CRITICAL PROBLEM-SOLVING PROCESS MANAGEMENT SYSTEM AND DATA ANALYSIS

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Abstract *:* Now days in many manufacturing industries business runs in multiple directions and reach the consumers. Since it doesn't not follow one process/direction of business maintaining the data is difficult .From the beginning to the end-process each industry follow their own way of production plan but planning to production and production to sales each follows different approaches to reach consumers .Since to overcome all these problems "Critical Problem Solving Management System with data analysis "is designed and developed. This gives the organizational operations according to their way of business and reduces the human burden in tracking the business.

Key words: Access Control Permission, QR Code login, Transparent data , Automatic process.

1.INTRODUCTION

Business main aim is to deliver quality products to end-user .After the products are delivered the team from organisation will note the highest product sold for which customer will be listed out .Based the consumable behaviour of the end user for the products , production team decides the additional qty and make a extra products. Business one more aim is to even make a profit of it and to minimise the wastage happening in their plant. In today's world from the small business to large business people develop their own way of business life cycle in their industries, therefore each department has different process and different cycle of work order. Bringing those different work processes and putting it in sequential way is critical job. To overcome these kind of critical operations the process management is developed. This process management system not only deals with the work order process but also combines each phase data and delivers it in the form of digital reports. Reports are very important to any kind of business. They give us the calculated figures. Since the whole data report is shown at a stretch, Head of the business need not to go to each report and view. Admin can login to system through QR CODE each report is structured well, easily any person can rectify the flow of their running process .Every person in the organisation work together for the better outcome. Each person from each department is linked internally with other department also. Particular phase department maintains their records for the better enhancement of cost management. Since in organisation people will be working all the way around the industry

they cannot come and see the system each time what is happening in the plant. Delivering each departments report in the digital for at their finger print in the mobile application helps them to understand the production plants cost management. Not only the production cost management but also the wastage happening for the items that is produced. This helps them to easily identify and manage the loss of wastages in the production for particular produced item. Each data is kept transparent form every department

2. LITERATURE SURVEY

Earlier system was designed with old version technologies each data was recorded in different files all together collecting information was difficult for the accounts department hence this use to take lot of time and drill down methodology was not present in those systems. People use to follow the tally system to calculate their data where in it was not giving accurate value instead it was showing negative value so accounts department use to calculate each value manually and find out the overall entries and figure out the mistakes or mismatch happened in system. Collecting data from different reports and summing up it altogether use to take lot of time. Once the production development has finished, it need to be updated to the head of the organisation, this process was shown manually in hand written graph structure on the marker board.. India follows the traditions way of seeing this kind of progress. To overcome this traditional flow we are giving the digital format of flow at a single stretch.

3. FLOW CHART
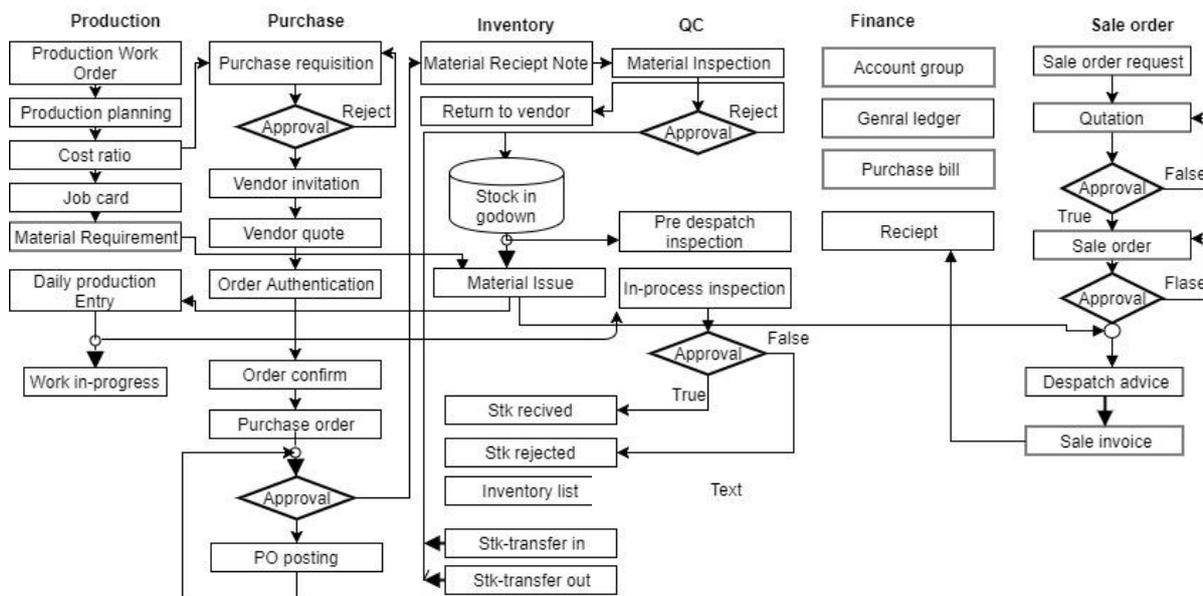
Figure3.1 Flow chart

4. SYSTEM ARCHITECTURE
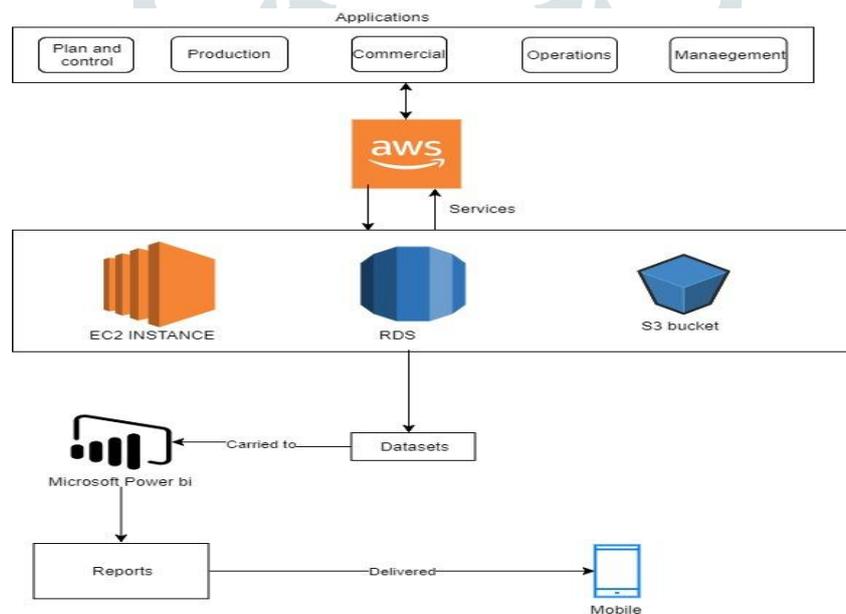
Figure 4.1 system architecture

5. IMPLEMENTATION

Main aim of the project is provide easy access for the user. End user should feel easy and comfortable in maintaining his organization's data. We give accurate calculation to them.
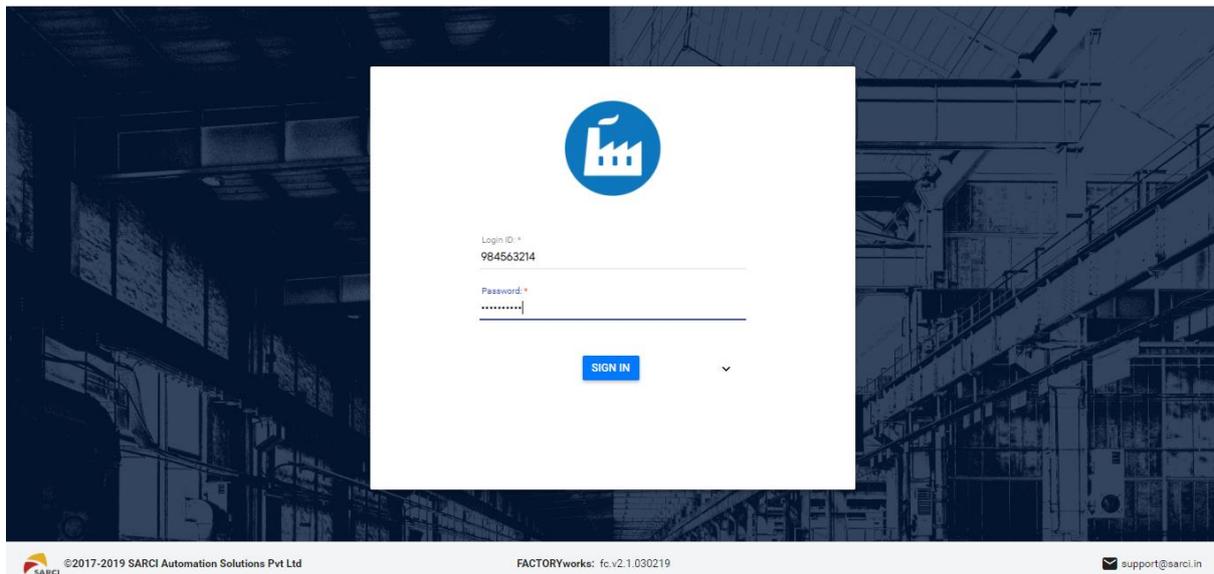
Figure 5.1 Login screen
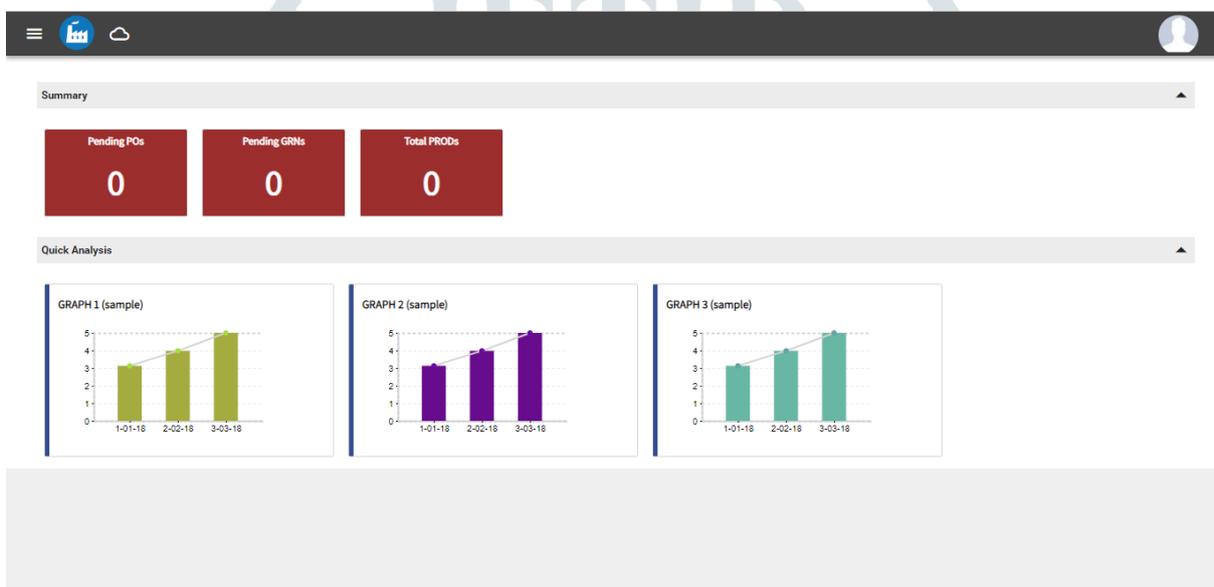
Figure 5.2 dashboard

6. PROBLEM DEFINITION

Organisation has different customers at different places. Customers locate at different places as a sub-branch also. Request of items are ordered from main branch and need to be delivered for different location, theoretically explaining is easy bringing that situation in easy interactive way for end-user is different in the view of software . Items that are cost to be kept tracked and updated for the warehouse inventory records .Items that are sold but doesn't have value should not be added or updated to the inventory records. Warehouse acts an main objective of the business, each transactions should be updated and calculated correctly but also should have the proper distributions transactions.

7. TEST CASES

TABLE 7.1

Test ID	1
Title	Form Login
Feature	Login to https:13.233.46.240
Objective	Confirm that proper user id and password fields access to the website as

	expected.
Test Data	Login information User id = 9980831926 Password = 9980831926
Test Actions	1. Click sign in button 2. It should sign in to the application 3. User should be able to access the web application
Expected Results	System displays the dashboard of application after successful login

Table 7.2

Test ID	2
Title	Create user with access control permission
Feature	Login to https:13.233.46.240
Objective	Confirm created user has given right module and proper access permission.
Test Data	1. Enter User details 2. Select the proper module 3. Choose the permission corresponding to module
Test Actions	1. Save the user creation form 2. Login to the created user id and password 3. Login should be successful 4.User should operate app based on the permission grander by admin
Expected Results	Successfully created user with access permission

Table 7.3

Test ID	3
Title	User access control permission check
Feature	Login to https.13.233.46.240
Objective	Access permission for users with respect to modules
Test Data	1.Create user and assign one module along with access permission 2.Assign the role for user corresponding to his module 3.Save user data.
Test Actions	1. After creation of user with permission. 2. Login to the created user's id with password 3. Login should be successful 4.User should only be able to see module which is assigned to him 5. If user is given only read access he should be only view should not be able to operate with data . 6. User with read mine access permission should only view his data.
Expected Results	Successfully verified access permission

8. CONCLUSION

System is designed with the high accessibility mode only registered people will be allowed to enter into the system. Admin can view all activities carried out in system .This project helps in time management. This gives a complete analysis of the organisation. Reports are put into figures and displayed for easy eye catching and made flexible.

9. FUTURE ENHANCEMENT

Each organisation has its own data and different format of business development. Each data sometime people need to enter manually or perform same operation multiple times in front of system which takes time. Automatic process helps industries in overcoming the human errors.

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