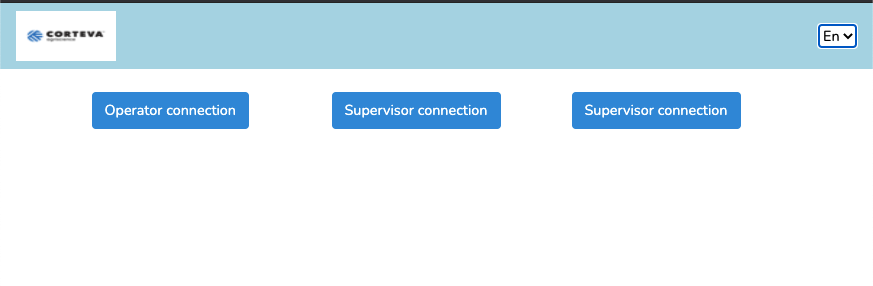
User guide

# Login page

When firstly accessing the application, the user is shown the following page:



Through this page, the user can connect to the application accordingly to its credentials, that could be, **operator**, **supervisor,** or **administrator**. Each credential will allow the user to access specific functions within the application. A user is identified by its username and password combination. Also, in this page the user can select the application’s language using the dropdown menu in the top right corner.

# Operator interface

When connected as an operator, the user is led to the following page:

Une image contenant texte

Description générée automatiquement

# Supervisor interface

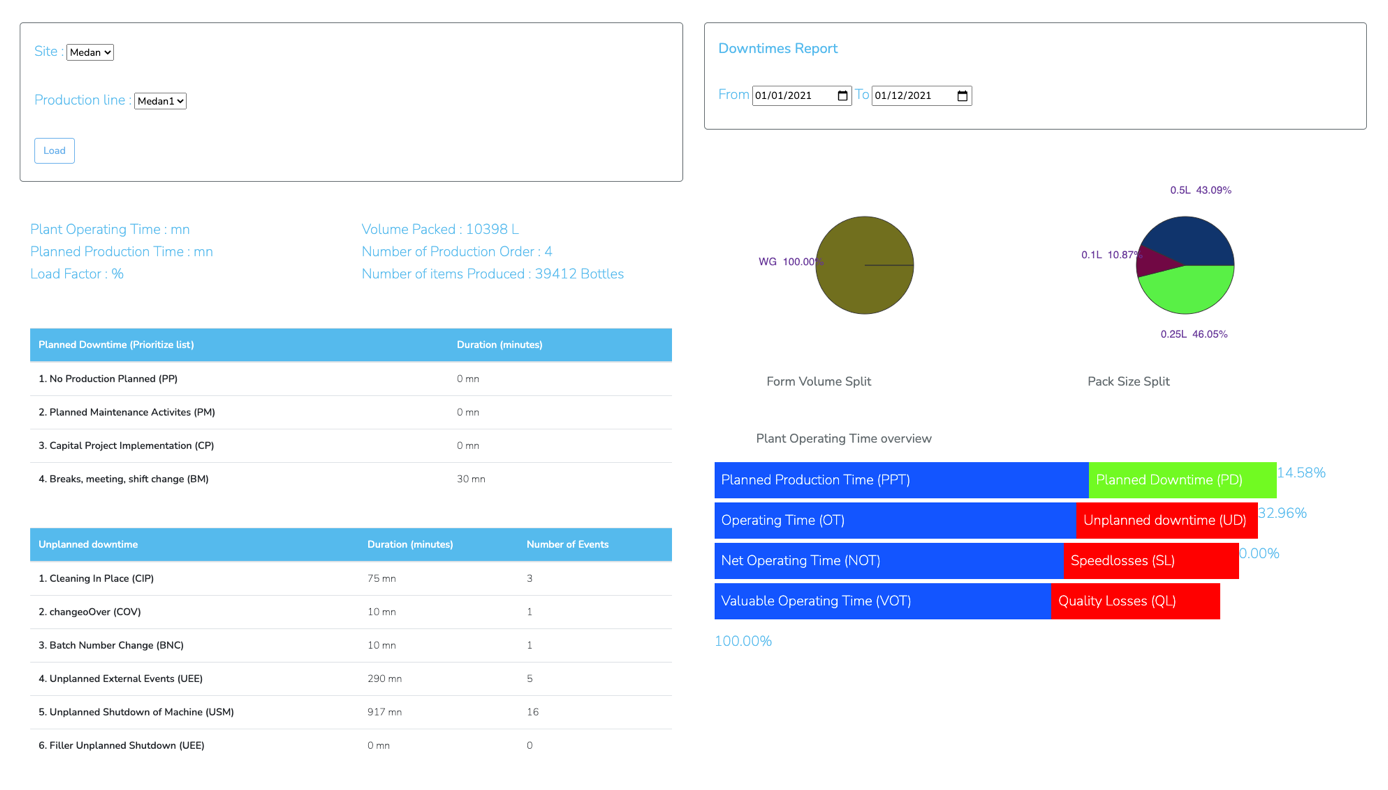
When connected as a supervisor, the user has access to the following functions, which can be select through the dropdown menu on the top right corner.

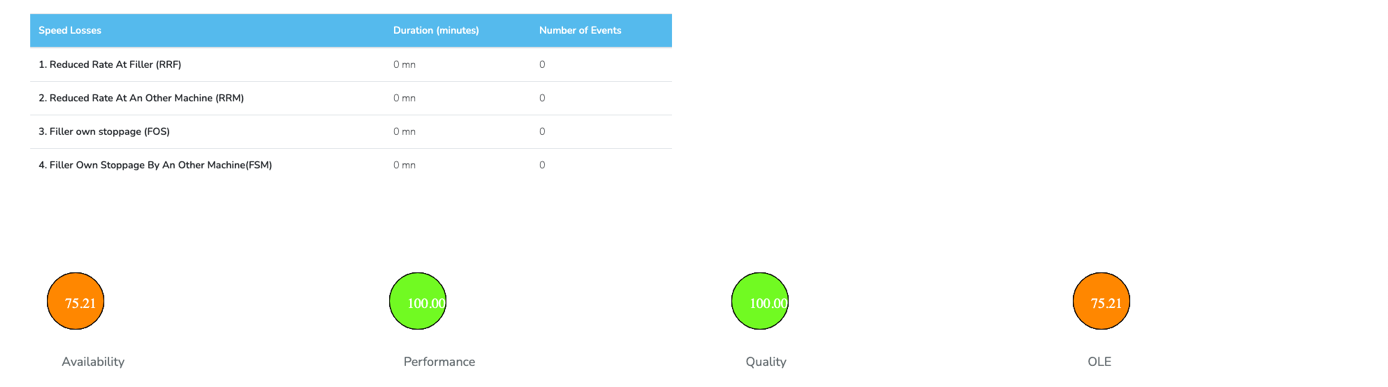
## Packaging Line ID

## Downtime Report

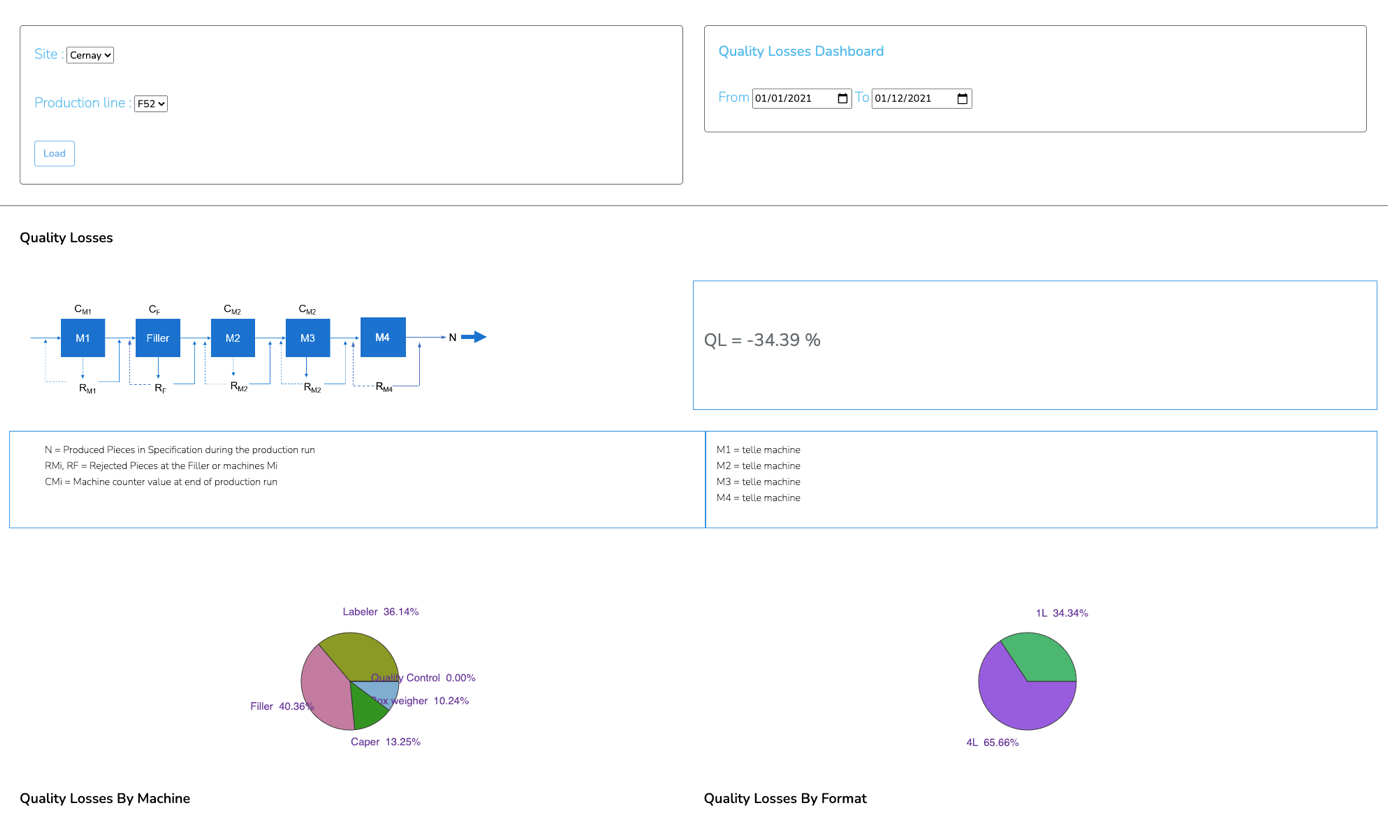
This function allows the user to consult the downtime report of the chosen product line and in a chosen date interval. The report includes, on the left, a list of planned downtimes, unplanned downtimes, and speed losses, with its durations.

On the right, two pie charts represents the form volume split and the pack size split for the chosen production line and date, and graphic information about the data in the tables. At the bottom of the page, indicators on availability, performance, quality and OLE are shown.





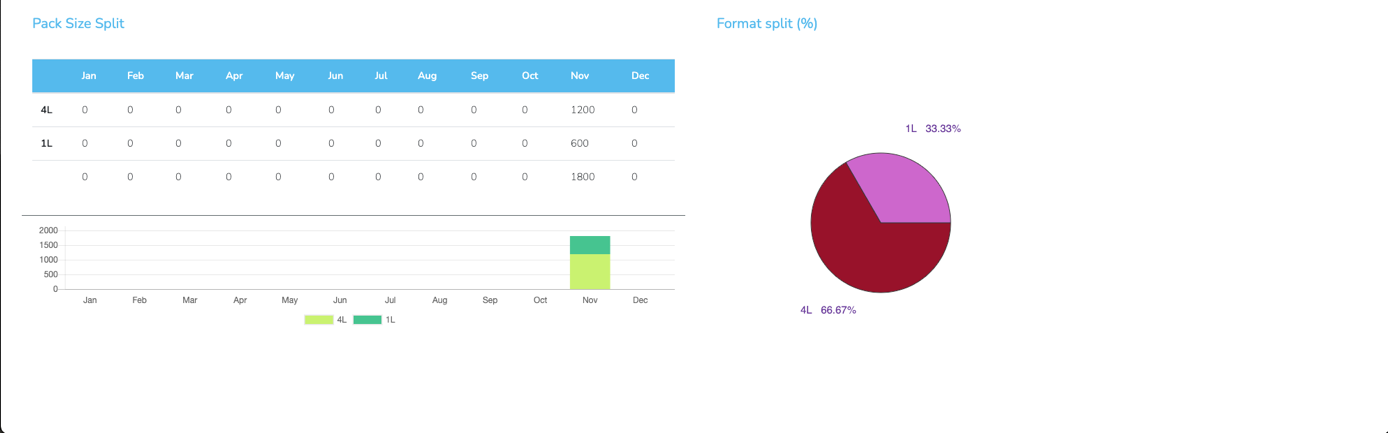
## Quality Losses Dashboard

Une image contenant texte, armoire, capture d’écran

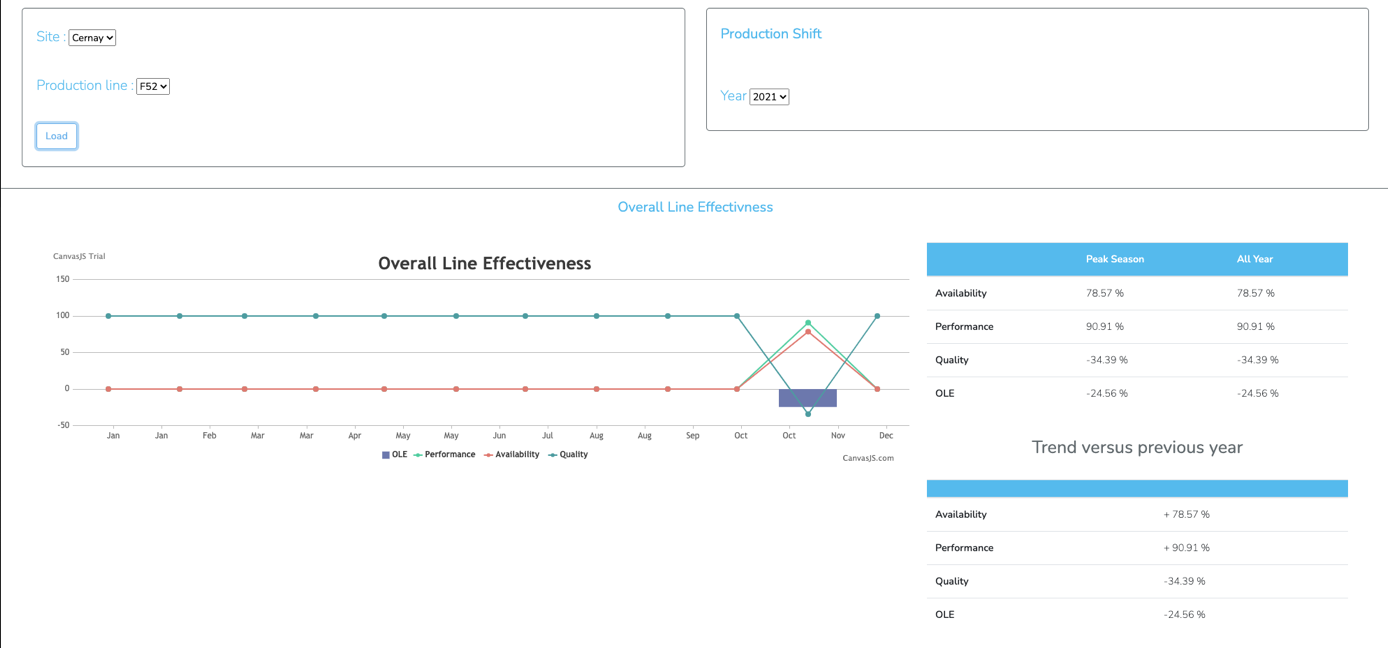
Description générée automatiquement

## Production Dashboard

## 



## Overall Line Effectiveness



## Unplanned Downtime Dashboard

This page shows different data about unplanned downtime events, which are of type **Cleaning in Place (CIP)**, **Change-Over (COV)** and **Batch Number Change (BNC)**.

To visualize the data the user must first select a site and a production line, all data shown in the page will concern that selection.

The upper portion of this page’s interface shows unplanned events related data, concerning the current year. A table shows **CIP**, **COV** and **BNC** eventsnumbers and durations for each month of the current year. A frame next to the table shows synthetic yearly data for each event category, including total duration, number, and average duration. At the bottom of this section three graphs show the number of events of each category broken down into 10-minute intervals, as well as the percentage of the yearly duration of each event compared to the total duration of unplanned downtime, again with respect to the current year.

The bottom portion includes a production window, where the user can select custom dates to filter the data. Within the production window, a table shows the total number and duration of each downtime category with respect to the selected dates. Still in this portion, one table shows duration, number, average duration, and standard deviation of each CIP sequence. Another table shows the same information about COV volumes. As with the previous section, all data concerns the selected production line.

## Unplanned Downtime Shutdowns

This page shows different data about unplanned downtime shutdowns, which can be of type **machine shutdown** or **external shutdown**. To visualize the data, the user must first select a site and a production line.

The left section of the page regroups data concerning machine shutdowns. A graph shows, by machine, the total duration and number of shutdowns, during the current year. A table show, by machine, the total duration, total number, and average duration of shutdowns. The same information is shown for the subcategory reason of shutdown, for each machine. Finally, for each reason of shutdown, the same information is shown for each commentary, producing a synthetic vision of all the shutdowns. The percentage of machine shutdowns compared to the total shutdown downtime is also calculated and shown at the bottom.

The tables’ structure looks like this:

|  |  |  |  |
| --- | --- | --- | --- |
| Machine Shutdown | Total downtime | Frequency | Average duration |
| *MACHINE 1*  *REASON 1*  *COMMENT 1*  *COMMENT 2*  *REASON 2*  *COMMENT 1* | 100  60  15  45  80  80 | 5  4  1  3  1  1 | 15  15  15  80  80 |

The right second follows the same structure, but for external shutdowns. For external shutdowns, the table only shows information about the concerned machine and not the reason or comment.

## Unplanned Downtime Speed Losses

This page shows data about unplanned downtime speed losses, which can be of type **filler own stop** or **reduce rate at filler**. To visualize the data, the user must first select a site, a production line and a date interval using the menu at the top of the page.

For each of the types, a table containing **Production Order**, **Format**, **Design Rate**, **Reduce Rate**, **Wasted Time**, and **Comment/Reason**. Also, graphs showing total time and number for the subtypes **filler own stop** and **filler stop by other machine**, and **reduce rate at filler** and **reduce rate at filler due to another machine capacity** downtimes are shown.