

Project Name: ERP Management System

Module Tested: Employee Interface & Admin Interface

2. Objective of Testing

Main objective of the testing:

- Trace functional or user-interface issue that comes in admin or user panel.
- Check system workflow security or useability.
- Trace Bugs and define **severity aur status**.

3. Employee Module

3.1 Search Inventory Section



Fig 3.1.1: Search icon

- **Issue:** When the user clicks the search button without typing anything in the search bar, all items are displayed by default.
- **Expected Behavior:** The search button should be disabled until the user enters text in the search bar.

Description	MPN	Part No.	Make	On Hand Qty	UoM	Action
RES 560E 1/BW 1% 0805	CRCW0805560RFKEA	1100205372	Vishay	474	UNITS	Add to Basket
RES 5K 1/10W 0.1% 0603	RT0603BRE075KL	1100102382	Yageo	833	UNITS	Add to Basket
lqazp	askj	-	-	65	UNITS	Add to Basket
Multimeter	abc	-	-	0	UNITS	Add to Basket
Resistor	qwe	-	-	0	UNITS	Add to Basket
hrhfbe	bhui	-	-	3	UNITS	Add to Basket
lkjh	bottle	-	-	0	UNITS	Add to Basket

Fig 3.1.2: showing all components.

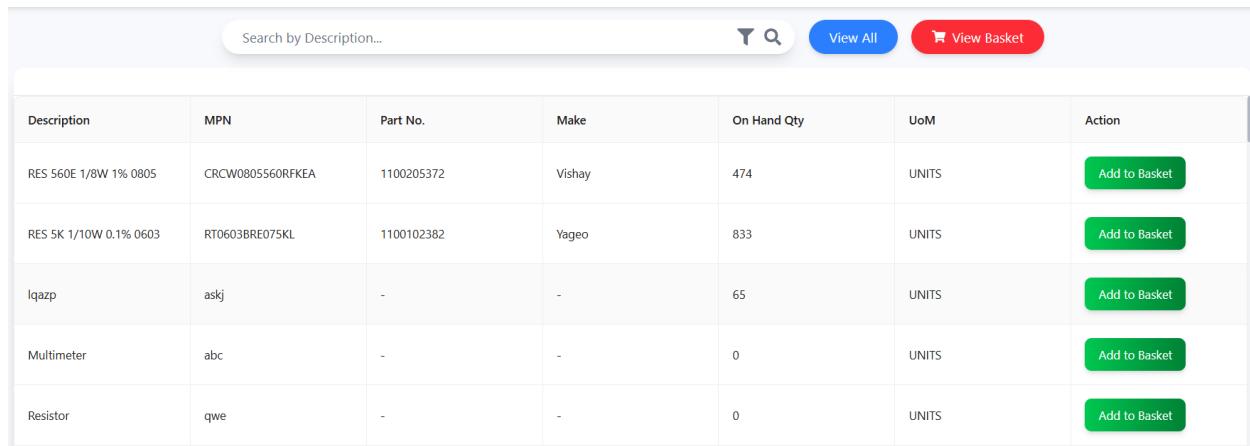
- **Issue:** In the filter section, searching by part number is not returning results, even when components with the same part number exist in the components list.
- **Expected Behavior:** The filter should correctly display components that match the entered part number.

ACCELOR						
1100205372				View All	View Basket	
Failed to fetch search results. Please try again.						
Description	MPN	Part No.	Make	On Hand Qty	UoM	Action

Fig 3.1.3: Part Number filtration is not working.

3.2 Components Section

- **Issue 1:** In the basket section, there is no checkbox to allow multiple selection of components.
Expected Behavior: Users should be able to select multiple components at once for easier addition to the basket.
- **Issue 2:** Every time the “Add to Basket” button is clicked, an alert appears that must be acknowledged by clicking “OK.”
Impact: If a user needs to add 20 components, they must click “OK” 20 times, which is inefficient.
Expected Behavior: Implement a “toastify alert” or similar non-intrusive notification for a smoother user experience.
- **Issue 3:** When adding components (e.g., the last or second-last element), the page refreshes and resets the scroll position.
Impact: Users must scroll back to the desired position, which is inconvenient.
Expected Behavior: The page should maintain scroll position or allow adding items without refreshing the page.



The screenshot shows a user interface for searching and managing components. At the top, there is a search bar labeled "Search by Description..." with a magnifying glass icon, and two buttons: "View All" (blue) and "View Basket" (red). Below the search bar is a table with the following columns: Description, MPN, Part No., Make, On Hand Qty, UoM, and Action. The table contains six rows of data, each with a green "Add to Basket" button in the Action column. The data is as follows:

Description	MPN	Part No.	Make	On Hand Qty	UoM	Action
RES 560E 1/8W 1% 0805	CRCW0805560RFKEA	1100205372	Vishay	474	UNITS	<button>Add to Basket</button>
RES 5K 1/10W 0.1% 0603	RT0603BRE075KL	1100102382	Yageo	833	UNITS	<button>Add to Basket</button>
lqazp	askj	-	-	65	UNITS	<button>Add to Basket</button>
Multimeter	abc	-	-	0	UNITS	<button>Add to Basket</button>
Resistor	qwe	-	-	0	UNITS	<button>Add to Basket</button>

Fig 3.1.1: Checkbox for better selection and increase user experience.

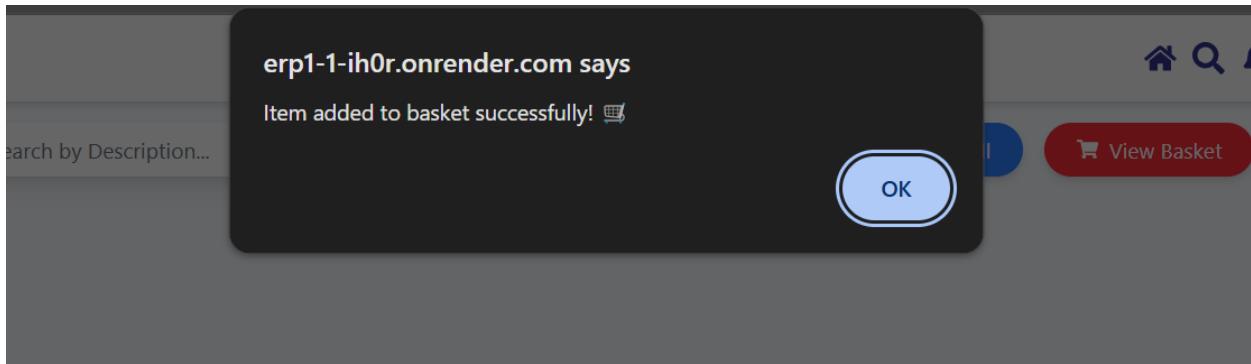


Fig 3.1.2: On every selection there should not be alert, it increases manual interaction.

- **Issue:** The components list currently displays all items on a single page, making it difficult to read and navigate.
- **Impact:** With 2,700 components in the inventory, displaying everything at once is overwhelming and reduces usability.
- **Expected Behavior:** Implement pagination and sub-sections for components to improve readability and make navigation easier.

3.3 Basket MIF / MRF Form

- **Issue 1:** Once a Project Name is entered, it cannot be deleted users can only replace it with another name.
- **Expected Behavior:** Users should be able to clear or remove the Project Name if needed, not just replace it.
- **Issue 2:** In the MIF & MRF forms, there is no option to select multiple rows for performing batch operations (Delete).
- **Expected Behavior:** Implement checkboxes to allow selecting multiple rows and performing actions on them simultaneously, improving efficiency.

User Material Issue Form							Material Request Form										
S.No	Description	MPN	Part No	Make	UoM	On-Hand Qty	Requested Qty (For Issuing)	Reason	Date: 2026-01-19 09:36:07	A2 System	A1 System	A2 System	M1 System	M2 System	Date: 2026-01-19 09:36:07	A2 System	MRF NO.
1	RES SK 1/10W 0.1% 0603	RT0603BRE075KL	1100102362	Yageo	UNITS	832	832	By		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2	RES S40E 1/BW 1% 0805	CRCW080560RPFKA	1102020372	Vishay	UNITS	473	473	500		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Fig 3.3.1: Non-Editable project name.

- **Issue:** After submitting the Material Issue Form for HOD approval, the form number is not retained or displayed correctly.
- **Expected Behavior:** The form number should be visible and correctly associated with the submitted form for tracking and reference purposes.

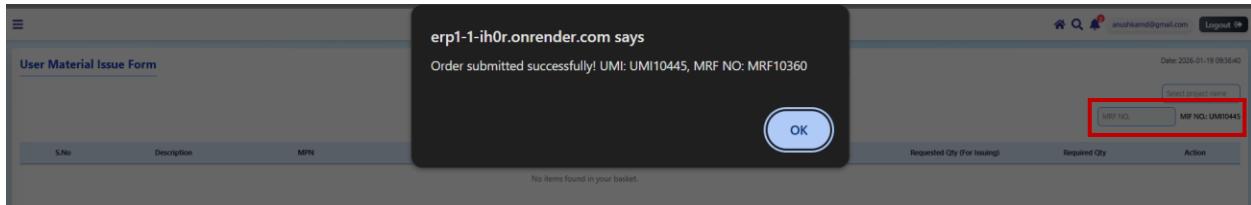


Fig 3.3.2: Misplace Material Request form number.

- **Issue:** There is no option for employees to edit a request form after submission but before HOD approval.
- **Expected Behavior:** An **Edit** button should be available, allowing employees to modify the form before it is approved by the HOD, ensuring accuracy and flexibility.

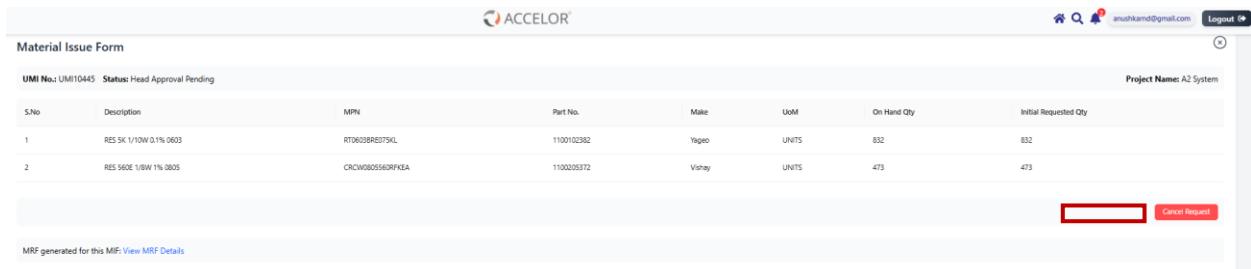


Fig 3.3.3: Edit button for accuracy and flexibility.

- **Issue:** Employees can add the same component multiple times in the MIF form, which allows generating multiple MRF forms for the same component unnecessarily.
- **Impact:** This can lead to duplicate requests, incorrect inventory allocation, and potential errors in stock management.
- **Expected Behavior:** The system should prevent adding the same component multiple times in the MIF form or warning the user to avoid duplicates.

User Material Issue Form

S.No	Description	MPN	Part No	Make	UoM	On-Hand Qty	Requested Qty (For Issuing)	Required Qty	Action
1	RES 560E 1/BW 1% 0805	CRCW0805560RFKEA	1100205372	Vishay	UNITS	474	474	1776	<input type="button" value="Delete"/>
2	RES 560E 1/BW 1% 0805	CRCW0805560RFKEA	1100205372	Vishay	UNITS	474	474	7657	<input type="button" value="Delete"/>
3	RES 560E 1/BW 1% 0805	CRCW0805560RFKEA	1100205372	Vishay	UNITS	474	474	7634	<input type="button" value="Delete"/>

Material Request Form

S.No	Description	MPN	Part No	Make	Requested Qty	Vendor Details	Action
1	RES 560E 1/BW 1% 0805	CRCW0805560RFKEA	1100205372	Vishay	1729	<input type="button" value="+"/>	<input type="button" value="Delete"/>
2	RES 560E 1/BW 1% 0805	CRCW0805560RFKEA	1100205372	Vishay	7609	<input type="button" value="+"/>	<input type="button" value="Delete"/>
3	RES 560E 1/BW 1% 0805	CRCW0805560RFKEA	1100205372	Vishay	7165	<input type="button" value="+"/>	<input type="button" value="Delete"/>

Fig 3.3.4: Any component can be added any number of times.

3.4 Return Form

- Issue:** After the request is approved by inventory, the employee can see the status as “**Receiving Pending**.” However, the **Reject** button is not functioning when clicked.
- Expected Behavior:** The employee should be able to successfully reject the request by clicking the **Reject** button, and the system should update the request status accordingly.

Material Issue Form

S.No	Description	MPN	Part No.	Make	UoM	On Hand Qty	Initial Requested Qty	Head Requested Qty	Issued Qty	Received Qty	Inventory Remark
1	RES 60K4 1/10W 1% 0603	WR06X6042FTL	1100100849	-	Units	4910	800	800	80	80	Itne se hi kaam chlao
2	RES 130K 1/BW 1% 0805	CRCW0805130KFKEA	1100200569	-	Units	426	430	430	4	4	That's enough
3	RES 510K 1/BW 1% 0805	CRCW0805510KFKEA	1100201889	Vishay	UNITS	0	486	486	486	486	

Approve **Reject**

Fig3.4.1: Reject button is not working.

4. HOD Module

4.1 MIF/MRF

- Issue:** The Material Issue Form displays the time according to UTC instead of the local Kolkata time zone.
- Expected Behavior:** The form should display the correct local time (Kolkata time) to ensure accurate record-keeping and avoid confusion.

Material Issue Approval						
UMI No.	Date	Project Name	MRF No.	Requested By	Status	Priority
UMI10445	19-01-26 15:06:33	A2 System	MRF10360	Anushka	Head Approval Pending	
UMI10441	17-01-26 21:49:59	N/A	No MRF	Mamta	Head Approval Pending	

Fig 4.1.1: Wrong Time

- Issue:** When an employee requests a quantity (e.g., 500 units) if any updates made by the HOD to the requested quantity are **not reflected in the MRF**.
- Impact:** This causes incorrect calculations and inaccurate total quantities. For example, if the on-hand quantity is 492 and the requested quantity is updated by HOD, the MRF does not sync with the updated request, leading to discrepancies.
- Expected Behavior:** Changes made by the HOD to the requested quantity should automatically update the MRF to ensure consistency and accurate totals across the system.

Material Issue Form							Material Request Form												
UMI No.: UMI10445 Department: md Status: Head Approval Pending							MRF No.: MRF10361 Department: md Status: Head Approval Pending												
S.No	Description	MPN	Part No	Make	UoM	On Hand Qty	Initial Requested Qty	Updated Requested Qty	S.No	Description	MPN	Part No	Make	UoM	On Hand Qty	Initial Requested Qty	Updated Requested Qty	Total Qty	Remark
1	RES 120E 1/10W 1% 0603	CRCW0603120RPKEA	1100104352	N/A	Units	4835	10	10	1	RES 270E 1% 1/10W 0603	CRCW0603270RPKEA	1100104726	N/A	Units	492	8	492	984	Add your... Required
2	RES 270E 1% 1/10W 0603	CRCW0603270RPKEA	1100104726	N/A	Units	492	492	492											

Fig 4.1.2: Wrong calculations on Total uantity

- Issue 1:** HOD is unable to reject the MRF form; attempting to do so results in an error.
- Expected Behavior:** HOD should be able to approve or reject MRF forms without errors.
- Issue 2:** When there are multiple components (2-3 or more) in an MIF/MRF form, HOD cannot remove specific components from the form.

- **Expected Behavior:** HOD should be able to selectively remove components from the form if needed.
- **Issue 3:** Even when the MRF form is generated indicating that the on-hand quantity is zero, the form still displays a non-zero on-hand quantity.
- **Expected Behavior:** The on-hand quantity in the MRF form should accurately reflect the actual stock available.

The screenshot shows a modal window with a red border containing the text "erp1-1-ih0r.onrender.com says" and "Failed to reject MRF request: Request failed with status code 400". Below the modal is a table representing a Material Request Form (MRF). The table has columns for S.No, Description, MPN, Part No, Make, UoM, On Hand Qty, Initial Requested Qty, Updated Requested Qty, and Remark. One row is visible with the following data: S.No 1, Description RES 270E 1% 1/10W 0603, MPN CRCW0603270RFKEA, Part No 1100104726, Make N/A, UoM Units, On Hand Qty 492, Initial Requested Qty 8, Updated Requested Qty 492, and Remark "Add you... Required!". An "OK" button is centered below the modal.

S.No	Description	MPN	Part No	Make	UoM	On Hand Qty	Initial Requested Qty	Updated Requested Qty	Remark
1	RES 270E 1% 1/10W 0603	CRCW0603270RFKEA	1100105352	N/A	Units	4835	10	10	-

Fig 4.1.3: HOD cannot Reject MRF separately.

- **Issue:** HOD has the right to update the requested quantity. When the HOD decreases the requested quantity so that it falls within the available on-hand quantity, the MRF form **should automatically be close**. However, currently, the form remains open and must still be process manually because it was already initialized.
- **Expected Behavior:** The MRF form should automatically close or mark as completed if the updated requested quantity is within the available stock, reducing unnecessary manual processing.

The screenshot shows two overlapping forms. The top form is titled "Material Request Form" and the bottom form is titled "Material Issue Form". Both forms have red borders around their tables. The "Material Request Form" table has columns for S.No, Description, MPN, Part No, Make, UoM, On Hand Qty, Initial Requested Qty, Updated Requested Qty, and Remark. One row is visible with the following data: S.No 1, Description RES 270E 1% 1/10W 0603, MPN CRCW0603270RFKEA, Part No 1100104726, Make N/A, UoM Units, On Hand Qty 492, Initial Requested Qty 8, Updated Requested Qty 2, and Remark "Add you... Required!". The "Material Issue Form" table has columns for S.No, Description, MPN, Part No, Make, UoM, On Hand Qty, Initial Requested Qty, Updated Requested Qty, and Remark. Two rows are visible: Row 1 with S.No 1, Description RES 270E 1% 1/10W 0603, MPN CRCW0603270RFKEA, Part No 1100105352, Make N/A, UoM Units, On Hand Qty 4835, Initial Requested Qty 10, Updated Requested Qty 10, and Remark "-"; Row 2 with S.No 2, Description RES 270E 1% 1/10W 0603, MPN CRCW0603270RFKEA, Part No 1100104726, Make N/A, UoM Units, On Hand Qty 492, Initial Requested Qty 492, Updated Requested Qty 492, and Remark "Its enough". A blue bar at the bottom of the "Material Request Form" says "MRF Preview Changes".

S.No	Description	MPN	Part No	Make	UoM	On Hand Qty	Initial Requested Qty	Updated Requested Qty	Remark
1	RES 270E 1% 1/10W 0603	CRCW0603270RFKEA	1100105352	N/A	Units	4835	10	10	-

S.No	Description	MPN	Part No	Make	UoM	On Hand Qty	Initial Requested Qty	Updated Requested Qty	Vendor Details	Updated Requested Qty	Total Qty	Remark
1	RES 270E 1% 1/10W 0603	CRCW0603270RFKEA	1100104726	N/A	Units	492	8	2		4	4	Add you... Required!

Fig 4.1.4: Requested quantity is less than on hand quantity still mrf is generated.

- **Issue:** Role-based access control is not functioning correctly in the MRF workflow.
 - When HOD accesses the MRF page, it shows **Head Approval pending**, followed by **Inventory Approval** and **Purchase Approval** steps.

2. Currently, the HOD can approve all subsequent steps—including Inventory, Purchase, and even CEO approval—**bypassing the intended workflow and roles**. This allows a single HOD user to approve requests that should require higher-level authorizations, which is a serious violation of RBAC.
 3. Additionally, if the HOD rejects the MIF form, the corresponding MRF form **remains active**, whereas it should automatically be rejected along with the MIF form.
- **Impact:**
 - Breaks the intended approval hierarchy.
 - Allows unauthorized approvals at multiple levels, potentially causing incorrect or fraudulent data entry.
 - Violates RBAC rules, compromising the integrity of the ERP system.
 - **Expected Behavior:**
 - Each approval step should be restricted to the respective role only (HOD → Inventory → Purchase → CEO).
 - HOD approval should **not** affect steps meant for Inventory, Purchase, or CEO.
 - If the MIF form is rejected, the corresponding MRF form should also be automatically rejected.
 - **Severity:** Critical (High risk due to RBAC violation and workflow bypass).

Material Request Form

MRF No.:	MRF10354		Project Name:		N/A							
Department:	md		Requested By:		Anushka							
Select All	S.No	Description	MPN	Part No	Make	UoM	On Hand Qty	Initial Requested Qty	Updated Requested Qty	Vendor Details	Status	Note
<input type="checkbox"/>	1	RES 560E 1/BW 1% 0805	CRCW0805560RFKEA	1100205372	Vishay	UNITS	474	33	33	<div style="border: 1px solid #ccc; padding: 2px;">Vendor Name: Select or type Vendor</div> <div style="border: 1px solid #ccc; padding: 2px;">Vendor Link: Enter Vendor Link</div> <div style="border: 1px solid #ccc; padding: 2px;">Expected Delivery Date: Select Delivery Date</div> <div style="border: 1px solid #ccc; padding: 2px;">CoC Required: No</div>	Head Approval Pending	Add note...

P Approve Selected Reject Selected

Material Request Form

MRF No.:	MRF10362		Project Name:		N/A								
Department:	md		Requested By:		Manita								
Select All	S.No	Description	MPN	Part No	Make	UoM	On Hand Qty	Initial Requested Qty	Updated Requested Qty	Vendor Details	Status	Quantity Change History	Note
<input type="checkbox"/>	1	RES 82K 1/10W 1% 0603	CRCW060382K0FKEA	1100103003	N/A	Units	371	19	1	<div style="border: 1px solid #ccc; padding: 2px;">Vendor Name: Select or type Vendor</div> <div style="border: 1px solid #ccc; padding: 2px;">Vendor Link: Enter Vendor Link</div> <div style="border: 1px solid #ccc; padding: 2px;">Expected Delivery Date: Select Delivery Date</div> <div style="border: 1px solid #ccc; padding: 2px;">CoC Required: No</div>	Inventory Approval Pending	19-01-26 12:36. Mukhinder Singh : 19 to 1	Add note...

P Approve Selected Reject Selected

Material Request Form

MRF No.:	MRF10362		Project Name:		N/A								
Department:	md		Requested By:		Manita								
Select All	S.No	Description	MPN	Part No	Make	UoM	On Hand Qty	Initial Requested Qty	Updated Requested Qty	Vendor Details	Status	Quantity Change History	Note
<input type="checkbox"/>	1	RES 82K 1/10W 1% 0603	CRCW060382K0FKEA	1100103003	N/A	Units	371	19	10	<div style="border: 1px solid #ccc; padding: 2px;">Vendor Name: Select or type Vendor</div> <div style="border: 1px solid #ccc; padding: 2px;">Vendor Link: Enter Vendor Link</div> <div style="border: 1px solid #ccc; padding: 2px;">Expected Delivery Date: Select Delivery Date</div> <div style="border: 1px solid #ccc; padding: 2px;">CoC Required: No</div>	Purchase Approval Pending	19-01-26 12:36. Mukhinder Singh : 19 to 1 19-01-26 12:36. Mukhinder Singh : 1 to 10	Add note...

P Approve Selected Reject Selected

Material Request Form

MRF No.:	MRF10362		Project Name:		N/A								
Department:	md		Requested By:		Manita								
Select All	S.No	Description	MPN	Part No	Make	UoM	On Hand Qty	Initial Requested Qty	Updated Requested Qty	Vendor Details	Status	Quantity Change History	Note
<input type="checkbox"/>	1	RES 82K 1/10W 1% 0603	CRCW060382K0FKEA	1100103003	N/A	Units	371	19	1	<div style="border: 1px solid #ccc; padding: 2px;">Vendor Name: Select or type Vendor</div> <div style="border: 1px solid #ccc; padding: 2px;">Vendor Link: Enter Vendor Link</div> <div style="border: 1px solid #ccc; padding: 2px;">Expected Delivery Date: Select Delivery Date</div> <div style="border: 1px solid #ccc; padding: 2px;">CoC Required: No</div>	CEO Approval Done	19-01-26 12:36. Mukhinder Singh : 1 to 1 19-01-26 12:36. Mukhinder Singh : 10 to 11 19-01-26 12:40. Mukhinder Singh : 11 to 1	Add note...

4.2 MIF Request by HOD

- **Issue:** Once the request is generated by the HOD, he is unable to cancel or update his own request.
- **Expected Behavior:** HOD should be able to cancel or update his own request before it is processed or approved, in accordance with the defined workflow rules.

The screenshot shows a web-based application for managing material issues. At the top, there is a header with the ACCELOR logo, user information (md@gmail.com), and a logout button. Below the header, the title 'Material Issue Form' is displayed. Underneath, there is a table with one row containing the following data:

S.No	Description	MPN	Part No.	UoM	On Hand Qty	Initial Requested Qty	Head Requested Qty
1	RES 82K 1/10W 1% 0603	CRCW060382K0FKEA	1100103003	Units	371	371	371

Fig 4.2.1: Request reject button is missing.

4.3 Acceptance of MIF Form

- **Issue:** Once a request is initiated by an employee containing multiple components (e.g., 3–4 components), the HOD is unable to proceed with only selected components from the request. Partial approval is not supported.

Additionally, after HOD approval, the inventory user can view the request; however, if only some of the requested components are available in inventory (e.g., 2 out of 4 components), there is no option to issue or assign only the available items. The inventory user is required to accept the entire request.

- **Expected Behavior:** The system should allow HOD to approve or proceed with selected components from the request rather than requiring full approval.

Similarly, the inventory user should be able to issue or assign available components partially, and the system should update the request status accordingly for the remaining items.

Material Issue Form



UMI No.: UMI10446

MRF Details are attached, kindly view it using the View MRF Button

Project Name: N/A

MRF No.: MRF10361

Requested By: Anushka

Department: rmd

Status: Inventory Approval Pending

S.No	Description	MPN	Part No	Make	UoM	On Hand Qty	Location	Initial Requested Qty	Updated Requested Qty	MRR No	Issued Qty	Head's Remark
1	RES 270E 1% 1/10W 0603	CRCW0603270RFKEA	1100104726	N/A	Units	492	N/A	492	2	No MRR options available	2	Its enough
2	RES 120E 1/10W 1% 0603	CRCW0603120RFKEA	1100105352	N/A	Units	4835	N/A	10	10	No MRR options available	10	N/A

[View MRF Details](#)

Notes

No notes added yet.

[+ Add a Line](#)



Approve

Reject

Fig 4.3.1: Issue selected items from inventory