QIONIQ.AI®
ADDING INTELLIGENCE

REQUIREMENT DOCUMENT

Building 8-2-293-82/A, Plot 1107, Road Number 55,
opposite Peddamma Talli Temple, CBI Colony,
Jubilee Hills, Hyderabad, Telangana 500033

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Revision History

Name	Date	Reason For Changes	Version

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REQUIREMENT DOCUMENT

1 Procurement

The **Procurement Module** in the Jewellery ERP system is designed to streamline and manage the purchasing process, ensuring efficient procurement of raw materials, gemstones, metals, and finished goods. It facilitates vendor management, purchase order creation, supplier negotiations, and order tracking. This module helps businesses optimize procurement costs, maintain stock levels, and ensure a smooth supply chain by integrating with inventory and financial systems. It also enables real-time monitoring of purchase transactions, reducing delays and discrepancies while enhancing overall procurement efficiency.

1.1 Alloy Inward

The Alloy Inward Form in the Jewellery ERP system is designed to streamline the entry and management of Alloy Inward specific data. This form allows users to inward, edit, delete, and view details related to various alloy inwards involved in the jewellery supply chain. By centralizing this information, the alloy inward Form ensures consistency in business data utilized across multiple modules, such as production management, vendor relations, and inventory control. This functionality supports efficient operations and enhances compliance with industry standards within the ERP system.

1.1.1 Data View

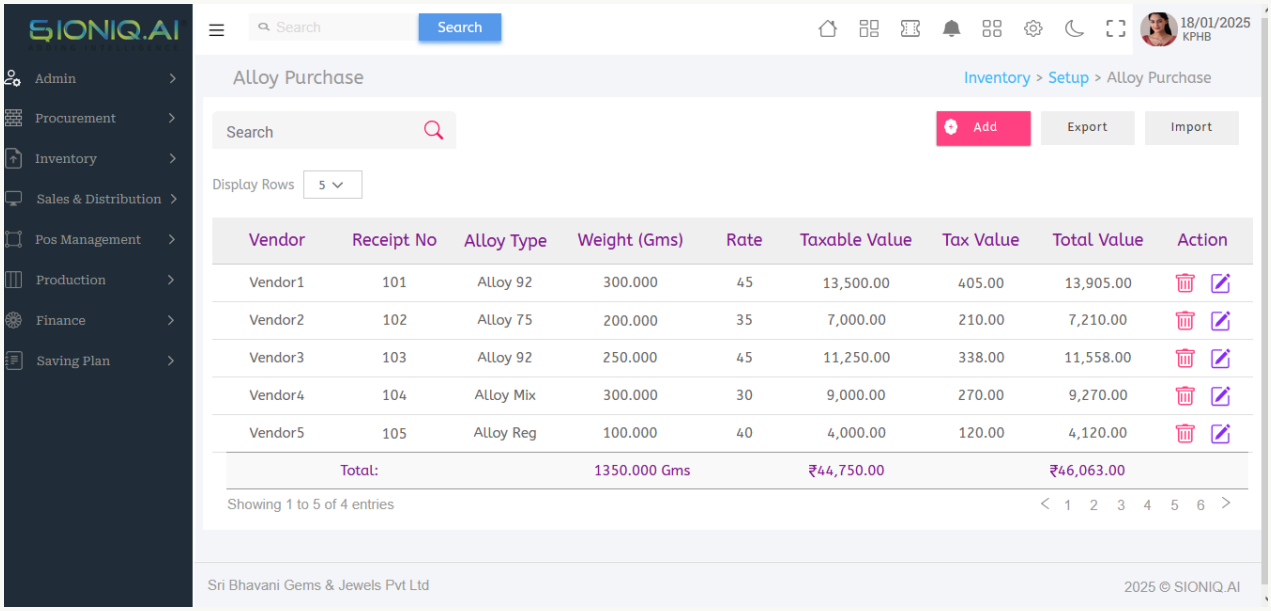
1.1.1.1 Purpose

This section displays depends on user rights an overview of all alloy inwards currently registered in the system. Users can view detailed information for each vendor, alloy, or receipt no allowing for quick access to all existing records, supporting informed decision-making and streamlined navigation.

1.1.1.2 User Type

Registered Users, Admins.

1.1.1.3 Screen Layout



1.1.1.4 UI Elements

- **Search Option**
  - **Description:** A search bar located at the top of the data view section to filter companies displayed in the table.
  - **Functionality:**
    - Enables users to search by Vendor, Receipt No, Alloy Type, Weight (Gms), Rate, Taxable value, Tax value.
    - Dynamically updates the displayed table to show only results that match the search query.
- **Display Dropdown**
  - **Description**: A dropdown control to set the number of rows shown in the table at once.
  - **Options**: Common choices (e.g., 5, 10, 25, 50, 100 rows per page).
  - **Functionality**:
    - Allows users to control the number of alloy inward records displayed per page.
    - Updates the table view immediately based on the selected number of rows.
- **Buttons**
  - **Add Alloy Inward Button**
    - **Label**: "Add"
    - **Functionality**: Opens the Alloy Inward Form to add a new Alloy Inward record.
  - **Export Button**
    - **Label**: "Export" (or Icon button as specified)
    - **Functionality**: Allows users to export the displayed Alloy Inward data in various file formats (Excel).
    - **Export Options**:

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        - Exports all or filtered data based on the current table view and search filter.
- **Import Button**
    - **Label**: "Import" (or Icon button as specified)
    - **Functionality**:
        - Redirects to the Import Form page, where users can upload Alloy inward data.

○ **Tabular View**

- **Description**: Displays a structured view of all created companies.
- **Columns**:
    - **Vendor**: Displays the supplier from whom the alloy was received.
    - **Receipt No**: Shows the receipt number associated with the inwarded alloy.
    - **Alloy Type**: Indicates the type of alloy.
    - **Weight (Gms)**: Displays the weight of the alloy in grams.
    - **Rate**: Displays the rate per gram in alloy.
    - **Taxable value**: Shows the Taxable value based on weight and rate.
    - **Tax Value**: Displays calculated tax.
    - **Action**:
        - **Delete**: Deletes the selected alloy inward record (permission-based).
            - **Functionality**: Triggers a delete confirmation prompt (see "Delete Confirmation" in functional requirements).
        - **Edit**: Allows modification of a alloy inwarded information (permission-based).
            - **Functionality**: Loads the selected alloy inwarded data into the Alloy Inward Form for editing.

○ **Paging for Table View**

- **Description:** Includes pagination controls at the bottom of the table for navigating through multiple pages of alloy inward records.
- **Functionality:**
    - Displays navigation buttons (e.g., "Previous", "Next") to move between pages.
    - Shows page numbers to allow users to jump directly to specific pages.
    - Updates the displayed alloy inward records based on the selected page.

1.1.1.5 Functional Requirements

Refer to the above **UI Elements** section for specific functionalities associated with each element.

1.1.1.6 Data Requirements

○ **Alloy Inward Data**

- **Source:** Alloy Inward Table
- **Fields Required:**
    - **Vendor**: The supplier from whom the alloy is received.
    - **Receipt No**: Unique receipt number associated with the inwarded alloy.

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- **Alloy Type:** The specific type of alloy received.
- **Weight (Gms):** The weight of the alloy in grams.
- **Rate:** The per gram rate of the alloy.
- **Taxable Value**: The value of the value before tax calculation.
- **Tax Value**: The calculated tax amount based on applicable rates.
- **Total Value**: The final amount including tax.
- **Action**:
  - **Delete**: Removes the selected record after a confirmation prompt (permission-based).
  - **Edit**: Allows modification of an existing record (permission-based).

- **Usage**: Main data for display in the table, searchable and filterable and displays total weight, total taxable value and total amount.

1.1.1.7 Non-Functional Requirements

None.

1.1.1.8 Configurations

- **Functionality**:
  - **Permission Settings**: Controls the visibility and accessibility of buttons and actions based on user roles or permissions.
- **Available Permissions**:
  - **Add Alloy Inward Permission**: Grants access to the "Add Alloy Inward" button.
  - **Export Permission**: Grants access to the Export button for exporting data.
  - **Import Permission**: Grants access to the Import button for importing data.
  - **Edit Permission**: Allows users to access the Edit button in the Action column to modify records.
  - **Delete Permission**: Allows users to access the Delete button in the Action column to delete records.
- **Permission Assignment**: Admins or authorized users can assign permissions to individual users or user roles.

1.1.1.9 Flowchart

None.

1.1.1.10 Additional Notes

None.

1.1.2 Create Alloy Inward

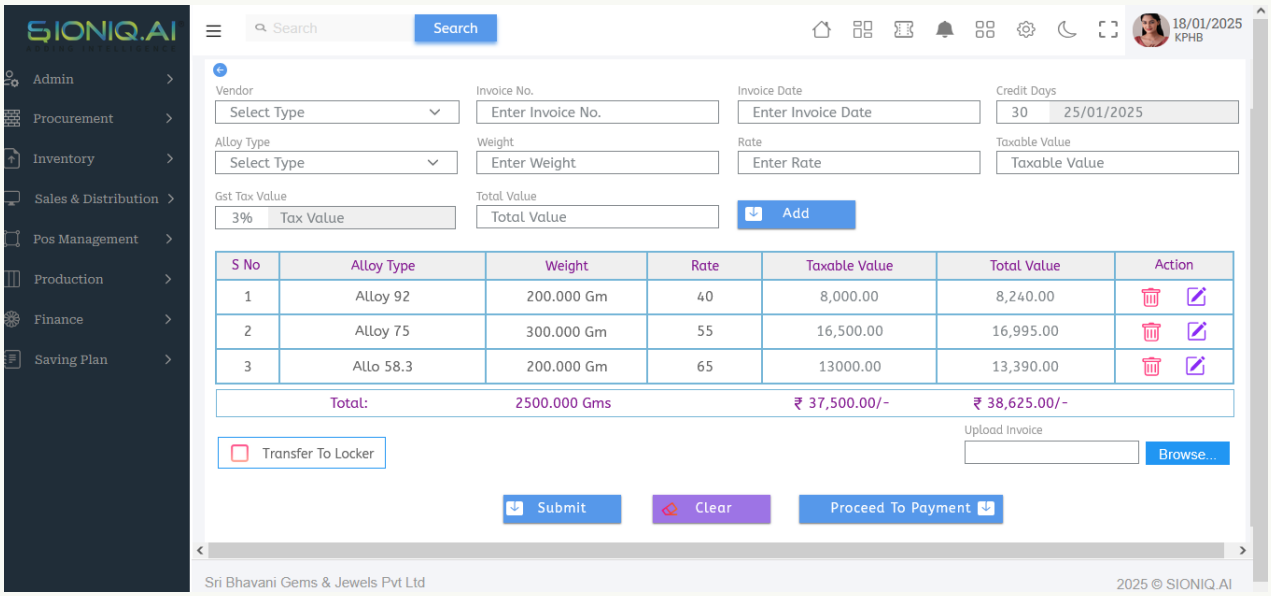
1.1.2.1 Purpose

This section allows users to add a new Alloy Inward to the ERP system. Users can enter key information such as the vendor, Invoice No, Invoice date, Credit days, Alloy type, Weight, Rate, Taxable Value, Gst Tax value and Total value. This process ensures consistent data entry for operational and reporting purposes.

1.1.2.2 User Type

Registered Users, Admins.

1.1.2.3 Screen Layout



1.1.2.4 UI Elements

- **Vendor Selection**
  - **Type:** Dropdown
  - **Label:** "Vendor"
  - **Editable:** Yes
  - **Description:** Allows users to select a vendor from the predefined list.
  - **Validation:**
    - **Required:** Yes
    - **Options:** Populated dynamically from the Vendor Master Table.
- **Invoice Number**
  - **Type**: Text Input
  - **Label**: "Invoice No"
  - **Editable**: Yes
  - **Description**: Field to enter the invoice number associated with the inwarded alloy.
  - **Validation**:

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- Required: Yes
- Character Limit: 100 characters
- Allowed Characters: Alphanumeric, hyphens, and slashes.

- **Invoice Date**
  - **Type**: Date Picker
  - **Label**: "Invoice Date"
  - **Editable**: Yes
  - **Description**: Field to select the date when the invoice was generated.
  - **Validation**:
    - Required: Yes.
    - Format: DD/MM/YYYY.
- **Credit Days Input**
  - **Type**: Numeric Input
  - **Label**: "Credit Days"
  - **Editable**: Yes
  - **Description**: Users enter the number of credit days (e.g., 15,30).
  - **Validation**:
    - Required: Yes.
    - Allowed Values: Only positive whole numbers.
- **Auto-Generated Due Date**
  - **Type**: Read-Only Field
  - **Label**: "Due Date"
  - **Editable**: No (Auto Calculated)
  - **Description**: Displays the calculated due date based on the ERP application date
  - **Behavior**:
    - When the user enters credit days the system automatically calculates the due date (e.g., Due Date = ERP Application Date + Credit Days).
    - The ERP Application date is 24/03/2025 and the user enters 30days, the due date will be 23/04/2025.
    - The calculated due date is displayed in DD/MM/YYYY format.
- **Alloy selection**
  - **Type:** Dropdown
  - **Label:** "Alloy"
  - **Editable:** Yes
  - **Description:** Allows users to select the type of alloy being inwarded.

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- **Validation:**
  - **Required:** Yes
  - **Options:** Populated dynamically from the Alloy Master Table.

- **Weight Input**
  - **Type**: Numeric Input
  - **Label**: "Weight (Gms)"
  - **Editable**: Yes
  - **Description**: Field to enter the weight of the alloy in grams.
  - **Validation**:
    - Required: Yes
    - Allowed Range: Minimum 0.001 gram.
- **Rate Input**
  - **Type**: Numeric Input
  - **Label**: "Rate"
  - **Editable**: Yes
  - **Description**: Field to enter the per gram rate of the alloy.
  - **Validation**:
    - Required: Yes.
    - Allowed Range: Numeric values only.
- **Taxable Value**
  - **Type**: Read-Only Field
  - **Label**: "Taxable Value"
  - **Editable**: No
  - **Description**: Displays the calculated value before tax is applied (weight * Rate).

- **Tax Value (predefined Percentage)**
  - **Type**: Read-Only Field
  - **Label**: "Tax Value"
  - **Editable**: No (Auto calculated)
  - **Format**: “{Predefined Tax}- {Calculated Tax Value}”
  - **Description**:
    - The field will display both Tax% and the Calculated Tax Value together.
    - Users cannot edit this field; it is generated automatically.
    - The Tax% is predefined, and the Tax Value is calculated based on the taxable amount (e.g., Tax value = (taxable Value * predefined Tax %) / 100

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- **Total Value**
  - **Type**: Read-Only Field
  - **Label**: "Total Value"
  - **Editable**: No
  - **Description**: Displays the calculated value after tax is applied.

- **Add Button**
  - **Type**: Button
  - **Label**: "Add"
  - **Editable**: No
  - **Description**: Adds the entered alloy details to the table below.
  - **Behavior**:
    - **On Click**: Validates the input fields and appends the entry to the list.
    - Displays an error message if required fields are missing.

- **Transfer to Locker Checkbox**
  - **Type**: Checkbox
  - **Label**: "Transfer To Locker"
  - **Editable**: Yes
  - **Behavior**:
    - **Checked**: Enables the Cost center dropdown for selection.
    - **Unchecked**: Hides the Cost Center and Locker fields.

- **Cost Center Selection (Visible if “Transfer to Locker” is checked)**
  - **Type**: Dropdown
  - **Label**: "Cost Center"
  - **Editable**: Yes
  - **Description**: Allows users to assign the inwarded alloy to a specific cost center.
  - **Validation**:
    - **Required**: Yes (if Transfer to Locker is checked).
    - **Options**: Populated dynamically from the Cost Center Master table.

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- **Locker Selection (Visible if Cost Center is selected)**
  - **Type**: Dropdown
  - **Label**: "Locker"
  - **Editable**: Yes
  - **Description**: Allows users to select a location for storing the inwarded alloy.
  - **Validation**:
    - **Required**: Yes (if Cost center is selected).
    - **Options**: Populated dynamically from the Locker Master Table.

- **File Upload for Invoice**
  - **Type**: File Upload
  - **Label**: "Upload Invoice"
  - **Editable**: Yes
  - **Description**: Allows users to upload an invoice document.
  - **Validation**:
    - **Required**: No.
    - **Allowed Formats**: PDF, JPEG, PNG.
    - **Max File Size**: 5MB

- **Submit Button**
  - **Type**: Button
  - **Label**: "Submit"
  - **Editable**: No (Standard Button)
  - **Description**: Saves the form data to the system.
  - **Validation**:
    - **Required Fields**: Ensures all mandatory fields are filled before submission.
  - **Behavior**:
    - **Successful Submission**: Form data is saved to the database.
    - **Failed Validation**: Displays an error message highlighting the fields requiring correction.

- **Clear Button**

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- **Type**: Button
- **Label**: "Clear"
- **Editable**: No (Standard Button)
- **Description**: Resets or clears all form fields, enabling a fresh start.
- **Validation**: None required.
- **Behavior**:
    - **Reset Form Fields**: Clears all data entered in the form fields.
    - **Confirmation Prompt**: Prompts the user to confirm the action to prevent accidental data loss.

○ **Proceed to Payment Button**

- **Type**: Button
- **Label**: “Proceed to Payment"
- **Editable**: No (Standard Button)
- **Description**: Directs users to the payment processing module after submission.

○ **Previous Button**

- **Type**: Button
- **Label**: "Previous Icon"
- **Editable**: No (Standard Button)
- **Description**: Closes the Alloy Inward Form and returns the user to the main Alloy Inward table view, discarding unsaved changes.
- **Validation**: None required.

1.1.2.5 Functional Requirements

○ **Actions**

- **Add Button Click**
    - **Action**: Triggers form submission if all required fields (vendor, alloy, weight, rate) contain valid values. Adds a new row to the alloy table with entered details
    - **Outcome**:
        - A new row is added with entered details.
        - If validation fails, entry is blocked, and an error message appears

○ **Validation**

- **Mandatory Fields**

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- **Fields:** Vendor, Alloy, Weight and Rate are required fields.
- **behaviour:**
  - If all required values are entered correctly, a new record is added to the table.
  - If validation fails, an error message appears, and the row is not added.

- **Error Messages**
  - **Add Attempt with Missing Values**
    - **Condition:** If one or more required fields are missing a value when the user clicks Submit.
    - **behaviour:** The system displays a specific error message indicating which field(s) are missing values.
    - **Message Examples:**
      - "Alloy is required" if empty.
      - "Weight and Rate must be greater than 0." if invalid.
- **Submit Button Click**
  - **Action**: Triggers form submission if all required fields contain valid values.
  - **Outcome**:
    - If valid, saves the entered details.
    - If any field is missing, submission is blocked with an error message.
- **Validation**
  - **Mandatory Fields**
    - **Fields:** Vendor, Alloy, Weight and Rate are required fields.
    - **behaviour:**
      - Clicking submit checks for missing required fields.
      - If all fields are valid → Data is saved.
      - If any field is missing → Error message appears. .
- **Error Messages**
  - **Submit Attempt with Missing Values**
    - **Condition:** If one or more required fields are missing a value when the user clicks Submit.
    - **behaviour:** The system displays a specific error message indicating which field(s) are missing values.
    - **Message Examples:**
      - "Alloy is required" if empty.
      - "Weight and Rate must be greater than 0." if invalid.
- **Transfer to Locker Checkbox**
  - **Action**: Enables additional fields cost center and Locker when checked.
  - **Outcome**:
    - If checked → Cost center dropdown appears.
    - If Cost Center is selected → Locker dropdown appears
    - If Unchecked → Both fields remains hidden.
- **Validation**

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- **Mandatory Fields**
  - Cost Center must be selected if Transfer to Locker is Checked
  - Locker must be selected if Cost Center is chosen.

- **Error Messages**
  - **Submit Attempt with Missing Values**
    - “Cost Center is required when transferring to locker.”
    - “Locker selection is required when a Cost Center is chosen.”

- **Proceed to Payment Button Click**
  - **Action**: Moves the users to the payment screen.
  - **Outcome**:
    - If all details are correct, the user is redirected.
    - If missing details, an error message appears

- **Validation**
  - **Mandatory Fields**
    - Total amount must be greater than 0.
- **Error Messages**
  - “Total Amount must be greater than 0 to proceed”.

1.1.2.6 Data Requirements

- **Vendor:**
  - **Source**: Vendor Master Table.
  - **Fields Copied**:
    - Vendor: The supplier from whom the alloy is received.
  - **Usage:**
    - **Populating Vendor Fields**: Populates the dropdown list for selection a vendor. Only predefined vendors from the master table can be selected.
- **Alloy:**
  - **Source**: Alloy Master Table.
  - **Fields Copied**:
    - Alloy: The specific type of alloy received.
  - **Usage:**
    - **Populating Alloy Fields**: Provides a dropdown list of available alloy types. Users must select from the predefined options.
- **Tax Value (%):**
  - **Source**: Tax Master Table.
  - **Fields Copied**:
    - Alloy: The calculated tax percentage based on applicable rates.
  - **Usage:**

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- **Populating Alloy Fields**: Displays the applicable tax percentage. This field is non editable and automatically applied based on system rules.

- **Cost Center:**
  - **Source**: Cost Center Master Table.
  - **Fields Copied**:
    - Cost Center: assign the inwarded alloy to a specific cost center.
  - **Usage:**
    - **Populating Alloy Fields**: Becomes available when the “Transfer to Locker “checkbox is selected. The user must choose a cost center from pre-defined options.
- **Locker:**
  - **Source**: Locker Master Table.
  - **Fields Copied**:
    - Cost Center: assign the inwarded alloy to a specific Locker.
  - **Usage:**
    - **Populating Alloy Fields**: The locker dropdown is enabled after selecting a cost center. The available lockers depend on the chosen cost center

1.1.2.7 Non-Functional Requirements

None.

1.1.2.8 Configurations

None.

1.1.2.9 Flowchart

None.

1.1.2.10 Additional Notes

None.

1.1.3 Update Alloy Inward

1.1.3.1 Purpose

The Edit Alloy Inward section enables authorized users to update existing Alloy Inward records to ensure accurate and current data, supporting the ERP’s alignment with evolving international standards and business requirements.

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1.1.3.2 User Type

Registered Users, Admins.

1.1.3.3 Screen Layout

Same Create Alloy Inward Layout.

1.1.3.4 UI Elements

Same Create Alloy Inward Layout.

1.1.3.5 Functional Requirements

- **Initiate Update Process**
  - **Description:** The update process is triggered by clicking the Edit button in the Action column of the Alloy Inward table.
  - **Functionality:**
    - **Edit Button Action:**
      - Loads the selected alloy's existing details (Alloy, Weight, Rate, Taxable Value, Total Value).
      - Pre-fills the form fields with the current values of the selected record for editing.
  - **Expected Outcome:** The form is populated with the selected alloy's current data, ready for modification.
- **Modify Alloy Inward Details**
  - **Description:** Enables users to modify alloy-related details before saving changes.
  - **Fields Available for Update:**
    - Alloy: Modify the selected alloy type from the predefined list.
    - Rate: Modify the rate per gram.
    - Taxable Value: Automatically recalculated based on the weight and rate.
    - Total Value: Displays the final amount including tax calculations.
    - Transfer to Locker: If selected, enables the **Cost Center** field.
    - Cost Center: Select the appropriate cost center when **Transfer to Locker** is checked.
    - Locker: Becomes available base on the chosen Cost Center.
  - **Expected Outcome:** Users can modify the required fields before submitting the update.
- **Form Validation (Update Mode)**
  - **Purpose:** Ensures that all updated data meets validation requirements before submission.
  - **Validation Criteria:**
    - **Mandatory Fields:** Alloy, Weight, Rate must not be empty.
    - **Specific Field Validation:**
      - **Weight:** Must be greater than0 and numeric.
      - **Rate:** Must be greater than0 and numeric.

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        - **Tax Value:** System defined and non-editable.
        - **Total Value:** Automatically calculated and must match expected results.
    - **Error Handling:** If validation fails, the system displays specific error messages (e.g., "Weight and Rate must be greater than 0").
- **Expected Outcome:** Validation ensures correct entries, preventing invalid data submission.

○ **Submit Updated Data**

- **Description:** Saves the modified data to the database upon successful validation.
- **Functionality:**
    - **Submit Button:**
        - Saves the updated alloy inward data to the database and refreshes the table to reflect changes.
        - Displays a success message to confirm the update (e.g., "Alloy Inward details have been successfully updated").
- **Expected Outcome:** The updated Alloy Inward details are stored in the database, and the user receives confirmation of the successful update.

○ **Cancel Update**

- **Purpose:** Allows users to discard any modifications
- **Functionality:**
    - **Cancel Option:** Users can exit the update process by clicking “Clear” or “Previous button”.
    - **Expected Outcome:** The form closes without saving changes, Keeping original Alloy inward data intact.

○ **Confirmation Message**

- **Purpose:** Notifies the user of the successful update.
- **Functionality:**
    - Display Message: A confirmation message (e.g., "Alloy details successfully updated") appears after submission.
    - Expected Outcome: Users receive a confirmation ensuring their changes were saved.

1.1.3.6 Data Requirements

None.

1.1.3.7 Non-Functional Requirements

None.

1.1.3.8 Configurations

None.

1.1.3.9 Flowchart

None.

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1.1.3.10 Additional Notes

None.

1.1.4 Remove Alloy Inward

1.1.4.1 Purpose

This section allows for the safe removal of an Alloy Inward from the ERP system, typically when the Alloy Inward is no longer relevant to business operations. The action may be restricted if there are dependencies, such as existing records in other modules linked to that Alloy Inward, and safeguards are in place to ensure data integrity across the system.

1.1.4.2 User Type

Registered Users, Admins.

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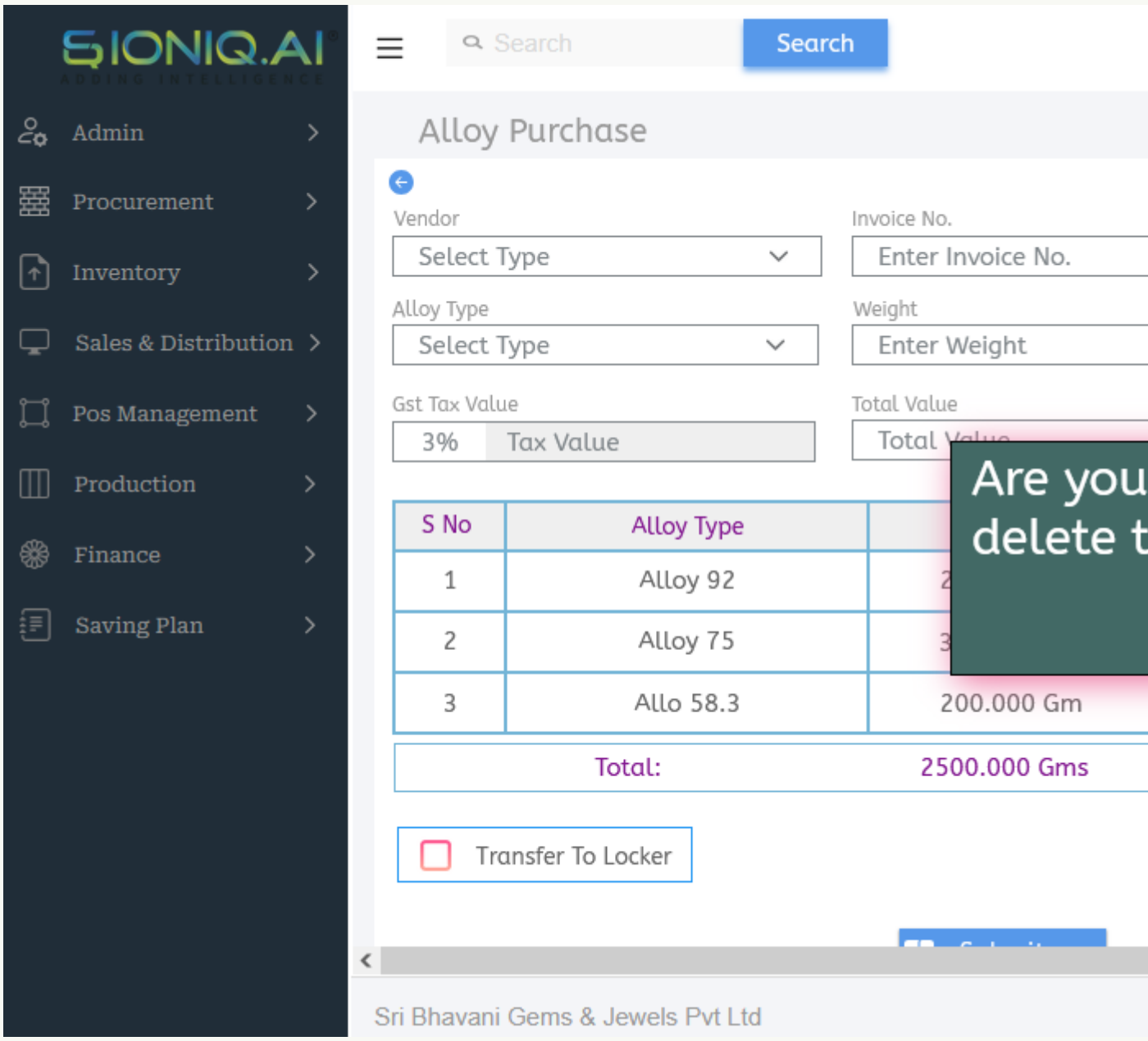
1.1.4.3 Screen Layout



1.1.4.4 UI Elements

None.

1.1.4.5 Functional Requirements

- **Access Control**
  - **Purpose:** Ensure that only authorized users can perform the delete operation.
  - **Functionality:**
    - **Delete Permission:** The Delete button is only accessible to users who have been granted delete permissions in the Configuration Section.

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- **Initiate Delete Action**
  - **Description:** The delete process begins when an authorized user clicks the Delete button in the Action column of the Alloy Inward table.
  - **Functionality:**
    - **Delete Button Action:**
      - Prompts a delete confirmation message to prevent accidental deletion.
- **Delete Confirmation Prompt**
  - **Purpose:** Provide a confirmation prompt to ensure the user wants to proceed with deletion.
  - **Functionality:**
    - **Confirmation Message:** When the Delete button is clicked, display a warning message:
      - "Are you sure you want to delete this Alloy Inward?"
    - **Options:**
      - **Yes:** Confirms the deletion and proceeds with removing the Alloy inward record.
      - **No:** Cancels the delete action without any changes to the data.
  - **Expected Outcome:** The Alloy Inward record is deleted only if the user confirms by selecting "Yes."
- **Delete Execution**
  - **Description:** Once confirmed, the system proceeds to update “Status=0” into the Alloy Inward record from the database.
  - **Functionality:**
    - **Data Removal:** Updated the selected Alloy Inward record from the database [status=0].
    - **Dependencies Check:**
      - Before deletion, the system checks for any dependencies or associations (e.g., Production, Inventory or other references tied to this Alloy Inward).
      - If dependencies exist, display a message (e.g., "Cannot delete Alloy Inward as it has associated Production.") and halt the delete process.
- **Success Message**
  - **Purpose:** Inform the user of the successful completion of the delete action.
  - **Functionality:**
    - **Display Message:** Upon successful deletion, display a success message such as "Alloy Inward has been successfully deleted."
  - **Expected Outcome:** The user sees a confirmation that the record was deleted.
- **Refresh Table View**
  - **Description:** Automatically updates the Alloy Inward table view to reflect the changes made by the deletion.
  - **Functionality:**
    - Refreshes the table view, removing the deleted Alloy Inward record from the list.
    - Pagination Update: Adjusts the pagination if necessary, ensuring the remaining records are displayed correctly.

Building 8-2-293-82/A, Plot 1107, Road Number 55,
opposite Peddamma Talli Temple, CBI Colony,
Jubilee Hills, Hyderabad, Telangana 500033

1.1.4.6 Data Requirements

None.

1.1.4.7 Non-Functional Requirements

None.

1.1.4.8 Configurations

None.

1.1.4.9 Flowchart

None.

1.1.4.10 Additional Notes

None.