Software Requirements Specification

For Batch View Phase(I) Module

CVC Pharma LLP

**Version 1**

**Author: Naresh Ghadi Last Modified on: 03 July 2020**

Contents

[1 Document History 3](#_Toc44670479)

[2. Introduction 4](#_Toc44670480)

[2.1 Purpose 4](#_Toc44670481)

[2.2 Roles and Responsibilities 5](#_Toc44670482)

[2.3 Glossary of terms and Acronyms used 6](#_Toc44670483)

[3.Intended Audience and Reading Suggestions 6](#_Toc44670484)

[4 References 6](#_Toc44670485)

[5 History 6](#_Toc44670486)

[6 Goal 7](#_Toc44670487)

[7 Detailed Requirement – General 7](#_Toc44670488)

[7.1 System Requirement Details: 7](#_Toc44670489)

[7.1.1 Menu Item 7](#_Toc44670490)

[7.1.2 Batch View main screen layout 7](#_Toc44670499)

[7.1.3 Audit Log and Alarm Log for Running Batch in settings panel of Dashboard screen 10](#_Toc44670499)

[8 RS – Tags 12](#_Toc44670513)

# Document History

Document Details

| Document Template Number | Version 1 |
| --- | --- |
| **Document Template Version** | Version 1 |
| **Creation Date** | 03 June 2020 |
| **Owner** | CVC Pharma LLP |
| **Reviewer** | Arvind Prabhu, Vibha Kala |
| **Review Period** | 04 May 2020 to 12 May 2020 |

**Revision Timeline**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason for Change** | **Version** |
| Mr. Vinay Salian |  | Initial Draft | Version 1 |
| Mr .Vinay Salian | 11 May 2020 | Filling of Roles and responsibilities and updated Indexing | Version1 |

**Approvals**

This document requires the following approvals.

| Name | Signature | Title | Date of Issue | Version |
| --- | --- | --- | --- | --- |
| Arvind Prabhu |  | Managing Director |  | Version 1 |

**Distribution**

| Name | Title | Date of Issue | Version |
| --- | --- | --- | --- |
| CVC Pharma LLP | SRS Document |  | Version 1 |

# Introduction

## Purpose

The purpose of this document is to give a detailed description of the requirements for the new **Batch View** module and its’ integration to the existing **CVC IPC App**. It will illustrate the purpose and complete declaration for the development of module. It will also explain system constraints, interface and interactions with other external applications. This document is primarily intended to clearly document the requirements of the functionality to be added to the existing system. Once finalized and approved it will be a reference for developing the first version of the system for this functionality(s) for the development team to prepare the necessary FS-DS.

## Roles and Responsibilities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | | **Name** | | **Responsibilities** |
| **Project Sponsor** | | CVC Technologies | | Ø Approve and Signoff the project Scope |
| Ø Evaluate need for scope change requests if any faced during development. |
| Ø Accept project deliverables |
| Ø Organize and facilitate scheduled weekly progress meetings with Team. |
| **Project Manager** | | Vinay Salian | | Ø Measure and verify project scope with the developer. |
| Ø Facilitate scope change requests if any deviation found during development or testing . |
| Ø Facilitate impact assessments of scope change requests if any. |
| Ø Communicate outcomes of scope change requests |
| Ø Update project documents upon approval of scope change |
|  | |  | | Ø Manage project team and ensure deliverables within timelines. | |
| Ø Conduct Daily and weekly review meetings with developer and ensure project timelines are met. | |
| **Developer** | | Naresh Ghadi | | Ø Measure and verify project scope and prepare a Project Plan with accurate timelines. | |
| Ø Understand and align with the Technical aspect and Business process and prepare SRS document. | |
| Ø Preparation of Functional Specification document based on requirements | |
| Ø Translate functional requirement into detailed design Specification document | |
| Ø Prepare Test Cases and Test the functionality to ensure that they meet the requirements of the specification and that they are free of errors, bugs, and issues. | |
|  | |  | | Ø Write, test and debug code the required functionality as per SDLC documents. | |
|  | |  | | Ø Daily meetings with the project manager to discuss progress and issues | |
|  | |  | | Ø Participate, review, and discuss with the Team in accordance with the timelines as laid out in the Project Plan. | |
|  | |  | | Ø Participate in impact assessments of scope change requests if any. | |
|  | |  | | Ø Communicate with the team outcomes of scope change requests, to team | |
|  | |  | | Ø Evaluate the need for scope changes and communicate them to the project manager as necessary | |
|  | |  | | Ø Provide Support for issues, bugs and change requests . | |

## Glossary of terms and Acronyms used

|  |  |
| --- | --- |
| **FS** | Functional Specification |
| **DS** | Design Specification |
| **RS** | Requirement Specification |
| **DB** | Database |
| **UI** | User Interface |

# 3.Intended Audience and Reading Suggestions

The document is intended to be used by the current and future development teams, outside project advisers and stakeholders who are associated with Strike point. This document contains technical information regarding the specifications, and requirements. The document would be followed strictly during the development and any deviation from the specification will be treated as a change request. The change requests would be communicated via additional CRF document.

# References

Microsoft, "ASP.NET MVC 2 - Areas," 22 04 2010. [Online]. Available: https://docs.microsoft.com/en-us/aspnet/mvc/videos/mvc-2/how-do-i/aspnet-mvc-2-areas. [Accessed 07 05 2020].

# History

On onset of mandatory regulations of 21 CFR Part 11 by US FDA ,a need for developing an application which will cater for the missing features required for regulations for present machines as well as new machines had to be developed . Looking forward to this venture CVC has undertaken the task develop a robust Microsoft ASP dot net MVC based application with MSSQL database which will not only cater 21 CFR features but also provide enhanced features for connecting most of the machines for a counting line . However the software is restricted to set of rules and cannot be customized as per user requirement. Hence t enhance the capabilities

of the software developed over the years a need for workflow model which will give the user the freedom to create own set of conditions and rules , thereby increasing the efficiency and usability of the software.

## Goal

CVC IPC App needs to have a customizable application that allows users to define, manage, and enforce processes, thereby creating process automation at any level from the application. Batch View module has to allow users to view batch list, batch details and view and download batch related audit log, alarm log,user log and recipe log report.

## 7. Detail Requirement - General

This section contains all of the functional and quality requirements of the system. It gives a detailed description of the system and all its features. There need to be a Batch View engine which can be administrated from the existing application (RS1).

### 7.1 System Requirement Details

### 7.1.1 Menu Item

Application should have Screen named **“Batch View”** in the Menu Item “Machine Customization”. It will open the Batch View main screen ( RS2).

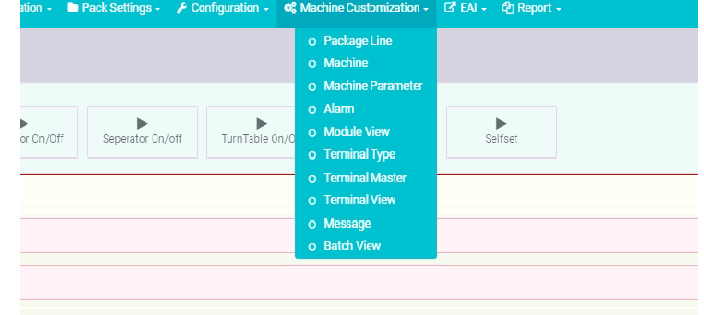


Figure Menu Batch View



### Batch View main screen layout

Batch View Main Screen contains two parts as top and bottom views (RS3). Top view has to show all the available or created batch in a grid (RS4).

Top Table/List of batch contain Batch number, Batch start date, batch end date, batch size and batch status

Top Table/List of batch have pagination which shows default 10 record per page and you can select page size from record per page dropdown.

Pagination bar placed in bottom of table which contain page number and previous and next button

Top Table/List of batch have search box placed in top right side of table which search record from list of batch by any properties which available in table

Top Table/List of batch have sorting properties that is up and down arrow for each column which sort record in ascending and descending order

Top Table/List Batch have one pdf download button from which user can download whole batch report in pdf format

Top Table/List Batch have Batch start date and batch end date date filter which will filter record as per selection

Bottom view is tab stripe which contain following tabs

1.Details

2.Audit Log

3.Alarm Log

4.Recipe Log

5.User Log

**1.Details Tab:**

Details tab show all the properties of selected batch view. First record of batch will automatically select in the top grid and details displayed in the bottom view by default when the Screen is selected for display (RS6).

**2. Audit Log:**

Audit tab show all the records which saved in auditlog table of selected batch. First record of batch will automatically select in the top grid and audit log record related to that batch displayed in the audit log bottom view by default when the Screen is selected for display (RS6).

Table/List of Audit Log have pagination which shows default 10 record per page and you can select page size from record per page dropdown.

Pagination bar placed in bottom of Audit Log table which contain page number and previous and next button

Bottom Table/List of Audit Log have search box placed in top right side of table which search record from list of Alarm log by any properties which available in table

Bottom Table/List of Audit Log have sorting properties that is up and down arrow for each column which sort record in ascending and descending order

Bottom Table/List of Audit Log have one pdf download button from which user can download whole Audit Log for selected batch report in pdf format

Top Table/List of Audit Log have date filter which will filter record as per selection

**3. Alarm Log:**

Alarm tab show all the records which saved in alarm table of selected batch. First record of batch will automatically select in the top grid and alarm log record related to that batch displayed in the alarm log bottom view by default when the Screen is selected for display (RS6).

Table/List of Alarm Log have pagination which shows default 10 record per page and you can select page size from record per page dropdown.

Pagination bar placed in bottom of Alarm Log table which contain page number and previous and next button

Bottom Table/List of Alarm Log have search box placed in top right side of table which search record from list of Alarm log by any properties which available in table

Bottom Table/List of Alarm Log have sorting properties that is up and down arrow for each column which sort record in ascending and descending order

Bottom Table/List of Alarm Log have one pdf download button from which user can download whole Alarm Log for selected batch report in pdf format

Top Table/List of Alarm Log have date filter which will filter record as per selection

**4. Recipe Log:**

Recipe tab show all the records which saved in recipe table of selected batch. First record of batch will automatically select in the top grid and recipe log record related to that batch displayed in the Recipe log bottom view by default when the Screen is selected for display (RS6).

Recipe Log tab contain table/List of Recipe Log records of selected batch

Table/List of Recipe Log have pagination which shows default 10 record per page and you can select page size from record per page dropdown.

Pagination bar placed in bottom of Recipe Log table which contain page number and previous and next button

Bottom Table/List of Recipe Log have search box placed in top right side of table which search record from list of recipe log by any properties which available in table

Bottom Table/List of Recipe Log have sorting properties that is up and down arrow for each column which sort record in ascending and descending order

Bottom Table/List of Recipe Log have one pdf download button from which user can download whole Recipe Log for selected batch report in pdf format

Top Table/List of Recipe Log have date filter which will filter record as per selection

**5 . User Log:**

User tab show all the records which saved in user table of selected batch. First record of batch will automatically select in the top grid and user log record related to that batch displayed in the User log bottom view by default when the Screen is selected for display (RS6).

User Log tab contain table/List of User Log records of selected batch

Table/List of User Log have pagination which shows default 10 record per page and you can select page size from record per page dropdown.

Pagination bar placed in bottom of User Log table which contain page number and previous and next button

Bottom Table/List of User Log have search box placed in top right side of table which search record from list of User Log by any properties which available in table

Bottom Table/List of User Log have sorting properties that is up and down arrow for each column which sort record in ascending and descending order

Bottom Table/List of User Log have one pdf download button from which user can download whole User Log for selected batch report in pdf format

Top Table/List of User Log have date filter which will filter record as per selection

### 7.1.3 Audit Log and Alarm Log for Running Batch in settings panel of Dashboard screen

Settings Panel Screen contains two tabs for batch Audit Log and Alarm Log

**1.Audit Log**

Audit tab under settings panel show all the live records of running batch.

It display the record after batch creation.

If batch is ended then it will not display the record.

Table/List of audit Log in settings panel have pagination which shows default 10 record per page and you can select page size from record per page dropdown.

Pagination bar placed in bottom of Audit Log (in setting panel )table which contain page number and previous and next button

Bottom Table/List of Audit Log(in setting panel) have search box placed in top right side of table which search record from list of audit log by any properties which available in table

Bottom Table/List of Audit Log (in setting panel) have sorting properties that is up and down arrow for each column which sort record in ascending and descending order

Bottom Table/List of Audit Log (in setting panel) have one pdf download button from which user can download whole Audit Log (in setting panel) for running batch report in pdf format

Bottom Table/List of Audit Log (in setting panel) have date filter which will filter record as per selection

**2.Alarm Log**

Alarm tab under settings panel show all the live records of running batch.

It display the record after batch creation.

If batch is ended then it will not display the record.

Table/List of Alarm Log in settings panel have pagination which shows default 10 record per page and you can select page size from record per page dropdown.

Pagination bar placed in bottom of Alarm Log (in setting panel )table which contain page number and previous and next button

Bottom Table/List of Alarm Log(in setting panel) have search box placed in top right side of table which search record from list of Alarm log by any properties which available in table

Bottom Table/List of Alarm Log (in setting panel) have sorting properties that is up and down arrow for each column which sort record in ascending and descending order

Bottom Table/List of Alarm Log (in setting panel) have one pdf download button from which user can download whole Alarm Log (in setting panel) for running batch report in pdf format

Bottom Table/List of Alarm Log (in setting panel) have date filter which will filter record as per selection

Figure Workflow Main Screen Layout

## 8. RS – Tags

|  |  |  |
| --- | --- | --- |
| RS Tag |  | Description |
|  |  | There need to be a Batch View engine which can be administered from the existing application |
|  |  | Application should have Screen named Batch View in the Menu Item – Machine Customization |
|  |  | Batch View Main Screen should be divided into two views, Top and Bottom View |
|  |  | Top view will show all the available or created batches in Table/List format |
|  |  | Top Table/List of batch contain Batch number,Batch startdate,batch enddate,batch size and batch status |
|  |  | Top Table/List of batch have pagination which shows default 10 record per page and you can select page size from record per page dropdown. |
|  |  | Pagination bar placed in bottom of table which contain page number and previous and next button |
|  |  | Top Table/List of batch have search box placed in top right side of table which search record from list of batch by any properties which available in table |
|  |  | Top Table/List of batch have sorting properties that is up and down arrow for each column which sort record in ascending and descending order |
|  |  | Top Table/List Batch have one pdf download button from which user can download whole batch report in pdf format |
|  |  | Top Table/List Batch have Batch startdate and batchenddate date filter which will filter record as per selection |
|  |  | Bottom view will be a details form and list view such as audit log, alarm log, recipe log and user log |
|  |  | Details tab will show the all the properties of the selected batch in the top list view |
|  |  | First record of Batch should be automatically selected in the Top list view and details displayed in the bottom view by default when the Screen is selected for display |
|  |  | Details tab contain pdf button which download details of selected batch in pdf format |
|  |  | Audi Log tab contain table/List of Audit Log records of selected batch |
|  |  | Table/List of audit Log have pagination which shows default 10 record per page and you can select page size from record per page dropdown. |
|  |  | Pagination bar placed in bottom of Audit Log table which contain page number and previous and next button |
|  |  | Bottom Table/List of Audit Log have search box placed in top right side of table which search record from list of audit log by any properties which available in table |
|  |  | Bottom Table/List of Audit Log have sorting properties that is up and down arrow for each column which sort record in ascending and descending order |
|  |  | Bottom Table/List of Audit Log have one pdf download button from which user can download whole Audit Log for selected batch report in pdf format |
|  |  | Top Table/List of Audit Log have  date filter which will filter record as per selection |
|  |  | Alarm Log tab contain table/List of Alarm  Log records of selected batch |
|  |  | Table/List of Alarm Log have pagination which shows default 10 record per page and you can select page size from record per page dropdown. |
|  |  | Pagination bar placed in bottom of Alarm Log table which contain page number and previous and next button |
|  |  | Bottom Table/List of Alarm Log have search box placed in top right side of table which search record from list of Alarm log by any properties which available in table |
|  |  | Bottom Table/List of Alarm Log have sorting properties that is up and down arrow for each column which sort record in ascending and descending order |
|  |  | Bottom Table/List of Alarm Log have one pdf download button from which user can download whole Alarm Log for selected batch report in pdf format |
|  |  | Top Table/List of Alarm Log have  date filter which will filter record as per selection |
|  |  | Recipe Log tab contain table/List of Recipe Log records of selected batch |
|  |  | Table/List of Recipe Log have pagination which shows default 10 record per page and you can select page size from record per page dropdown. |
|  |  | Pagination bar placed in bottom of Recipe Log table which contain page number and previous and next button |
|  |  | Bottom Table/List of Recipe Log have search box placed in top right side of table which search record from list of recipe log by any properties which available in table |
|  |  | Bottom Table/List of Recipe Log have sorting properties that is up and down arrow for each column which sort record in ascending and descending order |
|  |  | Bottom Table/List of Recipe Log have one pdf download button from which user can download whole Recipe Log for selected batch report in pdf format |
|  |  | Top Table/List of Recipe Log have  date filter which will filter record as per selection |
|  |  | User Log tab contain table/List of User Log records of selected batch |
|  |  | Table/List of User Log have pagination which shows default 10 record per page and you can select page size from record per page dropdown. |
|  |  | Pagination bar placed in bottom of User Log table which contain page number and previous and next button |
|  |  | Bottom Table/List of User Log have search box placed in top right side of table which search record from list of User Log by any properties which available in table |
|  |  | Bottom Table/List of User Log have sorting properties that is up and down arrow for each column which sort record in ascending and descending order |
|  |  | Bottom Table/List of User Log have one pdf download button from which user can download whole User Log for selected batch report in pdf format |
|  |  | Top Table/List of User Log have  date filter which will filter record as per selection |
|  |  | Settings panel of dashboard screen contain Audit Log and Alarm Log tab |
|  |  | Audit Log tab and Alarm tab will visible after batch creation |
|  |  | Audit Log tab and Alarm tab will hide after batch end |
|  |  | Audit Log tab and Alarm tab will show live record related to running batch |
|  |  | Audi Log tab of settings panel contain table/List of Audit Log records of running batch |
|  |  | Table/List of audit Log in settings panel have pagination which shows default 10 record per page and you can select page size from record per page dropdown. |
|  |  | Pagination bar placed in bottom of Audit Log (in setting panel )table which contain page number and previous and next button |
|  |  | Bottom Table/List of Audit Log(in setting panel) have search box placed in top right side of table which search record from list of audit log by any properties which available in table |
|  |  | Bottom Table/List of Audit Log (in setting panel) have sorting properties that is up and down arrow for each column which sort record in ascending and descending order |
|  |  | Bottom Table/List of Audit Log (in setting panel) have one pdf download button from which user can download whole Audit Log (in setting panel) for running batch report in pdf format |
|  |  | Bottom Table/List of Audit Log (in setting panel) have  date filter which will filter record as per selection |
|  |  | Alarm Log tab of settings panel contain table/List of Alarm Log records of running batch |
|  |  | Table/List of Alarm Log in settings panel have pagination which shows default 10 record per page and you can select page size from record per page dropdown. |
|  |  | Pagination bar placed in bottom of Alarm Log (in setting panel )table which contain page number and previous and next button |
|  |  | Bottom Table/List of Alarm Log(in setting panel) have search box placed in top right side of table which search record from list of Alarm log by any properties which available in table |
|  |  | Bottom Table/List of Alarm Log (in setting panel) have sorting properties that is up and down arrow for each column which sort record in ascending and descending order |
|  |  | Bottom Table/List of Alarm Log (in setting panel) have one pdf download button from which user can download whole Alarm Log (in setting panel) for running batch report in pdf format |
|  |  | Bottom Table/List of Alarm Log (in setting panel) have  date filter which will filter record as per selection |

# 