



cQube

Release Notes

Release Version 1.0

June 2020

Document Release Version

Project	Release Date	Release Version
cQube Analytics Product	June 4, 2020	V 1.0

1. Objectives of the cQube release 1.0

cQube V 1.0 release, as a single step installable product, provides the capability of predefined actionable visualisations and downloadable reports along with basic admin functionalities.

In the V1.0 release, cQube can ingest data related to student attendance, assessment and school inspection. cQube processes these datasets to produce predefined student attendance and assessment along with school inspection visualisations. Along with the visualisations, downloadable reports are available for further analysis and focused action.

2. Scope

cQube product release features and issues are described in this version 1.0 of the document.

3. Summary of the Product Features

This document contains information on the following features of the cQube product:

1. One step Installation
2. Data emission API
3. Role based login for Admin, Report viewer and Emission users
4. Change Password
5. Create New User
6. Student Attendance Report
7. CRC App data Report
8. Semester Assessment Report

4. Compatibility:

- cQube version 1.0 works on ubuntu 18 as of now and will be made compatible with the ubuntu version 20 in the next release.
- cQube 1.0 works on firefox and google chrome.
- cQube works on android mobile devices, all functions work on the mobile devices except hovering on the dots (district, blocks and clusters, in the reports).

5. Description of the Product Features

One step Installation

[CQB-155](#)

SI No.	Feature	Description	Roles Impacted
1	cQube single command installation	All the cQube software will be downloaded and installed using a single command.	Admin users
2	cQube auto configuration	The cQube configuration will be provided automatically after the installation	Admin users
3	Workflow	Data flow process will initiate once the data emits to S3 emission bucket	Admin, Emission users

Data emission API Creation

[CQB-170](#)

SI No.	Feature	Description	Roles Impacted
1	API Access	Calling of the cQube's data emission API to connect with cQube	Emission users
2	One-time URL & Data emission	One-time URL will be created, data will be emitted through the one-time URL	Emission users
3.	Data	Data will be emitted in the sequential process for the first time there after being emitted in parallel.	Emission users

Role based Login

[CQB-192](#)

SI No.	Feature	Description	Roles Impacted
1	Role based login functionality	After User authentication, users can access the menus and functionalities according to his/her role. Admin, Report viewer and Emission user roles have been covered for this release	All users
2	Admin user role functionality	Admin users can access the Reports Admin Users can create new users.	Admin users

3	Report viewer role	Report viewer users can access Student attendance report, Semester report and CRC report	Report viewer users
4	Emission users	Emission users will access the emission API	Emission users

Change Password

[CQB-216](#)

SI No.	Feature	Description	Roles Impacted
1	Changing of password	Users will be able to change his/her password using this functionality. Post login user has access to the user interface where the current password can be changed and a new password can be created	All users

Create New User

[CQB-218](#)

SI No.	Feature	Description	Roles Impacted
1	Creation of new cQube user	Admin users can create a new cQube user. With the user interface provided, a single user can be created at a time in this release.	Admin users

Student Attendance Report

[CQB-47](#), [CQB-57](#), [CQB-60](#), [CQB-67](#), [CQB-58](#), [CQB-72](#), [CQB-123](#), [CQB-59](#)

SI No.	Feature	Description	Roles Impacted
1	Map Report	State, District, Block, Cluster, and school level Student attendance percentages are displayed in the Maps based on the user's selection.	Admin, Report viewer users
2	Color Gradient	The color gradient on the map shows the attendance percentage levels of the students. Red shows lowest attendance and green shows highest attendance.	Admin, Report viewer users

3	Drill Down Functionality	A hierarchical drill down functionality from state level to school level is available and can be accessed by clicking on the individual dots in the map.	Admin, Report viewer users
4	User selection functionality	District-wise, Block-wise and Cluster-wise reports are displayed based on the user's selection.	Admin, Report viewer users
5	Download metrics data	Download functionality for the report metrics is available at various levels like the district, block and cluster levels.	Admin, Report viewer users
6	Time series Functionality	Reports will be generated based on the selected month and the year	Admin, Report viewer users
7	Workflow	Student attendance data reports have been covered for 3 months of historical data, i.e data from august 2019 to december 2019	

CRC App Data Report

[CQB-178](#), [CQB-179](#), [CQB-180](#), [CQB-181](#), [CQB-182](#), [CQB-184](#), [CQB-185](#)

No.	Feature	Description	Roles Impacted
1	Bubble Chart		Admin, Report viewer users
2	x-y Axis Data		Admin, Report viewer users
3	Table data		
4	Geo selection	Display of the reports based on the district, block and cluster, as selected by the user.	Admin, Report viewer users
5	Download metrics data	Download functionality for the report metrics is available at various levels like the district, block and cluster levels.	Admin, Report viewer users
6	Time series Functionality	Reports will be generated based on the selected month and the year	Admin, Report viewer users
7	Workflow	CRC reports have been developed using the latest one month's data.	

Student Assessment Report

[CQB-206](#), [CQB-207](#), [CQB-208](#), [CQB-209](#), [CQB-210](#), [CQB-211](#), [CQB-212](#), [CQB-213](#), [CQB-214](#)

No.	Feature	Description	Roles Impacted
1	Map Report	State, District, Block, Cluster, and school level Student assessment percentages/ levels are displayed on the Maps based on the user's selection	Admin, Report viewer users
2	Color Gradient	The color gradient on the map shows the attendance assessment percentages/ levels of the students. Red shows lowest performance and green shows highest performance.	Admin, Report viewer users
3	Drill Down Functionality	A hierarchical drill down functionality from state level to school level is available and can be accessed by clicking on the individual dots in the map.	Admin, Report viewer users
4	User selection functionality	District-wise, Block-wise and Cluster-wise reports are displayed based on the user's selection.	Admin, Report viewer users
5	Download metrics data	Download functionality for the report metrics is available at various levels like the district, block and cluster levels.	Admin, Report viewer users
6	Time series Functionality	Report should generate based on the selected month and the year	Admin, Report viewer users
7	Workflow	. Student assessment reports have been developed using the latest semester assessment's data.	

6. Known Issues:

This is a section that describes all the known issues/ bugs that are present in the cQube product and they have been reported as being a part of this release.

SI No	Component	Issues
1	Workflow	When there are duplicate records in the data file, The nifi validations do not happen currently. This will be corrected in the next release. CQB-324
2	Installation	After Installation is successful, a new S3 emission bucket is created. The new S3 emission bucket does not accept data immediately. It takes a minimum of two hours to start the emission. Further R&D is planned to find a solution for this. CQB-325
3	CRC report	Performance issue in CRC reports. The data loading on the tables and charts in the school levels and cluster levels take approximately 40-50 seconds which is a longer time than other reports. CQB-326
4	Student Attendance & semester report	Performance issue in student attendance reports. The data loading on the maps in the school levels and cluster levels take approximately 6 seconds which is a longer time than others. Due to this, there are alignment issues in the reports, while loading markers on the map. CQB-327