

Business Requirement Document (BRD)

X-Ray Inventory Management Software

10, February 2025

Version 1

1 Document Revisions

2 Approvals

Role	Name	Title	Approval	Date
Project Sponsor	NARESH			
Business Owner				
Project Manager				
System Architect				
Development Lead				
User Experience Lead				
Business Analyst				
Content Lead				

3 Introduction

3.1 Project Summary

3.1.1 Objectives

- The inventory management software should be capable to track real time stocks, ongoing orders, and current sales for X-Ray machines.
- The software should be able to show real time production of the X-Ray machines with parts and also able to compare the actual and current production of the target data.
- The software must be designed in a way that manages and track past and present financial transactions, profit calculation with tracking and maintain proper invoice for them.
- The app should maintain contact data of the respective sellers to order the raw materials and other necessary parts and generate leads for the company products.
- This application can be able to maintain data of fulfillment operations like estimated delivery date calculation, shipment tracking and pending orders in the shipping stage. The tracking should be done by connecting with respective courier partners.
- Effective dashboard should be displayed with key parameters like sales, production and profit tracking with time frame filter with simple interface.
- The Software should be able to generate reports to show the ongoing trends in the sales and production data, and able to make predictions for the future operations.

3.1.2 Background

Since in current market only few software that can capture complete picture of the Inventory management of the company. So the main focus is to capture the complete operations like production, sales, orders, transaction, fulfillment tracking and efficient future prediction algorithm for sales trends with user friendly interface.

3.1.3 Objectives

- The efficient stock management data will helps Industry to maintain sufficient stock levels to meet customer demand without any lag.
- Efficient warehouse operations are critical to fulfilling the objective of inventory control. This software helps manage business inventory categorization, location tracking, and remainders for the pending orders which will helps business to aware of the needs constantly.
- The effective dashboard with key parameters, multiple generated reports and future sales prediction algorithm will helps business to take effective decisions to make an impact in the market and improvement areas to make better growth of the Industry.
- The seller tab in the software will makes business to make re order for the raw material with minimum effect and contact the seller for replacement or any other reference in a user friendly manner.

3.2 Project Scope

3.2.1 In scope Functionality

- The Internal login page for the inventory management software with unique user id and password is in scope.
- Create a dashboard with key parameters like total sales, total value of stocks, profit chart and total orders value is in scope.
- Production tab with current and upcoming production data for X ray machines and actual versus current target tracking is in scope.
- Maintaining separate page for stocks of the X-Ray machines with parts and edit products is in scope.
- Create tab for orders and purchase materials with efficient past transaction tracking, value of the order and orders page with information gathering for customers and seller is in scope.
- Transaction tab with profit and revenue calculation of the sales is in scope.
- Tracking of shipment and data of orders which are in the fulfillment operation with separate page is in scope.
- Report generation for multiple parameters like sales, production, profit, revenue and future prediction of sales algorithm is in scope.

3.2.2 Out scope Functionality

- The Separate contacts tab to maintain the customers and seller portfolio for the inventory management is out scope.
- Inclusion of artificial intelligence for the future predictions of other parameters is out scope.
- Enhancement of reports page is outscope.
- Other software updates regarding X-Ray inventory management software will be out of scope.

3.3 System Perspective

3.3.1 Assumptions

- The dashboard in the software helps business to understand the overall picture of the industry instantly and it helps business to take timely decisions to improve the particular parameter.
- The inclusion of report and future prediction algorithm helps business to predict the future demands and helps business to take decisions for the industry growth. This will also give the input where the industry needs to focus to attain the maximum profit.
- The purchase material section in the software will helps to easily re order for the same products with the saved seller contacts by simple clicks.
- The shipment tracking of orders by co-ordination with shipment partners will helps to track the order efficiently and the company can able to tell the exact details of the customers. This will improve the trust and satisfaction rate of the customers.
- The simple and user friendly interface of the software will helps the user to understand and track the data without much complications.

3.3.2 Assumptions

- The Separate database to be created to store the data is many functions.
- New server to be created to complete the money transaction in a fraction of time. Also many other servers to be created for several operations for the software.
- The tracking system with co-ordination from shipping partners needs to be created. There will be some complications included for the exact tracking update with the location server.

3.3.3 Risks

- Cost approval for the new project is still pending from the client end.
- The project time line is very short. So if there is any lag in one process will affect the other tasks also.

3.3.4 Issues

Not Applicable

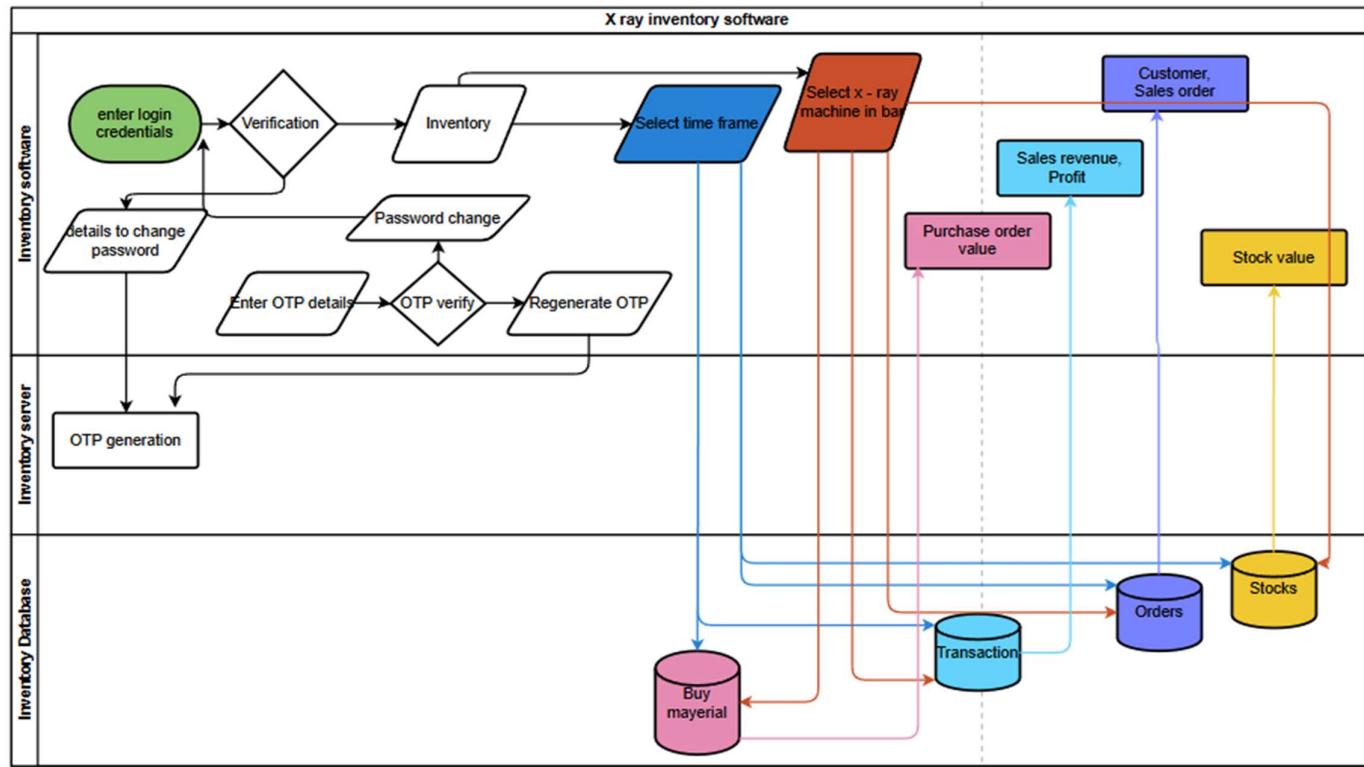
4 Business Process Overview

4.1 Current Business Process (As-Is)

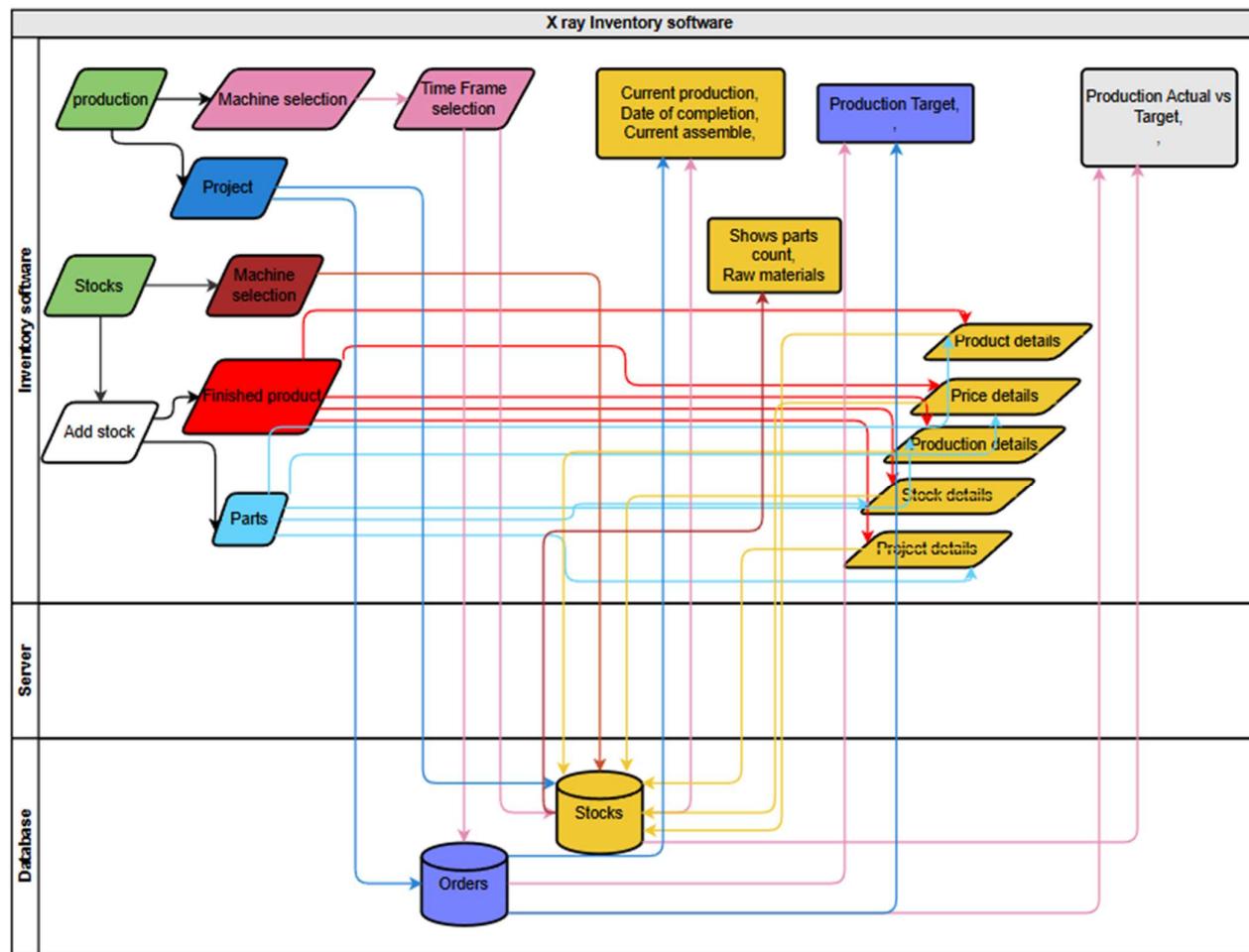
There is no current process. This is completely new process.

4.2 Proposed Business Process (To-Be)

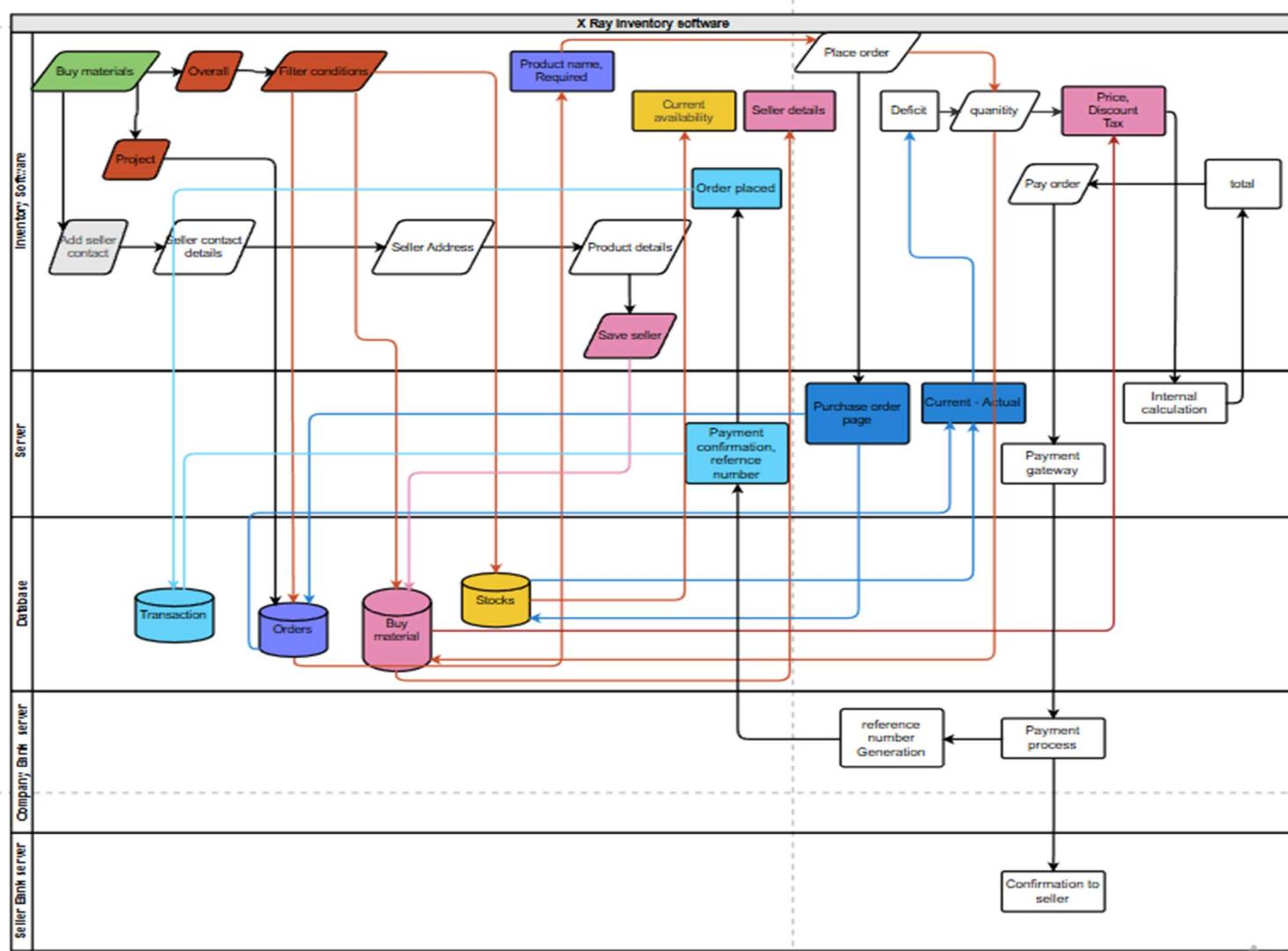
Login page and Dash board



Production and Stocks Tab



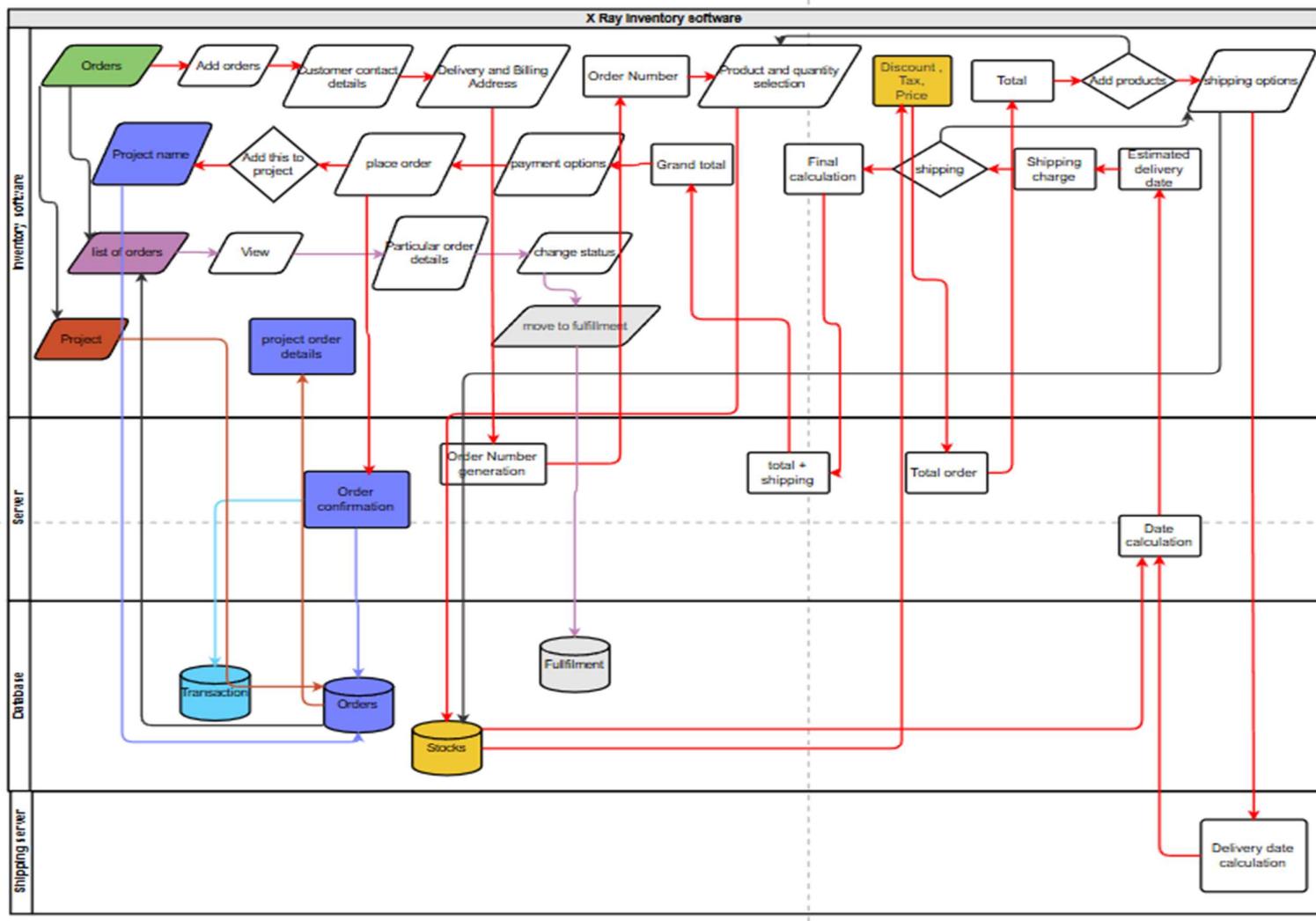
Buy materials Tab



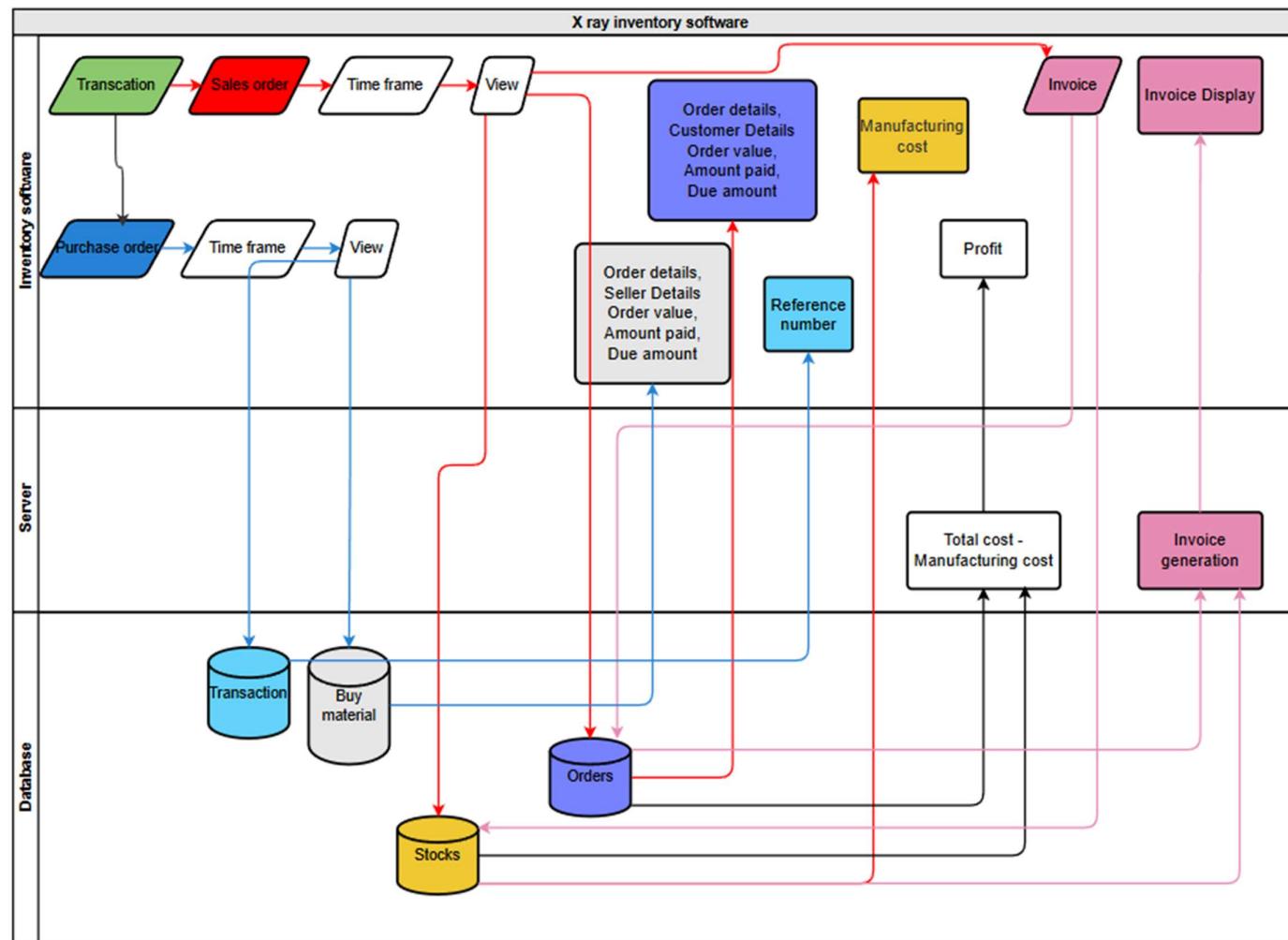
X – Ray Inventory Management

BRD-FRD

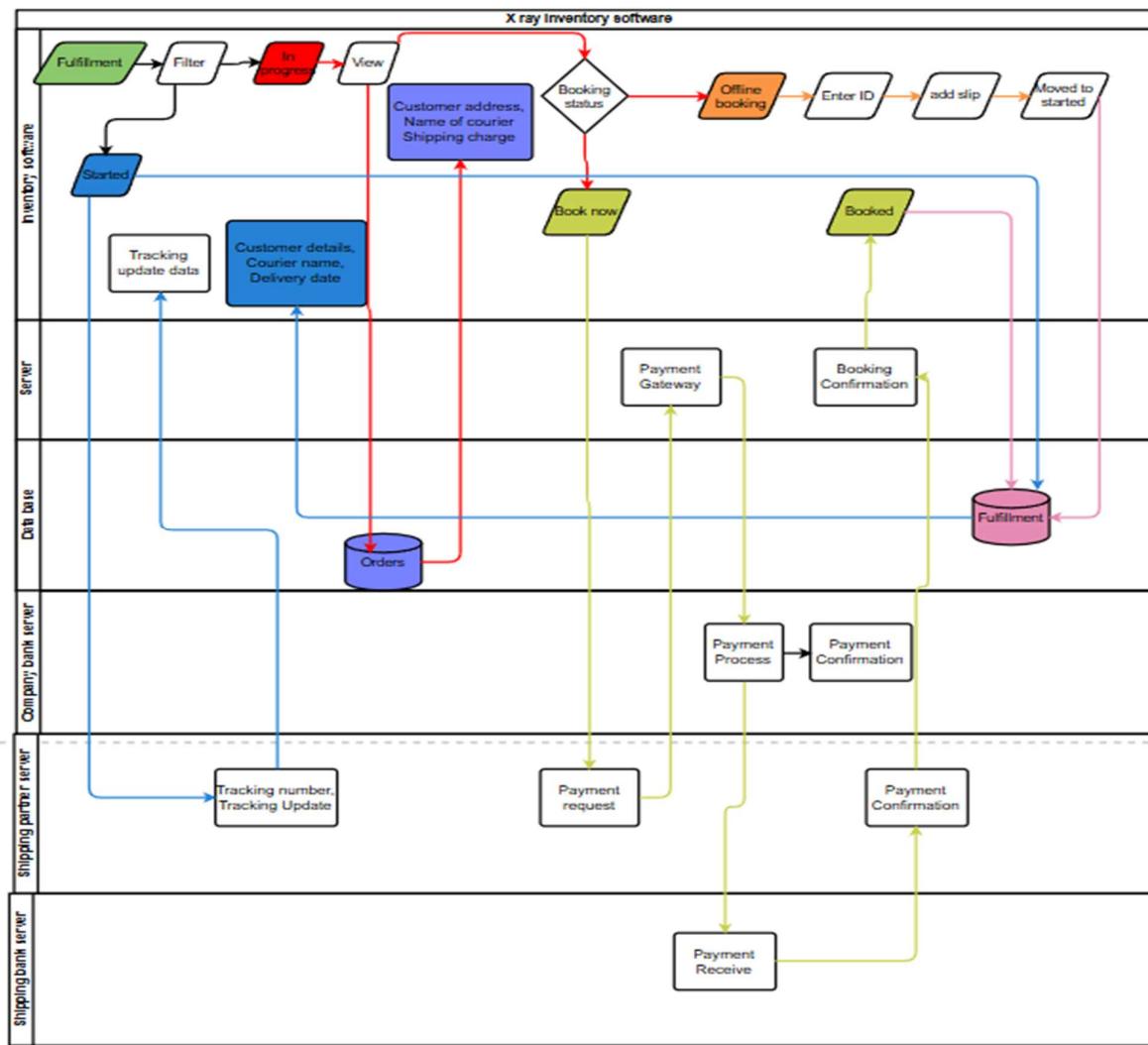
Orders Tab



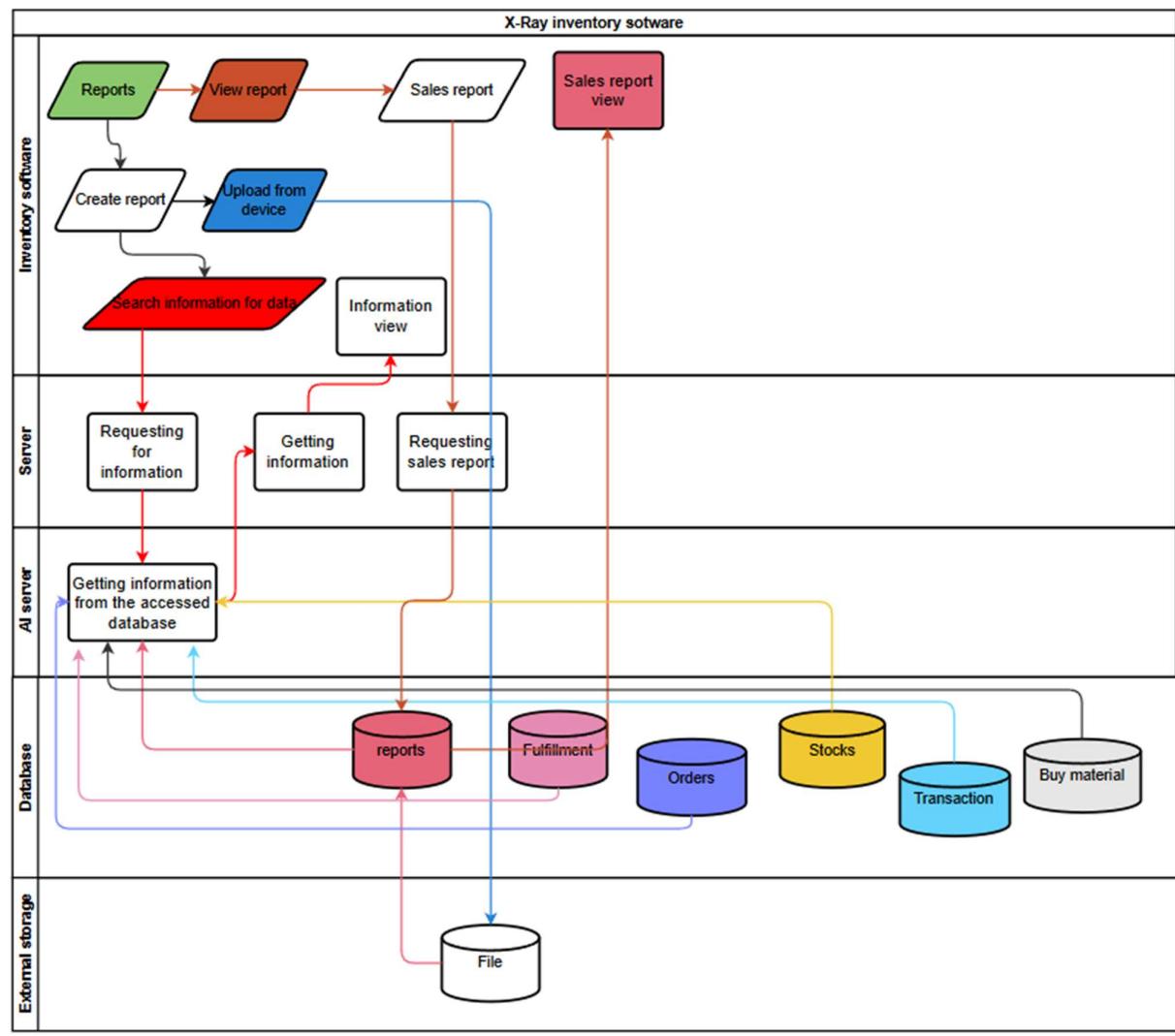
Transaction Tab



Fulfillment Tab



Reports Tab



5 Business Requirements

The requirements in this document are prioritized as follows:

Value	Rating	Description
1	Critical	This requirement is critical to the success of the project. The project will not be possible without this requirement. FR 001, FR 003, FR 004, FR 005, FR 006, FR 007, FR 008, FR 010, FR 011, FR 012, FR 013
2	High	This requirement is high priority, but the project can be implemented at a bare minimum without this requirement. FR 009, FR 014
3	Medium	This requirement is somewhat important, as it provides some value but the project can proceed without it.
4	Low	This is a low priority requirement, or a “nice to have” feature, if time and cost allow it. FR 002
5	Future	This requirement is out of scope for this project, and has been included here for a possible future release. FR 015

5.1 Business Requirements

BR-001 Internal Login for user:

- 1) Create new login page for user and should have an option to enter the login credentials and it must be verified user friendly.
- 2) Forgot password option should be included in the login page itself.
- 3) After user logged in successfully the screen should move to Home interface.

BR-002 Internal Interface after user logged in:

- 1) Once user logged in the page should contain Task bar at the top of the page. In the taskbar Industry details, User details and refresh option should be placed.
- 2) The inventory tab should be created at the top and once clicked the dashboard needs to be displayed. The dashboard should contain all the key parameters like sales data, order data and graphs with filter condition of time frame and Industry major products.

- 3) Separate Tabs to be created for the major functions below the inventory Tab (Production, Stocks, Orders, Buy material, Transaction, Fulfillment and Report).
The tabs needs to be aligned in vertical position. Separate data bases to be created for the major functions.

BR-003 Inventory Management Dashboard:

- 1) Once the user click the Inventory Tab the dashboard should be displayed with the key parameter indices. The dashboard should be dynamic.
- 2) The parameter indices include total revenue, total sales, stocks value with increment and decrement indicator.
- 3) The filter conditions should be created with time frame and Major products (Digital Radiography X-Ray, Conventional Radiography X-Ray and Dental X-Ray machine).
- 4) Also time and bar chars should be placed to track the data in user Friendly manner.

BR-004 Production tab:

- 1) The production tab should display all the major products with images.
- 2) The production and assemble data must be shown for the selected products with time as filter condition with upcoming data also. The actual and target production should be clearly mentioned for the X-Ray machines.
- 3) The production Goal attained data will be displayed in the same page as well.
- 4) The project Tab should be mentioned to view the production data related to the particular project completely.

BR-005 Stocks tab:

- 1) The tab should contains all the stocks data of the finished products, Parts and Accessories with X- X-Ray machines as filter condition.
- 2) Add a product option should be included to add the new products with enter option to capture the product details and price details with images of the product.
- 3) The Add a product option must be able to edit the existing product details to update the stock and add the project for the production of the machines.
- 4) The manufacturing cost also should be mentioned in the product addition option.

BR-006 Buy materials tab:

- 1) In this tab the options to view the overall, project and add seller contact should be created as major functions.

- 2) Once user clicked the buy material option by default all the products should be displayed with availability and required Quantity in table in row wise format. The option to replace and place order must be presented for all the products displayed. The filter condition for products should be placed to search for particular product. In project option the products related to particular project should be displayed.
- 3) The place order page should contains the option to capture the product quantity, price and other details. For the payment the server should be Co-ordinate with payment bank for the Industry to complete the transaction and place the order to the seller.
- 4) In the replace tab the option to replace the particular product with other product from the same seller should be placed.
- 5) The add seller contact option should contains the option to enter the seller contact details and product details available from the seller.

BR-007 Orders tab:

- 1) In orders tab default, project and add orders options should be placed.
- 2) In the add orders page the option to enter the customer details, address , order details, shipping details and payment options (cash, cheque, bank transfer) should be placed. Unique order number should be generated for each order separately.The estimated delivery date calculation should be included. In this page the options to add the particular order to project should be included.
- 3) In the main interface of the orders tab all the orders should be displayed with order details, Delivery date and the days remaining with filter as (completed, in progress, not started) with view button.
- 4) Once user clicks the view button in the order tab, the complete order details should be displayed with move to next process option (shipping).

BR-008 Transactions tab:

- 1) In the transactions tab the main options should be to view sales order and purchase order transaction with time frame filter condition. In the main page at the tab, the data must be arranged in a table wise format.
- 2) The sales order should contains the transaction history of orders from the customers. It must display order details, amount details, profit and status.
- 3) In the purchase order option the transaction history of the company orders should be displayed with seller order details, amount details and status.
- 4) In the view option for both orders, the detailed data should be displayed including reference number and invoice (for the sales order).

BR-009 Fulfillment tab:

- 1) In the fulfilment tab the search options should be included to search the details in the main page.
- 2) The main page at the tab should display the order delivery date, day remaining and status in the status update (In progress, started) with view option.

- 3) If the status is in progress then the option to pay the shipping charge and book for the package should be included with options to capture the offline bookings.
- 4) In the started status page the options to view the tracking update and complete order details.

BR-010 Reports tab:

- 1) Reports page should be created with create report and view report options.
- 2) In the create reports page existing available reports should be displayed.
- 3) In the create report page the option to add the external file and involvement of Artificial Intelligence to search data and create reports must be included.

5.2 Functional Requirements

FR-001 Create a login page for user:

- 1) Create a new login interface in the Inventory management software for the user.
- 2) It should contain a circle shaped company logo of Diameter 8 cm at the top.
- 3) Below the logo that there should be a Text box field where the user can able to enter the “Login id “given by the respective Industry. The box should accommodate both alphabetic as well as numerals.
- 4) User Icon should be placed at the corner of the Login id text box.
- 5) Then the separate Text box field should be created to enter the “Password” details and it should be encrypted. It should accept Alpha-Numeric value and special characters as well.
- 6) Below that login button should be included. All the above details are mentioned in Fig 1.1

X- Ray Inventory Login

User Name

Password

Login

Fig 1.1

- 7) Once user click the login button after entered all the credentials internal verification should be happened with the database. If the given details are correct then it should move to the next page. If the details are incorrect then error message should be displayed below the password text box like in Fig 1.2

Password

User name or password is incorrect. please try again !

Login

Fig 1.2

FR-002 Forgot password option for user:

- 1) Create forgot password button next to login button.
- 2) When user clicks forgot password option it should move to next page to reset the password. Fig 2.1

A screenshot of a web page showing a password input field with masked text and a clear icon. Below the input field is an error message: "User name or password is incorrect. please try again !". At the bottom are two buttons: "Login" and "Forgot password".

Fig 2.1

- 3) In forgot password page there should be a text box to enter the User name and work email. No need to enter the both. Anyone can be enough.
- 4) Post that “Generate OTP” button should be placed. For that new OTP server should be created and it should share the OTP directly to work email. The OTP should have 6 digit limit and it must be numeric only. The validation time should be 24 hours from the time of generation.
- 5) Next “Enter OTP” text box option should be included to catch the OTP details. If the details are correct then it should verify with server and show message as “OTP verified successfully” then move to change password. Fig 2.2

A screenshot of a web page for generating an OTP. It has fields for "Employee ID" and "Work Email id", and a "Generate OTP" button. Below the button is a green success message: "OTP shared successfully! check your mail id." Then, it asks for the "OTP received in registered mail id" in a text input field, followed by a "Verify OTP" button. A final green message at the bottom says: "OTP Verified successfully! Kindly set the new password."

Fig 2.2

- 6) If it is wrong then error message should be display “OTP is invalid. Please enter the correct OTP or generate again” Fig 2.3

A screenshot of a web page showing an error message: "OTP entered is wrong. please enter the correct OTP or regenerate" next to a "Regenerate OTP" button.

Fig 2.3

- 7) In the new password text box field next to that one icon should be placed. When user should click the icon it could contains all the password acceptance details. New password must start with capital letter and minimum of 8 character limit. All special characters should be included and all Alpha-Numeric should be included.
- 8) Post that Confirm password text box should be created. The field should be encrypted.
- 9) Then change password button will be included. If the details are same in the 2 text boxes then “password changed successfully! Go to login” message should be displayed. For that back to login button should be included below. Fig 2.4

The form consists of two text input fields: 'New password' and 'Confirm New password'. To the right of each input field is a small icon resembling a magnifying glass with a minus sign, likely for clearing the input. Below the fields is a 'Change password' button. At the bottom of the form, there is a green success message: 'Password verified Successfully! Go back to login' followed by a red 'Back to login >' button.

Fig 2.4

- 10) If the details are incorrect error message must be shown. “Password doesn’t matches with the above field. Please Re-enter the password” fig 2.5

The form structure is identical to Fig 2.4, with 'New password' and 'Confirm New password' fields and a 'Change password' button. However, the message at the bottom is now a red error message: 'Password doesn't matches with the above field. please reenter the password'.

Fig 2.5

FR-003 Create Internal interface after user logged in:

- 1) Create a Bar view at the top of the window. The company logo should be placed inside the bar at the right corner of the tab and it fit to the size.
- 2) Then the site name should be displayed with site icon. The site name should be the Industry location name.
- 3) Then setting button should be included to change the basic settings of the interface.
- 4) Then logout button should be placed next to settings to logout from the current login session.
- 5) At the Right most corner of the tab user name should be displayed with user icon. This should be captured automatically with verification of the identity provided at the time of login with the company database.
- 6) Then refresh button should be placed next to settings to refresh the page if any occurs. Create a server according to that.
- 7) On the left most corner of the window below the logo, the dashboard for inventory tab should be created.

- 8) Below the inventory dashboard option, the separate tabs for the main functions (production, stocks, buy materials, orders, transaction, fulfillment and reports) should be placed one by one vertically.
- 9) At the right corner, just below the tab there should be separate add on button should be placed. When user click this tab it should create a new home window where user must be able to perform other functions mentioned in the above mentioned main tabs. All the details should be same as mentioned in Fig 3.



Fig 3

FR-004 Dashboard creation for the X-Ray inventory:

- 1) Create a dynamic dashboard with key parameter values. Separate boxes should be created inside the dashboard to show the each values.
- 2) The values should be displayed automatically once clicked the inventory tab. The values must be fetch from the respective databases.
- 3) Inside each of the boxes increment and decrement indicator should be placed. If the value is increased from the previous week, day or month anything the increment indicator with triangle in green color should be shown. If the value is reduced from the previous instance the reverse triangle with red color indicator should be shown. The percentage increment and decrement should also be mentioned. Fig 4.1 and Fig 4.2.

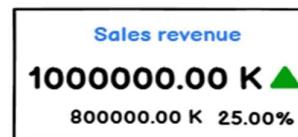


Fig 4.1

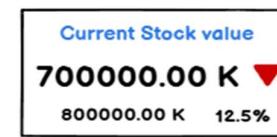


Fig 4.2

- 4) The previous instance value should be displayed in below the main value of the current selection.
- 5) In the first row of the dashboard sales revenue, total customers, current stock value and sales order value should be aligned.
- 6) In the second row purchased order value, X-Ray machine selection bar and profit line chart should be arranged.
- 7) In the X-Ray machine selection bar the main machines Digital radiography, Conventional radiography and Dental X-Ray machine must be included. If the user selects any one of the options the values in the other boxes should be changed. The information should be displayed in a fraction of time. The bar should be placed in left to right position and values of the machine count placed outside the bar chart in right side.
- 8) Time frame and X-ray machine selection are the filter options available in the whole dashboard. If the user selects any machine and particular time frame then the values of the other boxed must be display only those values with past instance (week, month or day).
- 9) In the profit line chart x-axis refers to the week, month, year or day based on the time frame selection. y-axis refers to the profit values in thousands. The line inside the chart should be display up and down for the values increased or decreased compare to previous values in the same graph with arrow mark. If we select the particular arrow mark the value should be pop up. Fig 4.3

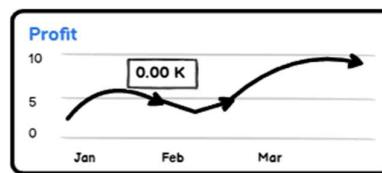


Fig 4.3

- 10) In the last row of the dashboard time frame filter, parts orders value, New customer and delivered order values should be displayed.

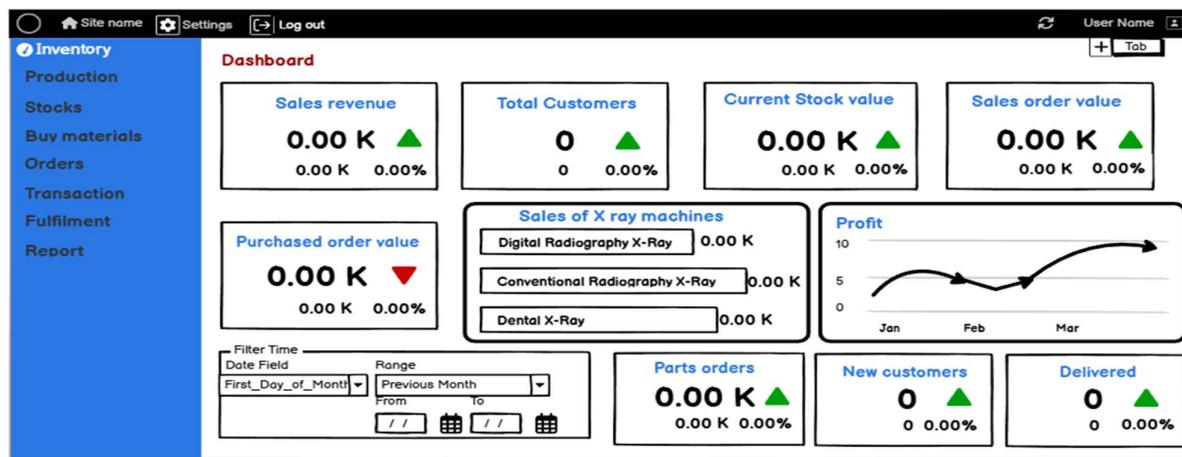


Fig 4.4

11) In the time frame filter data options to select the particular date or month should be placed at the top. User can able to select both options as well. Below that extended time frame range with day, year and month should be included. The overall dashboard view is mentioned in Fig 4.4.

FR-005 Production tab creation:

- 1) Once user clicked the production tab the details should be displayed under the title “products”.
- 2) The images should be displayed inside the rectangular boxes for the Digital radiography, Conventional radiography and Dental X-Ray machines. If the user clicks any of the three products then the value should be shown for the particular product only in the below.
- 3) Below that ongoing production and expected date of completion of machine unites with time frame filter should be placed. If user clicks the particular time frame then the units should be displayed for the expected date of completion.
- 4) Then the production target with week and month buttons should be placed. If the user click the week button then the current production and actual production unit value must be shown.
- 5) Below that current unit that are completed production and in the assemble section should be mentioned
- 6) At the bottom of the tab create buttons for overall and projects. The default selection is overall.
- 7) On the right side of the tab, production history with rectangular box must be placed. Create a drop down for month and week and for that selection production actual and target should be placed. User can able to select multiple months and multiple weeks or particular month and particular week. If the actual production is less than target, then the values should be displayed in red color. If the actual production is more or equal to the target, then the values should be displayed in green color. Below that production goal met % for month and week should be placed.

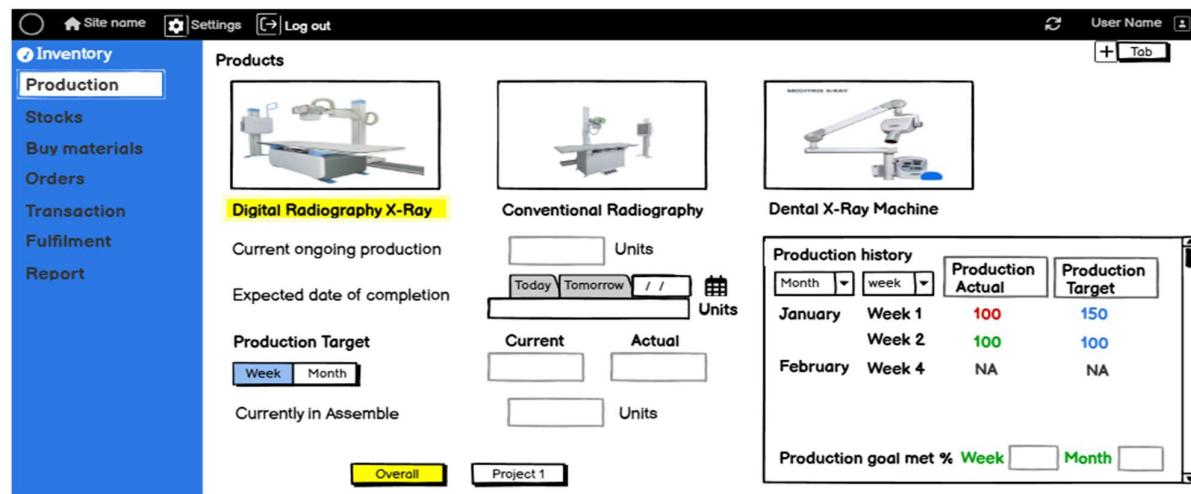


Fig 5.1

- 8) The filer applied in the box should change the values of the current box only. If there is no selection for month and week then the values should be displayed according to filter in outside the box. Must include the vertical slider for the production history box. Fig 5.1.
- 9) If the user choose the particular project at the lower bottom then the values should be displayed related to the particular project only. The project includes machine as well as parts. For the project deadline and remaining days should be displayed additionally. At the bottom of the page overall button should be placed. If the user clicks the overall button then the page should move to the main tab of production. If there is no history of project previously then in production history box display NA for the values. Fig 5.2

The screenshot shows the 'Production' tab selected in the sidebar. The main content area displays a project titled 'Digital Radiography X-Ray'. It lists three part names, each with a crossed-out placeholder box. Below this, it shows 'Current ongoing production' with a unit input field and a date selector set to 'January, Week 3'. It also shows 'Expected date of completion' with a date selector set to 'January, Week 3'. Under 'Production Target', there are 'Week' and 'Month' buttons. A 'Currently in Assemble' section shows a deadline input field and a date selector. To the right, a 'Production history' section shows 'Production Actual' and 'Production Target' both set to 'NA'. At the bottom, a 'Production goal met %' section also shows 'NA'.

Fig 5.2

- 10) The remaining days should be calculated from current date – project estimated completion date.
- 11) The values should be fetched and displayed from the respective databases. Current ongoing production, expected date of completion, current assemble, production target current (stocks database). Production target current (orders and stocks database).

FR-006 Stocks tab main page creation:

- 1) Once user clicked the Stocks tab from the list of main tabs then the main three X-Ray machines with number of units in stock should be displayed with X-ray machine title under the finished products headline. On the right corner of the page create a button for the add product.

- 2) Below that the dropdown should be created to select a machine to view the sub parts of the particular X-Ray machine.
- 3) The units of X-ray tube, tube support stand, table, x-ray console, control unit, scanner, transformer, generator, collimator, scanner, printer, x-ray films and raw materials are the main parts with sub part of the particular part will be shown below the parts units.
- 4) The units of the particular parts should be decided by the industry management. The values should be fetched from the stocks database. Fig 6.1, 6.2 and 6.3
- 5) The main parts should be displayed in blue color with underlined texture. Create a vertical slider for the page to scroll down till the bottom the page where data exists. The parts should be displayed related to the selected machine only. Because parts can be different for x-ray machines.

The screenshot shows a web-based inventory management system for X-Ray machines. The left sidebar has a blue header with 'Inventory' and a red 'Stocks' button highlighted. The main content area is divided into sections for 'Finished Products' and 'Parts'.

Finished Products:

- X - Ray Machine
 - Conventional Radiography machine: [] Units
 - Digital Radiography Machine: [] Units

Parts:

Select a machine: conventional Radiography machine

<u>X - Ray tube</u> : [] Units	Diodes: [] Qty	Molybdenum cup: [] Qty	Induction Motor: [] Qty
Lead glass: [] Sheet	Transformer oil: [] Litre		
<u>Tube support stand</u> : [] Units	Cross Arm stand: [] Qty	Vertical column: [] Qty	Ceiling rail: [] Qty
<u>Floor mount support</u> : [] Units	Floor rail: [] Qty	Wheels: [] Qty	

Fig 6.1

The screenshot shows a software interface for managing X-Ray inventory. On the left, a vertical sidebar menu includes 'Inventory', 'Production', 'Stocks' (which is selected and highlighted in blue), 'Buy materials', 'Orders', 'Transaction', 'Fulfilment', and 'Report'. The main area displays current stock levels for various X-Ray components:

Item	Quantity	Unit
Ceiling Tube support	<input type="text"/>	Units
Telescopic Arm	<input type="text"/> Qty	Transverse Rail <input type="text"/> Qty
		Conveyer Rail <input type="text"/> Qty
Table	<input type="text"/> Units	
Fixed position	<input type="text"/> Qty	
Horizontal Floating	<input type="text"/> Qty	
Tilt support	<input type="text"/> Qty	
X Ray console	<input type="text"/> Units	Transformer <input type="text"/> Units Generator <input type="text"/> Units
Control Unit	<input type="text"/> Units	Collimator <input type="text"/> Units
Scanner	<input type="text"/> Units	
cassette	<input type="text"/> Qty	
Printer	<input type="text"/> Units	

Fig 6.2

This screenshot shows the same software interface as Fig 6.2, but with different categories of items listed.

Category	Item	Quantity	Unit
X- Ray Film	(6.5 * 8.5) inches	<input type="text"/> Sheet	(8 * 10) inches <input type="text"/> Sheet
	(14 * 14) inches	<input type="text"/> Sheet	(14 * 17) inches <input type="text"/> Sheet
	(10 * 12) inches	<input type="text"/> Sheet	
Raw Materials	Tungsten	<input type="text"/> kg	Molybdenum <input type="text"/> kg Steel <input type="text"/> kg
	Carbon fiber	<input type="text"/> kg	Copper coil <input type="text"/> kg Copper wire <input type="text"/> kg
	Silver Halide	<input type="text"/> kg	Gelatin <input type="text"/> kg Iron <input type="text"/> kg

Fig 6.3

FR-007 Add products page in the stocks tab:

- 1) Once user clicked the add products in the stocks tab new page should be created from the server to capture the details of the products and the stocks.
- 2) Then the options to select the existing x-ray machine and existing parts should be created. Post that add new finished product or parts should be included. If the user selects the existing one the already saved details should be viewed. User can edit them. If user click add new product then the user have the options to product details from scratch.
- 3) Create separate text boxes for product name, composition, components and description. The text boxes must accept both alpha-numeric values.
- 4) On the right corner of the page the options to add images of the product should be placed. Once user clicks the add image box should be open to add the image from the storage. Once added the images are shown one by one. Fig 7.1.

**Fig 7.1**

- 5) Post that the price details text box should be included. Dropdown must be included to select the currency unit. This should be added from the database. This field should accept numeric values only. Create the separate text box to enter the manufacturing cost. If the user tried to add the values other than numeric then error message shown as "This field accepts numeric values only". Fig 7.2

Price details	<input type="text" value="A18"/> <input type="button" value="INR ▾"/> <input type="button" value="+"/> Add price This field accepts numeric values only!
---------------	--

Fig 7.2

- 6) Then the options to enter the warranty details text box should be placed. It must accept both alpha numeric values. Post that create a separate text box to enter the current stock value with dropdown to select the units.
- 7) Create the auto capture text box for the value of current stock. This value should be calculated by multiplying price details and current stock automatically. Create algorithm according to that. Fig 7.3

Price details	<input type="text" value="50000"/> <input type="button" value="INR ▾"/> <input type="button" value="+"/> Add price
Warranty details	<input type="text"/>
Current stock	<input type="text" value="50"/> <input type="button" value="Unit ▾"/>
Value of current stock	<input type="text" value="2500000"/> <input type="button" value="INR"/>

Fig 7.3

- 8) Post that the option to enter the production details for the particular product should be placed. In that the option to select the time frame and text box to add the number of units must be included. This field should also accept numeric only. If the user tried to add the values other than numeric then error message shown as same in Fig 7.2. In addition to that user can add this as new project or select for existing product drop down should be placed. User can add multiple production data for different time frame by add production option.
- 9) Then the option to capture the current assemble data text box should be created. This field should also accept only numeric value. If the user tried to add the values other than numeric then error message shown as same in Fig 7.2
- 10) Then at last the save button should be placed. Once user clicks the save button the message should be popped as “Details saved Successfully!”. All the data must be stored to the stocks database. Fig 7.4



Fig 7.4

- 11) If the user selects finished products option then the option to add part section should be included and in the add parts section add sub part should be included. This details are same as mentioned in the above. This option is only when user clicks add finished products or selection for edit in machine dropdown. For parts this should be shown as add sub part. This will show the hierarchy level of data as shown in Fig 6.1 to Fig 6.3 for the x-ray machines. Fig 7.5

A screenshot of a user interface for managing assembly parts. On the left, there's a section labeled 'Currently in assemble' with two buttons: '+ Add assemble' and '+ Add parts for machine'. To the right of this is a 'unit' dropdown menu and a 'Select project' dropdown menu. At the bottom right is a 'save' button.

Fig 7.5

- 12) Create a vertical slider for the page to scroll down. The overall layout is shown in Fig 7.6 and Fig 7.7.

The screenshot shows the 'Add a product' form for 'Stocks'. The left sidebar has 'Stocks' selected. The main area has the title 'Add a product' and fields for 'Product Name', 'composition', 'Components', 'Description', 'Price details' (with dropdowns for INR and Add price), 'Manufacturing cost' (INR), 'Warranty details', 'Current stock' (Unit dropdown), and 'Value of current stock' (INR). There are also 'Add Image' and 'Select a part' dropdowns.

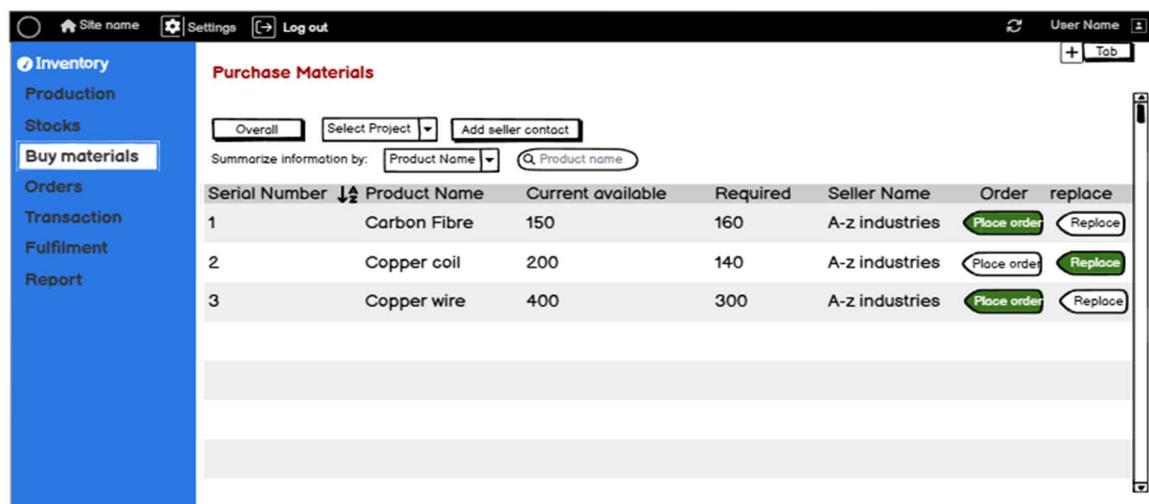
Fig 7.6

The screenshot shows the 'Add a product' form for 'Production'. The left sidebar has 'Production' selected. The main area has sections for 'Production' (with Start Date, End Date, Number of unit production, and Add as project dropdown), 'Currently In assemble' (unit dropdown and Select project dropdown), and a 'save' button.

Fig 7.7

FR-008 Buy materials tab main page creation:

- 1) Once user clicked the buy materials option at the top the buttons should be placed for overall and add seller contact. Also create a dropdown for the project selection. The default one is overall.
- 2) Below that create a dropdown and search bar to select a products. The results should be come from stocks database.
- 3) The data of serial name, product name, Current availability, required (stock database), seller name (buy material database), order and replace with buttons for both these components should be created. All these data must be shown in tabular format with rows and columns.
- 4) Create a vertical slide bar to scroll the page. If the user selects the particular project or product then the values should be display according to that selection only. By default the values are shown. Also include the sort option for the product name in the table. Fig 8.1



The screenshot shows a web-based inventory management system. On the left is a sidebar with a blue background containing navigation links: Site name, Settings, Log out, Inventory, Production, Stocks, **Buy materials** (which is highlighted in white), Orders, Transaction, Fulfilment, and Report. The main content area has a white background and a title 'Purchase Materials' in red. At the top of the main area are three buttons: 'Overall', 'Select Project', and 'Add seller contact'. Below these are two dropdown menus: 'Summarize information by: Product Name' and a search bar with placeholder 'Product name'. A table follows, with the first column header 'Serial Number' having a downward arrow icon indicating it's sortable. The table contains three rows of data:

Serial Number	Product Name	Current available	Required	Seller Name	Order	replace
1	Carbon Fibre	150	160	A-z industries	Place order	Replace
2	Copper coil	200	140	A-z industries	Place order	Replace
3	Copper wire	400	300	A-z industries	Place order	Replace

Fig 8.1

- 5) If user selects the place order option for the particular product, then the new page should be opened from the server.
- 6) In the page the selected product should be shown. Then the deficit should be auto calculated and added in the text box (Deficit = Actual – current).
- 7) Post that the option to enter the quantity text box should be placed. This should accepts numeric value only. Post that the auto capture text boxes for price, discount and tax should be placed. This date must be auto capture from the buy materials data base for the selected products.

- 8) Then the amount should be auto calculated and captured in the text box automatically. Then right to that remove button should be created. If the user clicks remove then the selected product will be deleted. User needs to click the add products in the bottom of the page to go to main page and select products again.
- 9) Then create automatic text box to capture the seller contact details and address automatically.
- 10) Then below that the sub total should be displayed from the calculated amount above and text box to enter the shipping charge should be created. This field should accept numeric data only. If the user enters the values other than numeric then error message should be shown as in Fig 7.2.
- 11) Then the grand total should be calculated from the addition of subtotal and shipping charge automatically. Create algorithm according to that.
- 12) If the user clicks the add product option then it should back to the main page in the buy materials and user needs to select the product again to back to this page. User must needs to add the multiple products in the page. For the user to pay for particular seller Group by seller button should be created. Once clicked the button, the algorithm should merge the bills for the selected products from the same seller and calculate the total amount. Fig 8.2

The screenshot shows a 'Purchase Order' form. On the left is a sidebar with 'Inventory', 'Production', 'Stocks', 'Buy materials' (selected), 'Orders', 'Transaction', 'Fulfilment', and 'Report'. The main area has a header 'Purchase Order' with tabs for '+ Tab' and 'Remove'. It contains fields for 'Product Name', 'Deficit', 'Quantity', 'Price', 'Discount %', 'Tax %', and 'Amount'. Below these are fields for 'Name of the product', 'Seller Address', 'Seller mail', 'Contact number', and buttons for 'Group by seller', 'Pay order', and 'Add Products'. To the right are displays for 'Sub Total', 'Shipping charge', and 'Grand Total'.

Fig 8.2

- 13) Post that pay order button should be created. Once user clicked the pay order button the page should redirect to the payment gateway of the respective industry and the server should coordinate with industry bank server to complete the payment. Once the transaction completed new page should be showed from the server with order and payment confirmation.
- 14) On the payment confirmation page the button component to download and back to purchase order should be created. If the user clicks the download button then the copy should be downloaded and stored to internal. If the user clicks the back option then the page should close and it should be redirected to the purchase order page. Fig 8.3

The screenshot shows a 'Payment confirmation' page. On the left is a sidebar menu with 'Buy materials' selected. The main area displays the following information:

- Product Name:** Name of the product
- Quantity:** 0
- Price per quantity:** 0.00 INR
- Discount:** 0.00 %
- Tax:** 0.00 %
- Shipping charge:** 0.00 INR
- Grand total:** 0.00 INR
- Seller Address:** Block num, Area name, State , City, State, Country, Pincode

At the bottom, a message says 'Amount paid successfully !' with 'Download' and 'Back to purchase order' buttons.

Fig 8.3

- 15) If the user clicks the replace option in the main page replace order page should be opened.
- 16) In this page the product name, excess quantity, price should be auto captured from the database. Create a quantity text box that must accept the numerical value to enter the quantity. The detection % text box should be placed where user can needs to enter the values manually by discussing the percentage. It must accepts the decimal value up to two digits after point. Then the exchange value auto capture text box should calculate the value by multiplying price, detection % and quantity.
- 17) Post that replace with products from same seller drop down should be created. This shows the products which matches the name of the seller only. Then user needs to select the product any pay for the order. The steps are same as in 6,7, 8 and 9th points. The total amount calculation should be automatically calculated and shown. Create algorithm according to that. Fig 8.4.

The screenshot shows a 'Replace Order' page. On the left is a sidebar menu with 'Buy materials' selected. The main area has two sections:

- Replace Order:**

Product Name	Excess	Quantity	Price	detuction if any %	Exchange Value
Name of product	0	0	0.00	0.00	0.00

Replace with: Select product from seller
- Product Details:**

Product Name	Deficit	Quantity	Price	Discount	Tax	Amount
Name of product	0	0	0.00	0.00	0.00	0.00

Seller Address: Block num, Area name, State , City, State, Country, Pincode

Payment Summary:

Sub Total	0.00
Exchange value	-0.00
Shipping charge	0.00
Grand Total	0.00

Buttons: Add Products, Pay order

Fig 8.4

- 18) In the Payment confirmation page the exchange value should be mentioned additionally for the replace order option. Fig 8.5

Shipping charge	0.00 INR	Exchange value	0.00 INR
Grand total	0.00 INR		
Seller Address	Block num, Area name, State , City, State, Country, Pincode		
Amount paid successfully !			
		Download	Back to purchase order

Fig 8.5

FR-009 Create seller contact page for buy material tab:

- 1) Once user clicked the add seller page, the page must be opened from server to enter the seller contact details.
- 2) Create a separate text boxes for the name of the seller and email. The name box should accept alphabetic values only. The email text box should accept both alpha-numeric value. If the user enters anything other than numeric in the name of seller box then error message should be shown. Fig 9.1.

Name of the Seller	<input type="text"/>	This field accepts alphabetic only !
Email	<input type="text"/>	
Mobile Number	<input type="text"/> <small>Code</small> <input type="button" value="▼"/>	This field accepts numeric only !

Fig 9.1

- 3) Post that the seller address details should be created. Create a separate text boxes for block num, area/street, town/city, state and pin code. The block num and pin code text boxes should accept numeric only. All the other text boxes should accept alphabetic only except area/street it should accept both alpha numeric values. If the user enters anything other than mentioned in the text boxes then error message should be shown. Fig 9.2

Block no	<input type="text"/>	Area/Street	<input type="text"/>	Town/ City	<input type="text"/>
This field accepts alphabetic only !			This field accepts alphabetic only !		

Fig 9.2

- 4) Then the options to enter the product name and product description text boxes should be created. This should accept both alpha-numeric values. On the right side options to add images of the product should be placed. Once user clicks the add image box should be open to add the image from the storage. Once added the images are shown one by one. Fig 7.1.
- 5) Then the product price text box should be placed with options to select the unit drop down. Post that separate text boxes to enter the tax % and discount % should be created. All these text boxes should accept only numeric values. Add product button should be placed to save more products from the seller.
- 6) Radio buttons for yes or no to select the replace option must be placed.

- 7) The overall layout is shown in Fig 9.3.

Add Seller Details

Name of the Seller: [Text Input]

Email: [Text Input]

Mobile Number: [Text Input] Code

Seller Address

Block no: [Text Input] Area/Street: [Text Input] Town/ City: [Text Input]

State: [Text Input] Country or Region: [Text Input] Select country/ Region

Pincode: [Text Input]

Product details

Product Name: [Text Input]

Product Description: [Text Input]

Add image ↑ [Image Input]

Fig 9.3

- 8) Once entered all the details user needs to clicks the option save seller. Once the button clicked the date should be saved to the buy material database and message should be shown. Fig 9.4

Add Seller Details

Product Price: [Text Input] Unit: [Text Input] + Add product

Discount (%) (any): [Text Input]

Tax (%): [Text Input]

Replace: Yes No

Save seller

Seller contact saved successfully!

Fig 9.4

- 9) If the replace option is selected as no then in the main page at the replace option should be shown as NA and the button should be disabled. Fig 9.5

Serial Number	Product Name	Current available	Required	Seller Name	Order	replace
1	Carbon Fibre	150	160	A-z industries	Place order	Replace
2	Copper coil	200	140	A-z industries	Place order	NA

Fig 9.5

FR-010 Create main page for orders tab:

- In the orders tab the drop down to select the project should be placed. Add order button should be created to the right of the project selection.
- Post that the order name, customer or company name, product name, delivery date, days remaining and update data of the order history should be displayed in a tabular format with rows and columns. Create a drop down for the update column with values of in progress, not started and completed should be mentioned. Sort option should be created for the days remaining column. In days remaining column the days should be automatically calculated by subtracting delivery date and the current date. Create a separate algorithm for that.
- At the bottom of the table the option to select pages should be included with row value limit selection drop down should be placed.
- Include view button for all the records in the row. If the user selects the project then the products related to the particular project must be show only. All the details must be displayed from the orders data base. Fig 10.1

Current orders						
Order Number	Name	Product Name	Order Delivery Date	Update	Days Remaining	View details
SOA11	Customer name	Digital Console	10/03/2025	Completed	40	View
SOB12	Company name	Coventional X-Ray	30/06/2025	Not started	152	View
SO1G2	Company name	Multiple	30/03/2025	In progress	60	View
SOTP2	Customer name	Generator	20/04/2025	Completed	81	View

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Fig 10.1

- 5) Once the user clicked the view button then new page must be opened from the server end.
- 6) In the order details page all the order details, Customer details and amount details should be displayed from the orders database.
- 7) At the bottom of the page the options to change the status to completed button should be placed. Once the user clicked the button the order status should be marked as completed and it should display in the main page also. Then the options to click the move to shipping button should be placed. Once clicked the order move to the fulfillment process and save date to the fulfillment database. Before that the completed button must be clicked. If the user directly clicks the move to shipping without completed, then error should be shown. Fig 10.2



Fig 10.2

- 8) At the bottom of the right corner the options to move the back to order button should be placed. Once user clicked the button it should re direct to the orders main page. Fig 10.3

Product Name	Qty	Price	Discount %	Total	Tax	0.00
1 st Product	0	0.00	0.00	0.00	Shipment charge	0.00
2 nd Product	0	0.00	0.00	0.00	Grand total	0.00

Change progress Completed Move to shipping

Back to Orders

Fig 10.3

FR-011 Create add order page for orders tab:

- 1) Once clicked the add order page, the page must be opened from server to enter the sales order details.
- 2) Create a separate text boxes for the name of the customer and email. The name box should accept alphabetic values only. The email text box should accept both alpha-numeric value. If the user enters anything other than numeric in the name of seller box then error message should be shown. Post that the option to enter the mobile number with count code drop down must be placed. Refer Fig 9.1
- 3) Then the customer shipping address details should be captured. Create a separate text boxes for block number, area/street, town/city, state and pin code. The block number and pin code text boxes should accept numeric only. All the other text boxes should accept alphabetic only except area/street it should accept both alpha numeric values. If the user enters anything other than mentioned in the text boxes then error message should be shown. Refer Fig 9.2
- 4) Then radio buttons should be placed to select whether the billing address is same as shipping or not. If yes then the all the values should be auto captured from the shipping address. If not then the user needs to capture the billing address as the same steps followed in the shipping address. Fig 11.1

Add order Details

Name of customer/Company

Email

Mobile Number Code

Shipping Address

Block no Area/Street Town/ City

State Country or Region Pincode

Billing Address

Is billing address same as shipping Yes No

Block no Area/Street Town/ City

State Country or Region Pincode

Fig 11.1

- 5) Post that the order number should be generated from the server randomly. The order number should be 5 digits in length. The first two digits starts with SO. The third letter should be any alphabet from A to Z. Fourth letter should be either alpha or numeric. Fifth letter must be numeric only from 0 to 9. All the generated letters must be in capital only. Develop algorithm according to the above requirements. Ex SOA19, SORT.
- 6) Then the order details should be captured. Create a Drop down for products which are available in the industry. Then the option to enter the quantity text box should be created. Below the text box the available value should ne auto displayed. This data should be fetched from stocks database.

- 7) Then create auto capture text box where it should display the price details of the particular order from the data base. Then the options to enter the discount and text boxes should be created, it should accept the decimal values up to 2 digits after point. Then the total value should be auto calculated by multiplying price, quantity, tax and discount percentage and auto entered. Create algorithm for this need.
- 8) Add order button should be created below if user wants to add more products then it should be used.
- 9) Post that shipping options drop down must be placed. Once user clicks the shipping option then the estimated delivery date should be calculated approximately by taking stocks value, production time and delivery time. The delivery time and the shipping charge should be calculated by coordination with the shipping partner server. Create prediction algorithm with involving all the other parameters mentioned above.
- 10) Then the grand total should be calculated by addition of shipping charge and the Total order value.
- 11) Post that the options for the payment should be included (cash, cheque, bank account). Create separate radio buttons for the all the three payment options.
- 12) Once user selects the payment mode by confirming customer then the buttons should be placed for full payment or advance. If the Customer opts for full payment then user needs to clicks the full payment button and verify and place order button should be created below. For all the payment method manual verification needs to be completed by the respective user.

Add order Details

Serial	Product name	Quantity	Price	Discount (%)	Tax (%)	Total
1	Select products	0 unit	0.00	0.00	0.00	0.00

+ Add product Current availability 0

Choose shipping Select available shipping

Estimated delivery Date DD day, Month, YYYY

Add this to project

Shipment charge 0.00 INR

Grand Total 0.00 INR

Payment options

Cash Cheque Bank Account

Full payment Advance

enter the advance amount

proceed

verify and place order

Order accepted successfully!

Amount paid 0.00

Remaining amount to be paid 0.00

Back to Orders

Fig 11.2

- 13) If the customer prefers for advance payment then user needs to click the advance button and must enter the manual advance amount in the text box. This should accept only numeric values. Then proceed button should be placed left of the text box to save the advance amount details. All the transaction value must be saved to the transaction database. The overall details should be saved to the orders data base. From this only the main page and view details tab should fetch the data and shown.
- 14) Once manually verified the details and clicks the place order the message should be shown as order placed successfully with the amount paid and pending amount. At the bottom of the right corner the back to orders button should be placed. Once user clicks the button it should re directs to the orders tab main page. Fig 11.2

FR-012 Create sales order view in the transaction tab:

- 1) Once user clicked the transaction tab then sales order and purchase order button should be placed at the top with timeframe filter option.
- 2) Once user clicked the sales order tab and particular time frame then the data should be shown from the transaction database in the tabular format.
- 3) The order number, customer name, amount paid, due, Transaction date should be fetched from the transaction data base. Manufacturing cost must be fetched from stocks database.
- 4) In the profit column the internal calculations should be done by subtracting total amount and manufacturing cost should be displayed. If the amount is pending in the due then in profit column the status must be shown as pending.
- 5) In the status column if the due amount is 0 then status should be updated as completed otherwise not completed. The view option should be included for all the records. Fig 12.1

The screenshot shows the 'Transaction History' section of the application. The sidebar on the left has a blue background and lists various modules: Inventory, Production, Stocks, Buy materials, Orders, **Transaction** (which is selected), Fulfilment, and Report. The main content area has a white background. At the top, there are buttons for 'Sales order' and 'Purchase order'. Below that is a 'Time Frame' section with dropdowns for 'Date Field' (set to 'First_Day_of_Month') and 'Range' (set to 'Previous Month'), along with date pickers for 'From' and 'To'. The main table has the following data:

Order Number	Name	Manufacturing cost	Total	Amount paid	Due amount	Transaction Date	Profit	Status	View details
SOA11	Customer name	60000	150000	100000	50000	10/03/2025	Pending	Not completed	View
SOB12	Company name	130000	200000	200000	0.00	05/03/2025	70000	Completed	View

At the bottom of the table, there are navigation links: '<< first < previous 1 2 3 4 next > last >>' and a dropdown for 'Show 15 items per page'.

Fig 12.1

- 6) Once user clicked the view section then the customer details, product details and complete details of the transaction should be displayed. If the customer has purchased any products in the past then it should also mentioned in the past transaction.
 - 7) If the amount is due and the customer has done the advance transaction then the reference number 1 should be entered manually in the text box. For the remaining amount the reference number should be entered in reference number 2 text box. This should accept numeric value only. Once the amount cleared and marked the status in completed button then the invoice button should be displayed and once clicked the invoice should be generated from the database.
- Fig 12.2

Transaction Date	DD/MM/YYYY
Reference Number 1	123456789
Remaining Due	0.00
Reference Number 2	123456789
<input type="button" value="Completed"/> <input type="button" value="Invoice"/>	

Fig 12.2

- 8) If there is no due amount then in the text box reference number should be displayed once entered the reference number then invoice button should be directly displayed. Back button should be placed at the bottom, once clicked it must be re direct to the transaction main page Fig 12.3

Inventory	Transaction Details								+ Tab
Production	Customer Name								
Stocks	Customer Name								
Buy materials	Billing address								Block num, Area name, State , City, State, Country, Pincode
Orders	Current Bill								
Transaction	Purchased products	Qty	Price per unit	Total price	Discount%	Tax %	Final price	Total Bill value	0.00
Fulfilment	1. product name	Qty unit	0.00	0.00	0.00 %	0.00 %	0.00	Amount paid	0.00
Report	2. product name	Qty unit	0.00	0.00	0.00 %	0.00 %	0.00	Transaction Date	DD/MM/YYYY
								Reference Number	123456789
								<input type="button" value="Invoice"/>	
	Past transaction								
	↓ Transaction date	↓ Order value	Paid amount	Due	Status	View details	Invoice		
	DD/MM/YYYY	0.00	0.00	0.00	Completed	< View	Yes		
	DD/MM/YYYY	0.00	0.00	0.00	Pending	< View	Pending		
								<input type="button" value="Back to main page"/>	

Fig 12.3

FR-013 Create purchase order view in the transaction tab:

- 1) Once user clicked the purchase order tab and particular time frame then the data should be shown from the transaction database in the tabular format.
- 2) The seller name, product name, total value, amount paid, transaction date should be fetched from the buy materials database. The view button should be displayed for all the records. Fig 13.1

Transaction History						
Product name	Seller Name	Total value	Amount paid	Transaction Date	Status	View details
product name	Seller name	150000	200000	10/03/2025	Completed	<u>< View</u>
product Name	Seller name	200000	200000	05/03/2025	Completed	<u>< View</u>
<< first < previous 1 2 3 4 5 6 next						
Show 15 items per page						

Fig 13.1

- 3) Once user clicked the view button the seller details, purchased order details for the industry and amount details should be displayed from the buy material data base.
- 4) The upload invoice button should be included to upload the invoice of the purchased order from seller. Once user clicks the add image box should be open to add the image from the storage. Refer Fig 7.1. Once uploaded the invoice button should be shown. Fig 13.2

Transaction Date DD/MM/YYYY
 Reference Number 123456789

 Upload invoice

Fig 13.2

- 5) If the invoice is already uploaded then the direct invoice button should be visible to view the invoice. Back button should be placed at the bottom, once clicked it must be re direct to the transaction main page. Fig 13.3

Fig 13.3

[FR-014 Create fulfillment tab with view options:](#)

- Once user clicked the fulfillment tab and the data in the form of table should be displayed from the fulfillment data base. Separate search bar must be placed at the top with options to search for customer name or order id. Once searched the results must be displayed with the applied condition.
- Order id, customer name, product name, promised delivery date details should be fetched from the fulfillment data base and shown. The days remaining column should calculate the remaining days by subtracting delivery date from the current date and display in the column. Sort ascending option should be included for this column.
- Create update dropdown in the column with options in progress, started and delivered to filter the results. View tab should be displayed for all the record in the row. Fig 14.1

Order Number	Customer Name	Product Name	Order Delivery Date	Days Remaining	Status	View details
SOA11	Customer name	Digital Console	10/03/2025	10	In progress	View
SOB12	Company name	Coventional X-Ray	20/03/2025	20	started	View
SO1G2	Company name	Multiple	15/03/2025	15	started	View
SO1B2	Company name	Multiple	28/02/2025	15	Delivered	View

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Show 15 items per page

Fig 14.1

- 4) If the user clicked the view button for in progress status in the pain page, then new page should be opened. In the page the customer details and shipping details must be visible with options to pay for the shipment. Pay and book button should be placed. Once the user clicked the button it should re direct to the shipping partner server. From there it should be direct to the industry bank server to complete the payment and back to the page. Once completed the page should re direct to shipping partner server and back to the original page. The confirmation should be popped up. Fig 14.2



Fig 14.2

- 5) If the shipment is booked in offline mode then enter tracking id text box should be created. This must be user to enter the tracking id for online payment transaction also. This field should accept both alpha numeric values. Below that the add upload button to upload the courier slip should be placed. Once completed then move to started category button must be placed. Once user clicked the button the status should change from in progress to started category with confirmation message pop up. This data should be saved to the fulfillment database and change the status overall. Fig 14.3

The screenshot shows the 'Shipping Information' page for a fulfillment record. The left sidebar has a 'Fulfilment' button highlighted. The main area displays shipping details:

- Shipping Information**
- Product Name:** ABCDEFGHIJ
- Recipient name:** ABCDEFGHIJ
- Recipient Number:** Mobile number with code
- Recipient Address:** Block num, Area name, State , City, State, Country, Pincode
- Carrier Name:** Name of the shipping partner
- Shipping charge:** 0.00

Buttons and status messages include:

- Pay and book** button
- Already booked in offline** message
- Enter Tracking ID** input field
- Upload slip** button
- Add file** button
- Move to started category** button
- Status changed from inprogress to started category!** message

Fig 14.3

- 6) If the user clicked the view button for started status record from the main page, the new page must be open with the complete shipping information of the order. On the right side of the page the tracking update should be shown as separately. The update should be fetched from the shipping partner server and shown here. Create sever according to that. At the bottom the promised delivery date should be shown.
- 7) At last the button to move to delivered category button should be placed. Once user clicked the button the status should change from started to delivered category with confirmation message pop up. This data should be saved to the fulfillment database and change the status overall Fig 14.4

The screenshot shows the 'Shipping Information' page for a fulfillment record. The left sidebar has a 'Fulfilment' button highlighted. The main area displays shipping details and tracking updates:

- Shipping Information**
- Product Name:** ABCDEFGHIJ
- Recipient name:** ABCDEFGHIJ
- Recipient Number:** Mobile number with code
- Recipient Address:** Block num, Area name, State , City, State, Country, Pincode
- Carrier Name:** Name of the shipping partner
- Package Booked on:** DD/MM/YYYY
- Shipping charge:** 0.00
- Tracking ID:** Alpha numeric

The right side shows a 'Tracking update' section with a timeline of events:

- Started shipping on DD/MM/YYYY Day
- Move from initial location on DD/MM/YYYY Day
- Current update on DD/MM/YYYY Day

Buttons and status messages include:

- Move to delivered category** button
- Promised delivery date DD/MM/YYYY Day** message
- Status changed from inprogress to started category!** message

Fig 14.4

FR-015 Create Reports tab:

- 1) Once user clicked the reports option from the list of main tabs create report and view report button should be placed.
- 2) If the user clicks the view report button then existing available reports must be shown one by one from the data base. If the user clicks any one report it should be open on right side of the list of reports. Fig 15.1

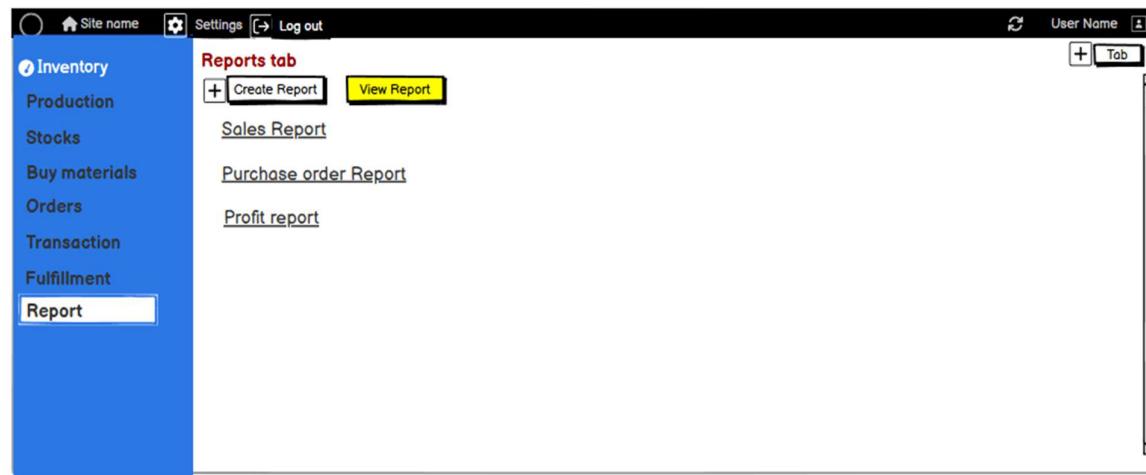


Fig 15.1

- 3) If the user selects the create report button then the options to upload the document from the internal storage should be included (Refer Fig 7.1).Once user clicks and upload the file it should be automatically stored to the reports table in database. It must be displayed on the view reports as well.
- 4) Post that create a separate search bar to fetch the data from the saved database overall. For that function to perform create a separate server for Artificial Intelligence and all the database access must be given to the AI server. If user search anything about the data saved in X-Ray Inventory management software database, then the request must be passed to the software server.
- 5) From the software server the request should be moved to the AI server, where the AI must fetch the exact information about the user query and the fetched information should be back to the server and from this the data should be displayed at the text box blow the search box. This process should be complete in a fractions of seconds. The server must be capable to this requirements without any lag. Fig 15.2

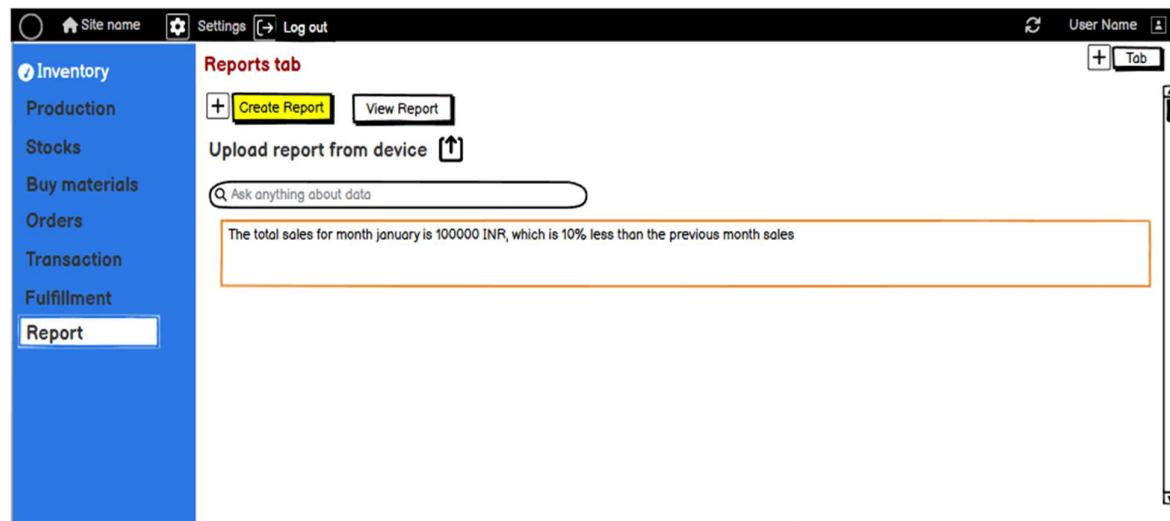


Fig 15.2

6 Appendices

6.1 List of Acronyms

6.2 Glossary of Terms

- 1) User – The person who uses the X-Ray Inventory management tool.

6.3 Related Documents