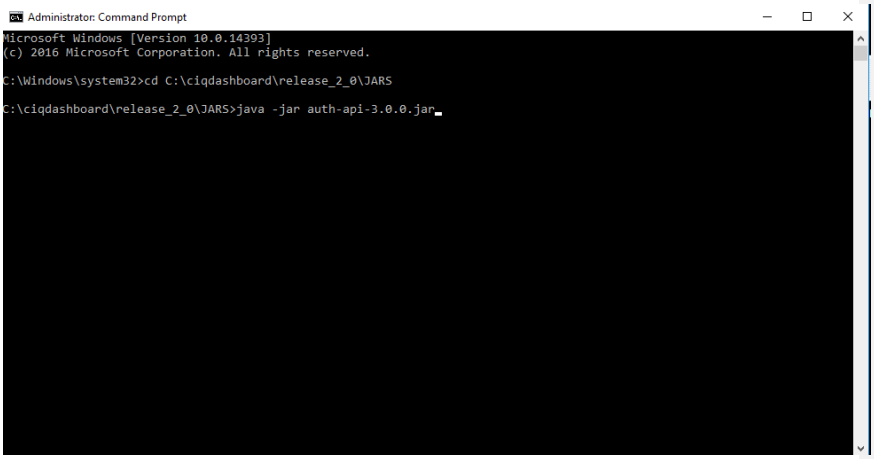

Figure 14: Administrator Command Prompt

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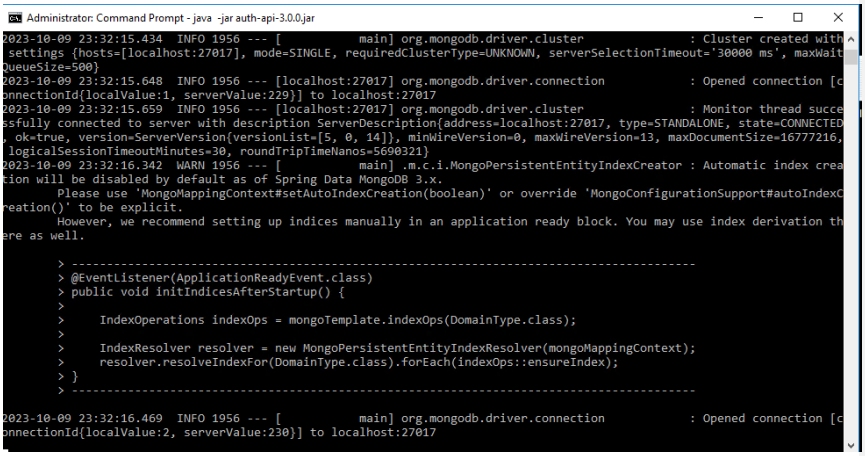

Figure 15: Execute auth-api

5.3 Execute ciqdashboard-api-0.0.1.jar

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- Open the command prompt and navigate to **bin** folder (Refer the section Binaries/Setup Files)
- In the Command prompt type java -jar ciqdashboard-api-0.0.1.jar
- java -jar <jarName> --spring.data.mongodb.uri="mongodb://localhost:27017/<DB Name>"

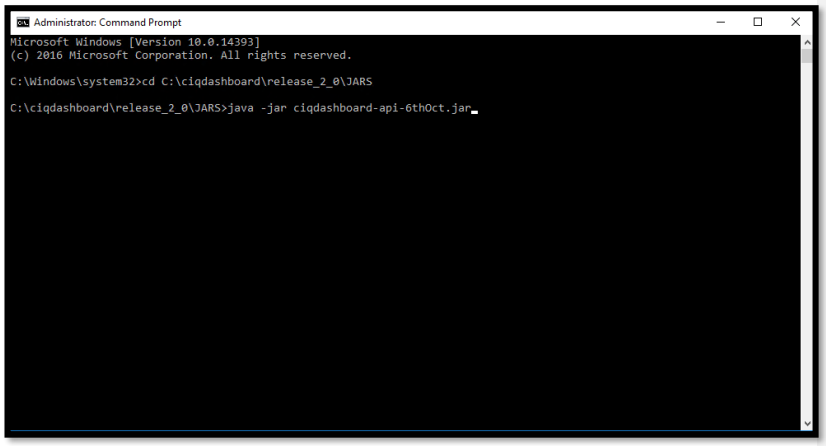

Figure 16: Administrator Command Prompt

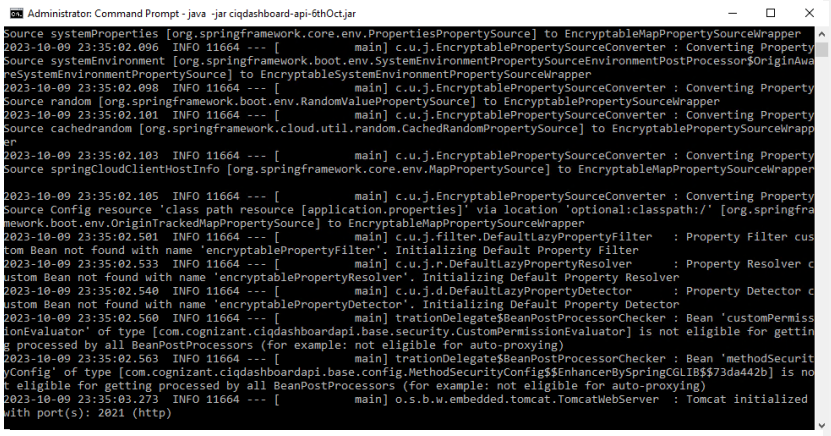

Figure 17: Execute ciqdashboard-api

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5.4 Execute MetricService-0.0.1

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- Open the command prompt and navigate to **bin** folder (Refer the section Binaries/Setup Files)
- In the Command prompt type java -jar MetricService-0.0.1
- java -jar <jarName> --spring.data.mongodb.uri="mongodb://localhost:27017/<DB Name>"

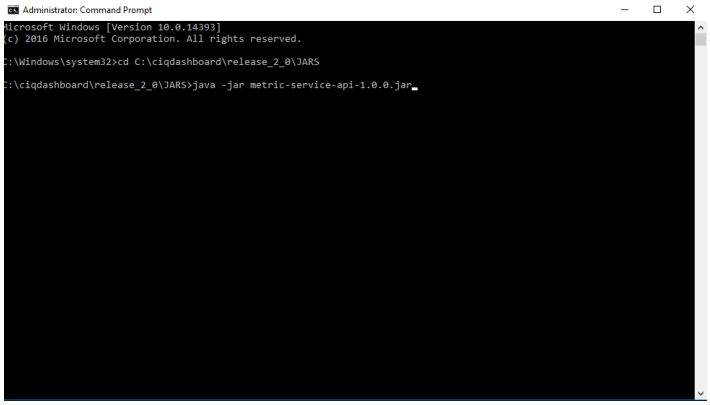

Figure 18: Administrator Command Prompt

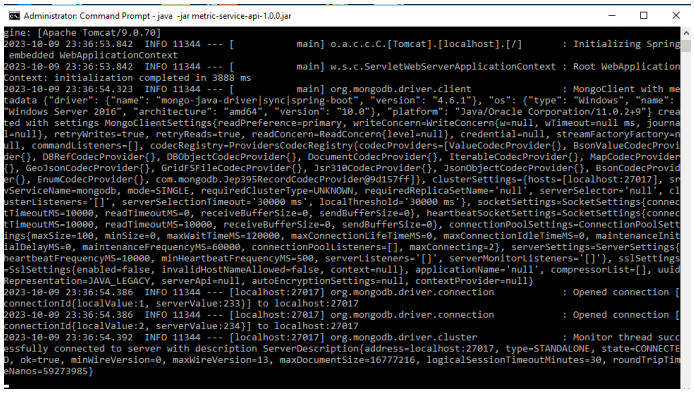

Figure 19: Execute MetricService

6. Installation/Configuration procedure of Nginx

6.1 NGINX Configuration

- Follow the steps below after downloading the software. Refer the section Software Requirements for downloading NGINX.
- Extract to any folder (Example: C:\ Drive)
- From binaries (Refer the section Binaries/Setup Files)->nginx, open nginx~~ciqdashboard~~.conf file, copy the entire available content and paste it in nginx folder->conf->nginx.conf

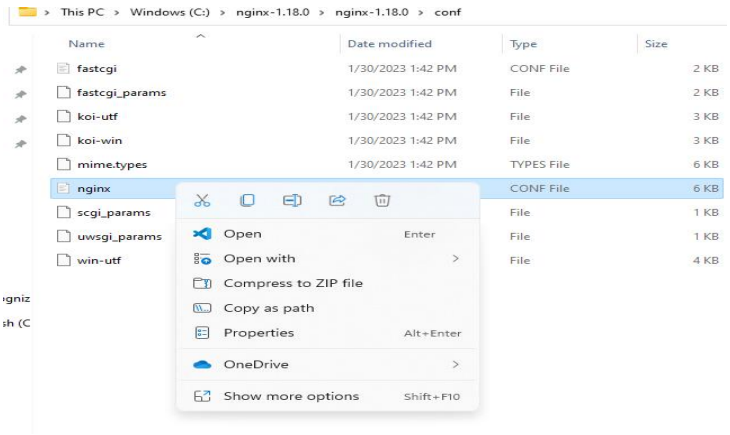

Figure 20: Nginx

Edit the UI binaries path in nginx.conf file and change the listen port to 202

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```
    location / {
    root C:\ciqdashboard\ciqdashboard_deployment\binaries;
            try_files $uri $uri/ /index.html;
            #proxy_set_header Access-Control-Allow-Origin '*';
    }
       location /api/idashboard {
                    #add_header 'Access-Control-Allow-Origin' '*';
                    proxy_pass http://localhost:2021/;
                    proxy_set_header Host $host:$server_port;
                    proxy_set_header X-Forwarded-Host $server_name;
                    proxy_set_header X-Real-IP $remote_addr;
                    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
                    proxy_set_header Connection '';
                    proxy_http_version 1.1;
                    chunked_transfer_encoding off;

                    add_header X-Frame-Options SAMEORIGIN;
                    add_header X-XSS-Protection "1; mode=block";
                    add_header X-Content-Type-Options "nosniff" always;
                    add_header Referrer-Policy "strict-origin" always;
                    add_header Feature-Policy "microphone 'none'; geolocation 'none'; camera 'none'" always;
                    add_header Cache-Control 'no-store, no-cache, must-revalidate, proxy-revalidate, max-age=0';
            }
            location /api {
                    #add_header 'Access-Control-Allow-Origin' '*';
                    proxy_pass http://localhost:2020/;
                    proxy_set_header Host $host:$server_port;
                    proxy_set_header X-Forwarded-Host $server_name;
                    proxy_set_header X-Real-IP $remote_addr;
                    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;

                    #add_header X-Frame-Options SAMEORIGIN;
                    #add_header X-XSS-Protection "1; mode=block";
                    #add_header X-Content-Type-Options "nosniff" always;
                    #add_header Referrer-Policy "strict-origin" always;
                    #add_header Feature-Policy "microphone 'none'; geolocation 'none'; camera 'none'" always;
                    #add_header Cache-Control 'no-store, no-cache, must-revalidate, proxy-revalidate, max-age=0';
            }
            location /api/metrics {
                    proxy_pass http://localhost:8099/api/metrics;
                    proxy_set_header Host $host:$server_port;
                    proxy_set_header X-Forwarded-Host $server_name;
                    proxy_set_header X-Real-IP $remote_addr;
                    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
                    #add_header 'Access-Control-Allow-Origin' '*';
                    add_header X-Frame-Options SAMEORIGIN;
                    add_header X-XSS-Protection "1; mode=block";
                    add_header X-Content-Type-Options "nosniff" always;
                    add_header Referrer-Policy "strict-origin" always;
                    add_header Feature-Policy "microphone 'none'; geolocation 'none'; camera 'none'" always;
                    add_header Cache-Control 'no-store, no-cache, must-revalidate, proxy-revalidate, max-age=0';
            }
```

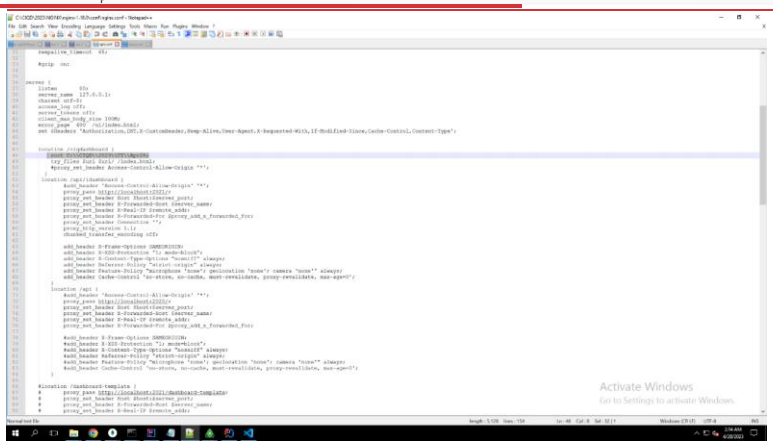

Figure 21: Nginx configuration Page

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- Open the command prompt as Administrator. Navigate to nginx folder path

extracted in C: drive and use command: start nginx to start the UI.

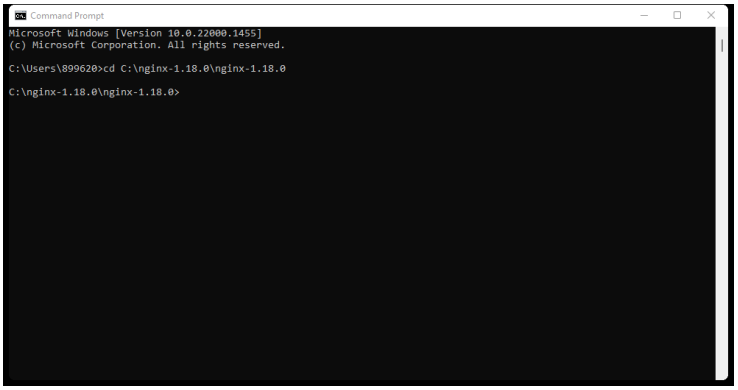

Figure 22: Nginx start through cmd

- To access localhost/ciqdashboard

7. Open UI page in browser

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- Open Chrome Browser
- Type : **localhost/ciqdashboard**

7.1 Login to User Id and Password

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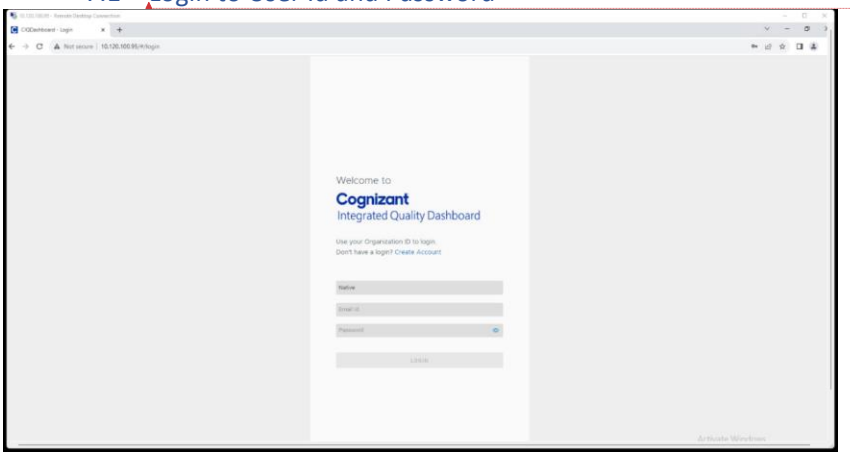

Figure 23:- ciqdashboard login page

7.2 Once you Login Ciq-dashboard Page will open

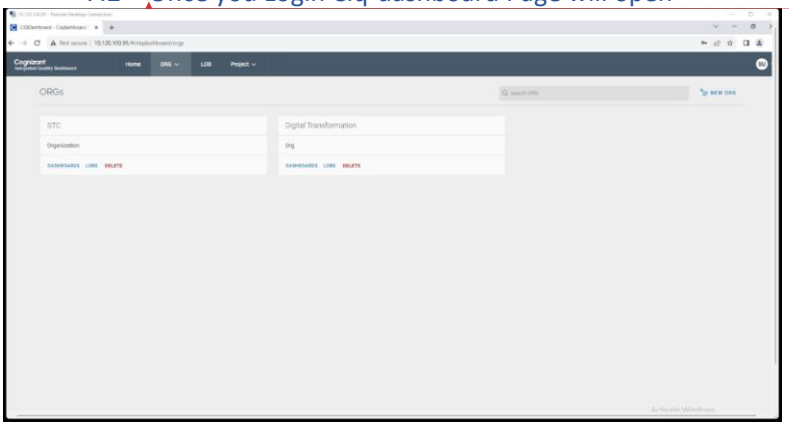

Figure 24:- ciqdashboard Page

7.3 Click on ORG to create new Organization and Filled the Data as per the Project

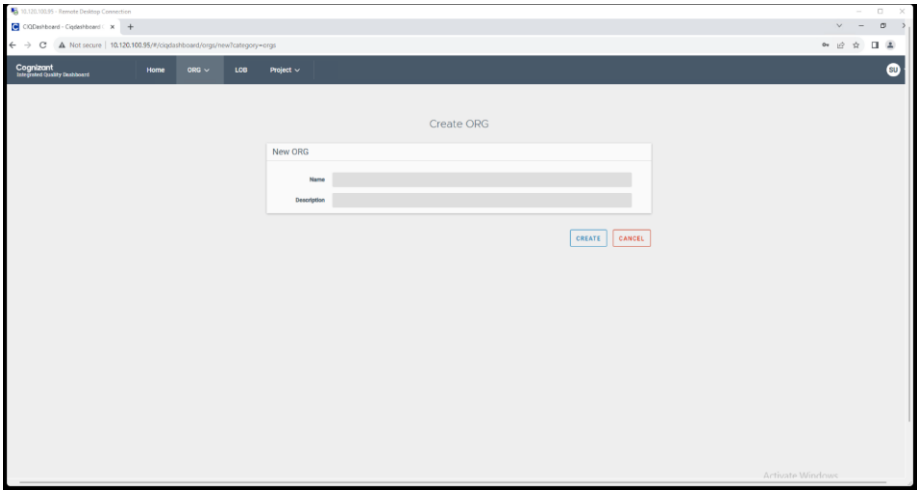

Figure 25:- ciqdashboard ORG creation

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7.4 Once the ORG created click on LOB(Line of Business)

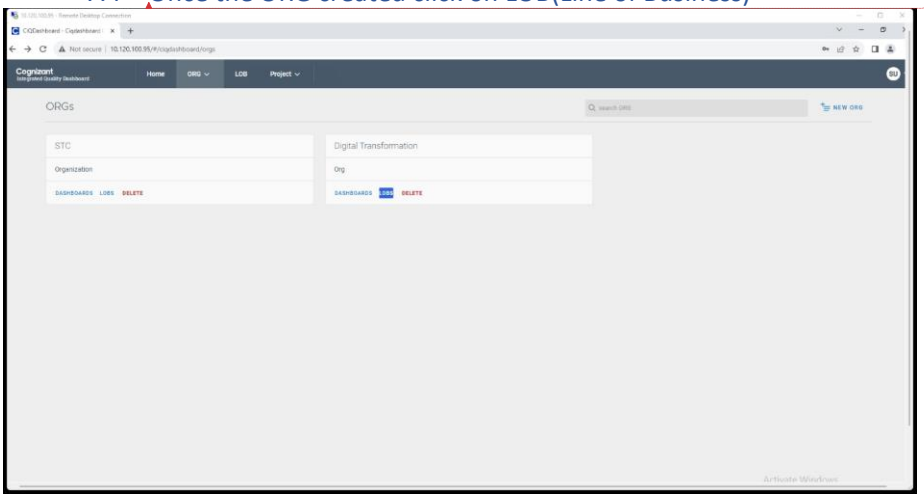

Figure 26:– ciqdashboard ORG page

7.5 Click on LOB to create a LOB(Line of Business) and filled the data

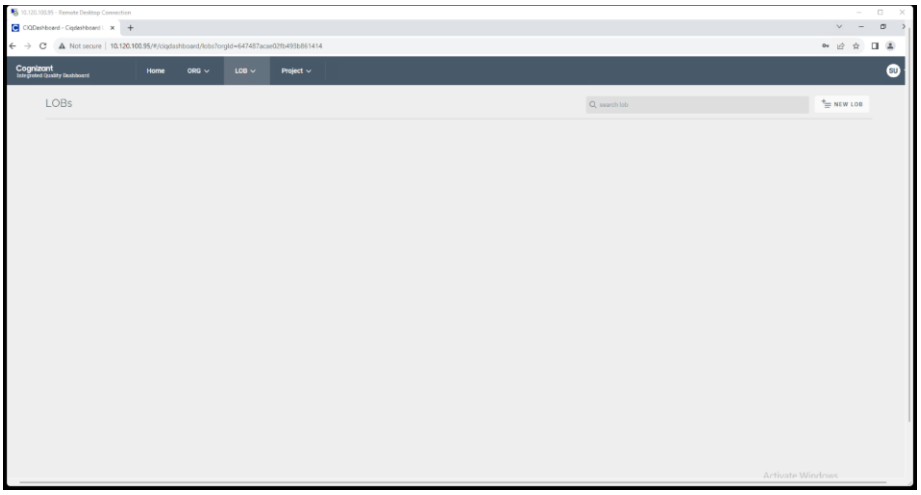

Figure 27:– ciqdashboard LOB Page

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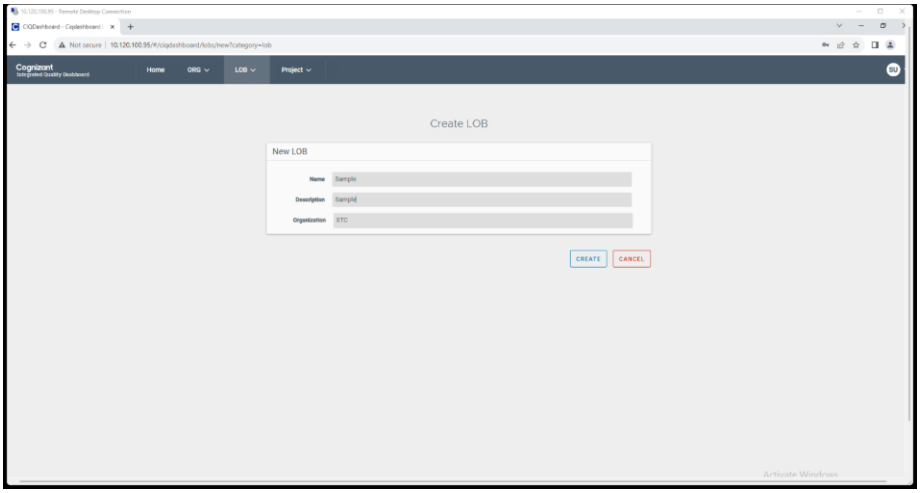

Figure 28:– ciqdashboard LOB creation

7.6 Once the LOB created click on project to create project

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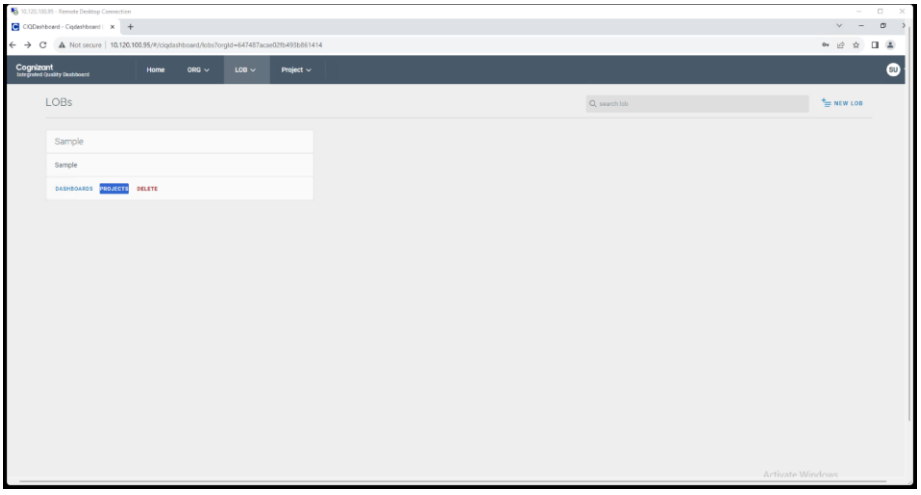

Figure 29:– ciqdashboard LOB page

7.7 Click on New Project to create Project

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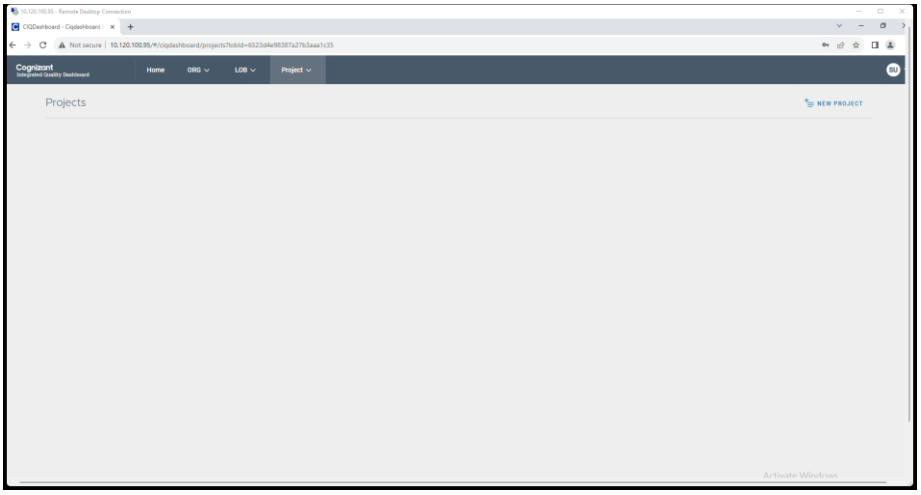

Figure 30:– ciqdashboard Project page

7.8 While Creating Project filled the Data as per ORG & LOB

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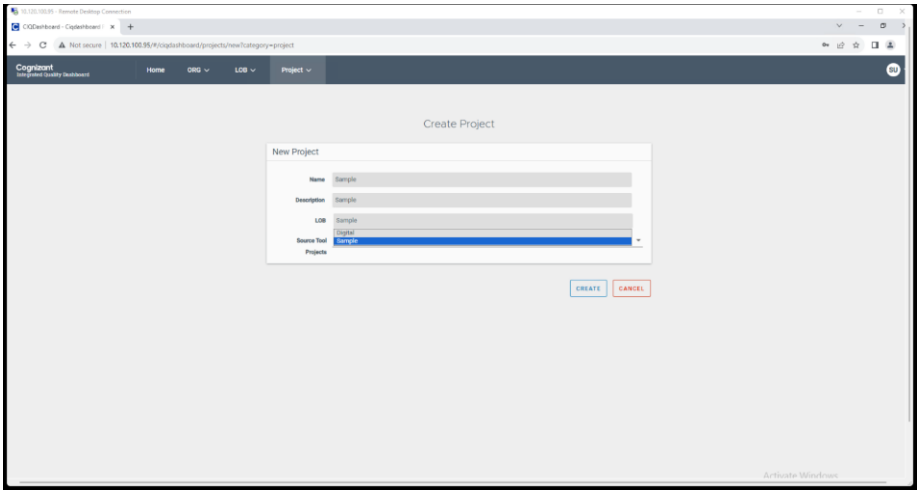

Figure 31:– ciqdashboard Project creation

7.9 In the Source Tools Project the project List will be pre-populated as project name from database

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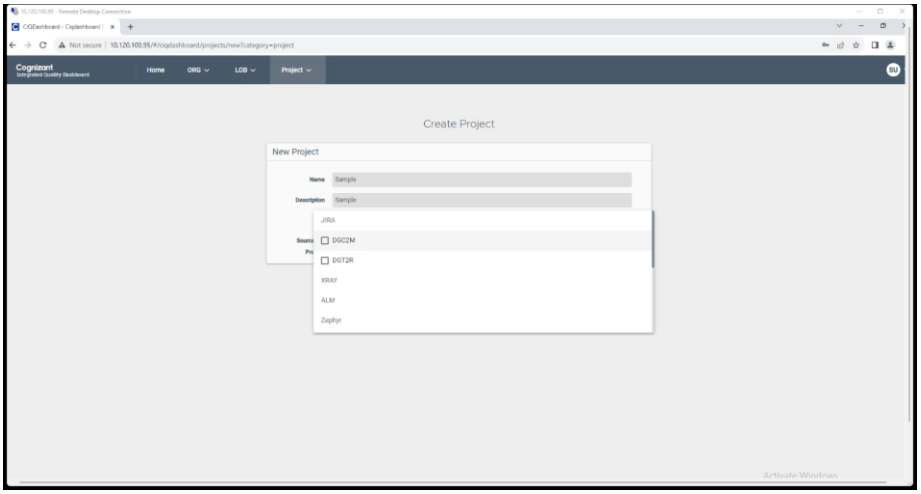

Figure 32:– ciqdashboard Source Tool

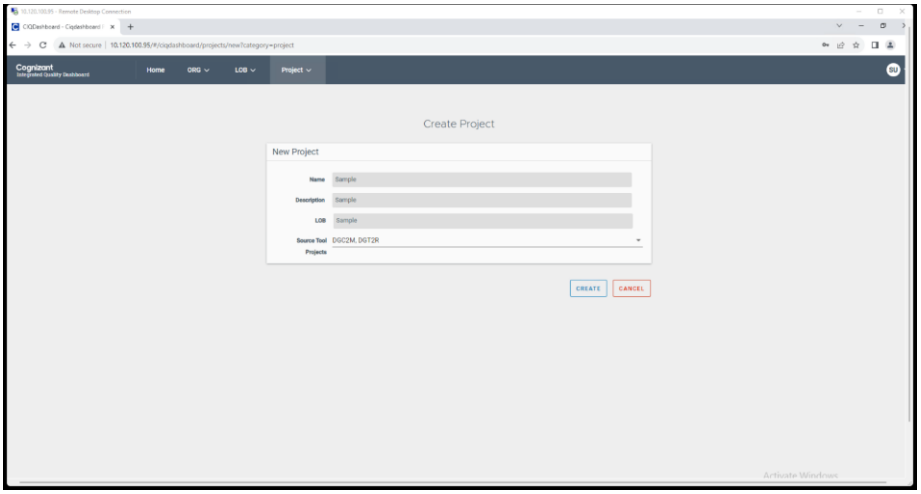

Figure 33:– ciqdashboard Project creation

7.10 After the project Created Click Dashboard

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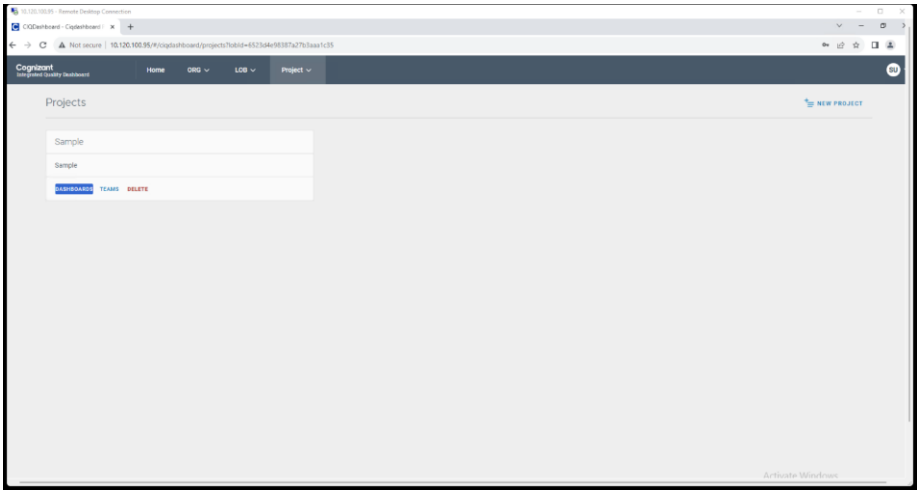

Figure 34:– ciqdashboard– project page

7.11 Create a Dashboard and name as per the Dashboard Name

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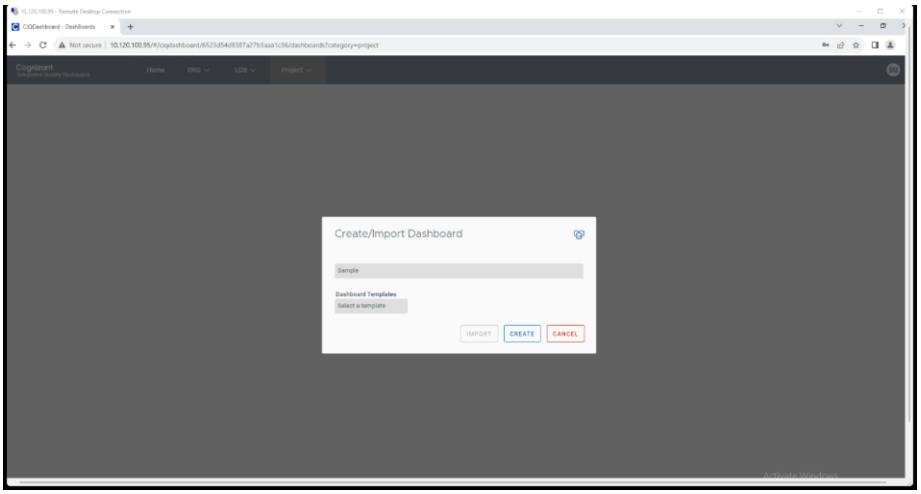

Figure 35:– ciqdashboard Dashboard creation

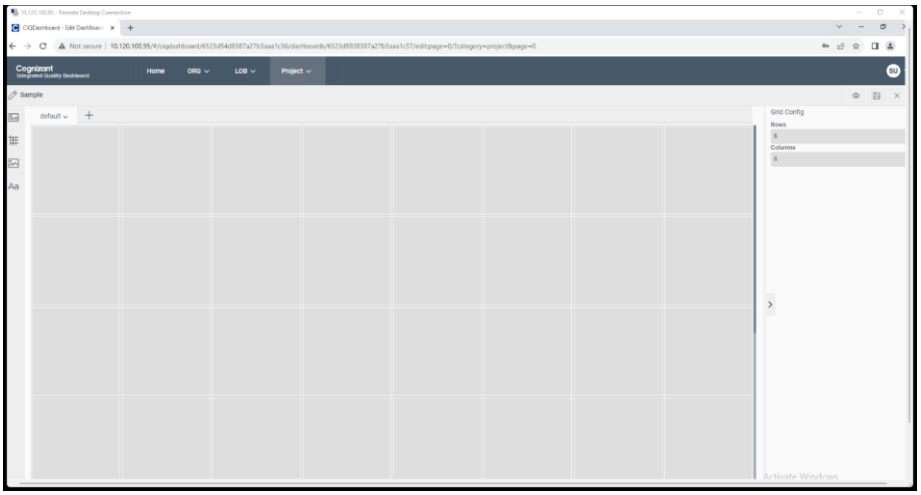

Figure 36:– ciqdashboard Dashboard page

7.12 Click on Left side Add chart and Drag into Dashboard

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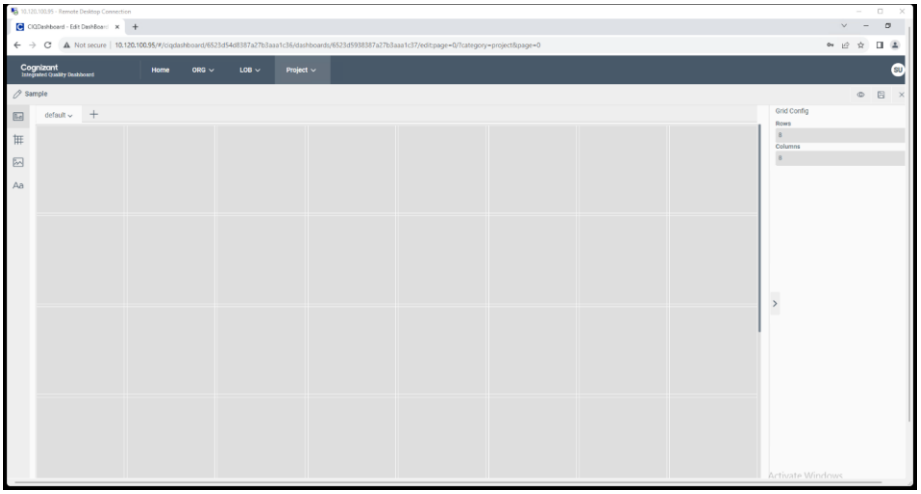

Figure 37:– ciqdashboard Edit Page

7.13 Click on the Graph to appear Data source option on right side and click Plus icon button to create Data source

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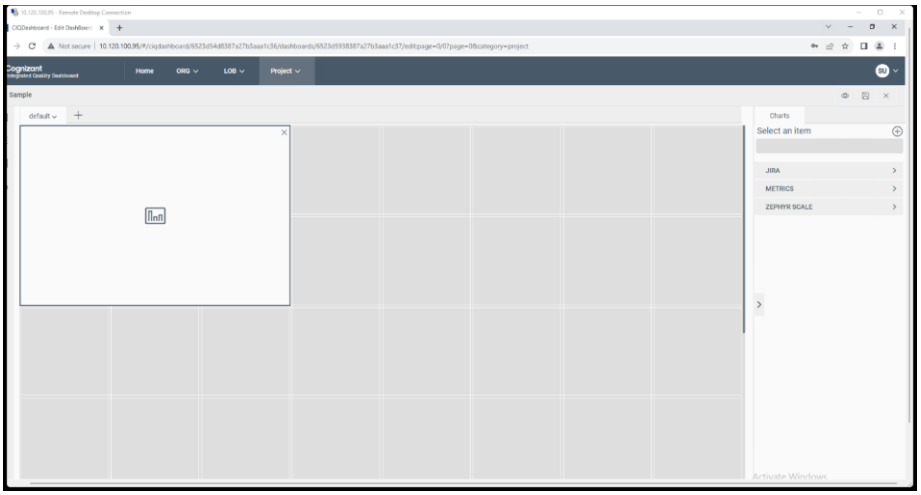

Figure 38:– ciqdashboard Garph

7.14 select any JIRA– Data Source as per Requirement

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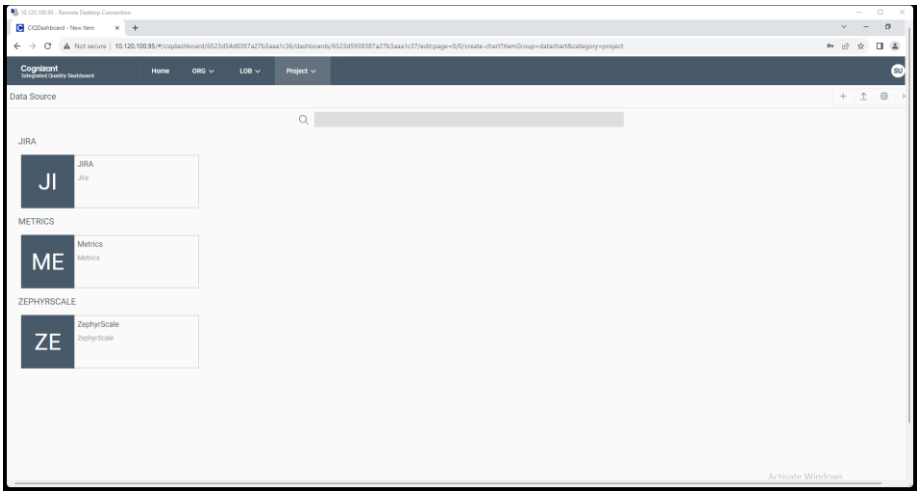

Figure 39:– ciqdashboard select Data Source

7.15 After Clicking Jira data, it should navigate to Item Types

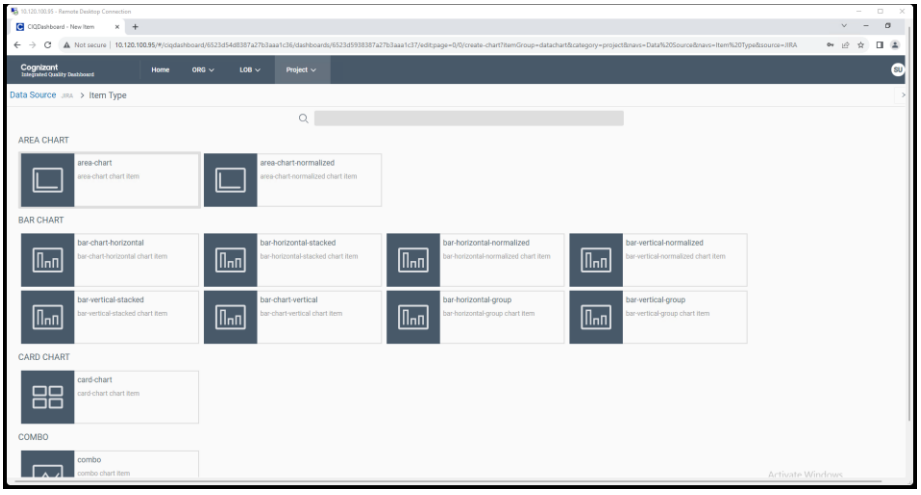

Figure 40:– Ciqdashboard Charts Selection

7.16 Sselect aAny cChart .

- Navigate to item option.
- Info in the name and description field put IssueTypeName.
- Data field Group by field should be select defect Type IssueTypeName.
- Inside the Options fields Title should be IssueTypeName.

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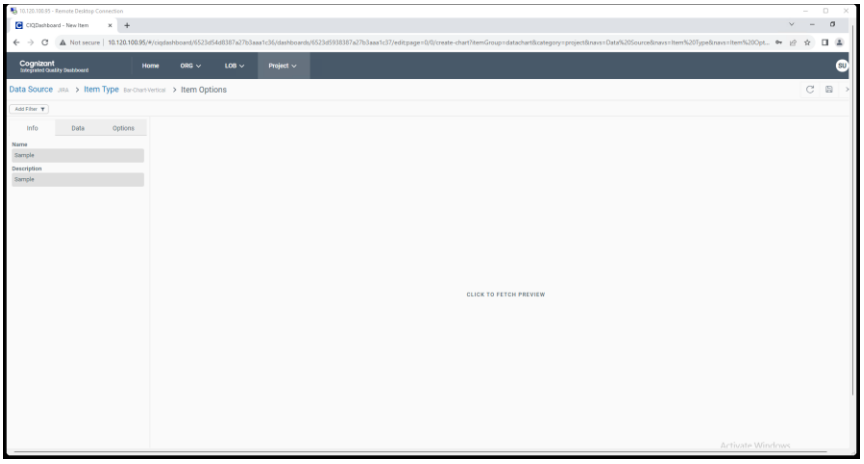

Figure 41:– Ciqdashboard Charts Data

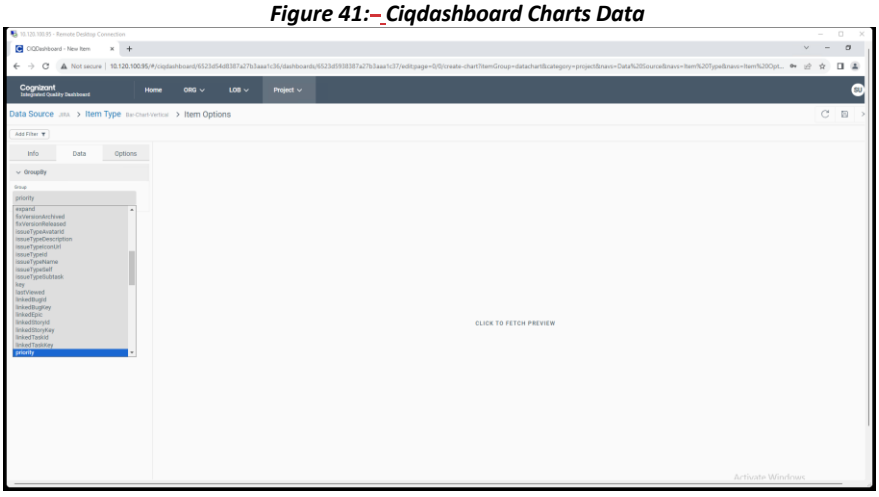

Figure 42:– Ciqdashboard GroupBy Selection

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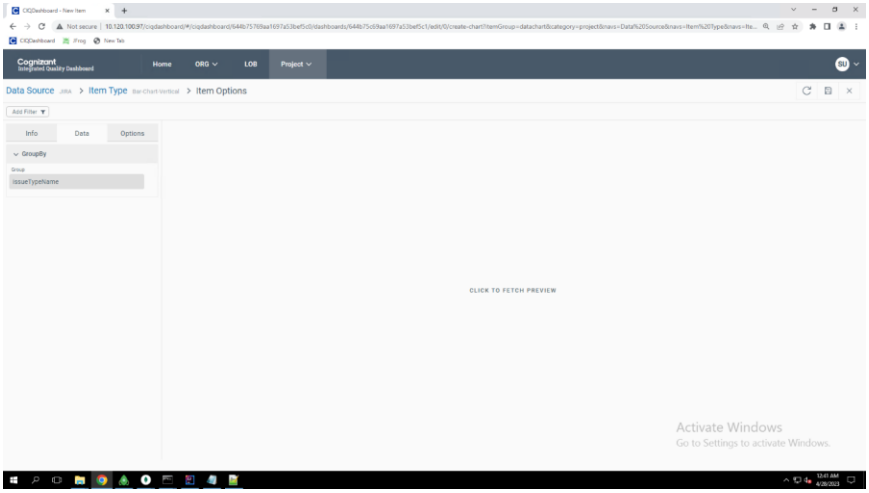

Figure 43:- Ciqdashboard Charts Edit Page

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7.17 Click on Fetch Preview

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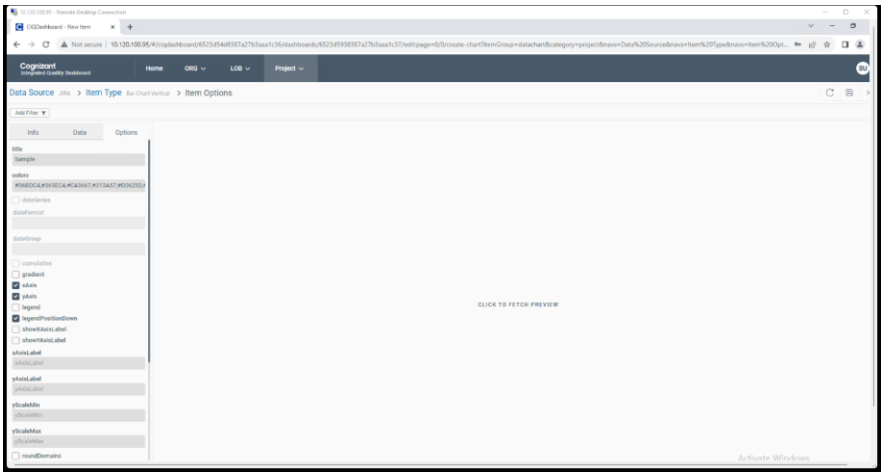

Figure 44:– Ciqdashboard Preview Page

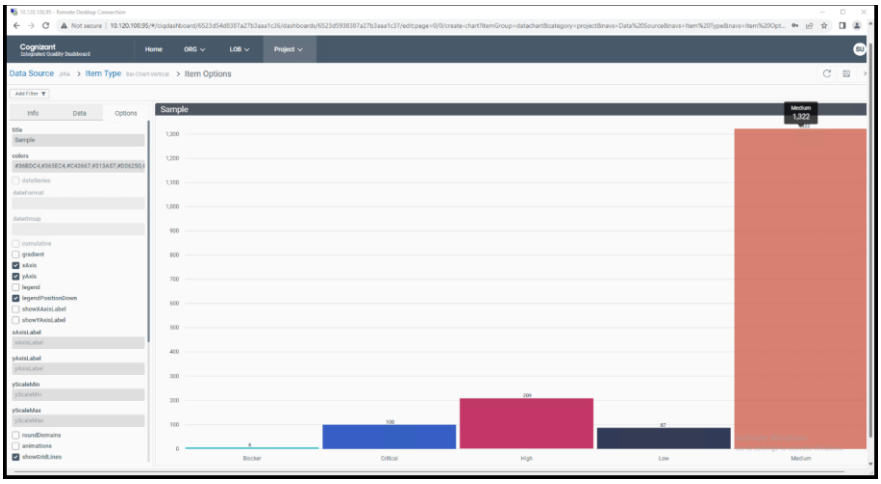

Figure 45:– Ciqdashboard Preview Graph

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7.18 Click on Save button to save the Chart

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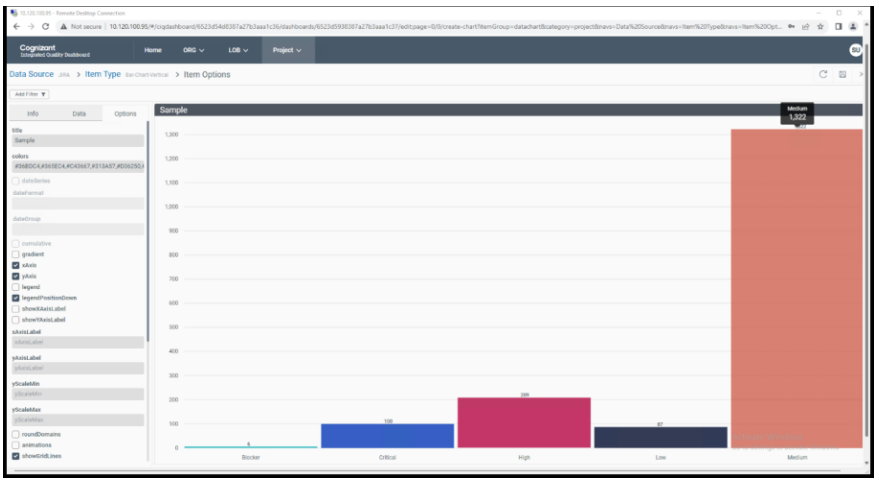

Figure 46:– Ciqdashboard Charts saving

7.19 Click on Save button to save the Dashboard

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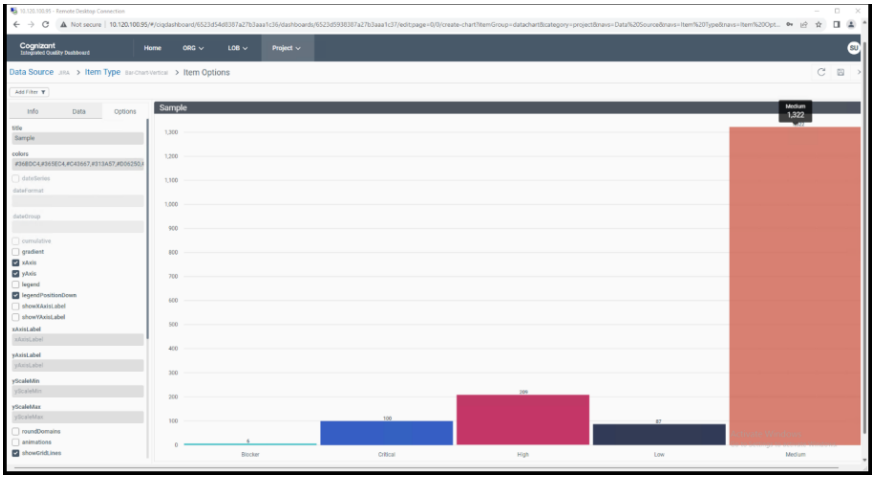

Figure 47:– Ciqdashboard Dashboard Saving

7.20 Click on the Close (x) button

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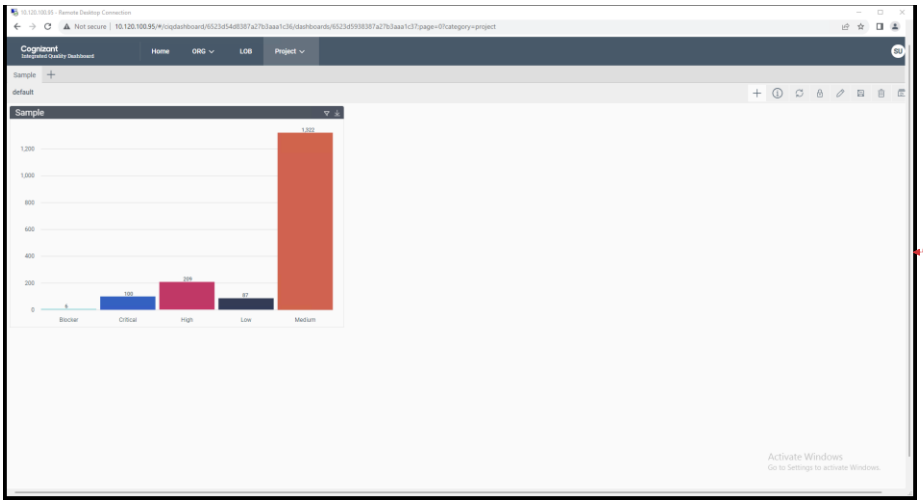

Figure 48:- Ciqdashboard Dashboard

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