Invoice Page

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Project Overview:

The objective of this project is to develop and implement a comprehensive invoice management module within the procurement system. This module will facilitate efficient handling of invoices, provide real-time visibility into invoice status, and support necessary actions such as adding, viewing, and processing invoices.

Develop and implement an invoice management module within the procurement system, enabling efficient handling of invoices, status tracking, and essential actions like addition, viewing, and payment initiation.

Functional Requirements:

Invoice Page:

- Users accessing the Invoice page encounter a comprehensive interface tailored for streamlined invoice management.
- The page design emphasizes easy navigation and quick access to essential functionalities.
- Structured layout facilitates efficient handling of invoices within the system.

Invoice Status Dropdown:

- Feature:
 - Dropdown for filtering invoices based on status.
 - Options: All, Closed, Approved, Rejected.
 - Functionality: Display invoices matching the selected status.

Invoice Addition:

- Feature: Ability to add new invoices manually or upload invoice documents.
 - Supported invoice types:
 - 1. Direct Invoice
 - 2. Invoice from GRN (Goods Receipt Note)
 - 3. Invoice from IB (Integrated Business System)

Invoice Listing:

- Feature: Display all invoices on a dedicated page.
 - Display format: Table with columns:
 - Invoice Number
 - Date
 - Supplier Name
 - Buyer Name
 - Item Specifics
 - Quantity
 - Actions
 - Sorting: Ascending or descending order based on relevant parameters.

Invoice Actions:

- Feature: Enable actions on individual invoices.
 - Examples: View detailed information, initiate payment processes.
 - Access: Hyperlinks on the invoice listing page.
 - On Clicking Supplier Invoice Number we are redirecting to invoice View page only.
 - Same goes for PO Number also.
 - We are also providing a separate view payment button for redirecting to invoice view page only.
 - Now they can See the Full details which I have mentioned in Invoice view.

Invoice Search:

- Feature: Implement search functionality for locating specific invoices.
 - Search criteria: Invoice Number, Vendor, PO Number, Supplier Invoice Number.

Invoice View:

Invoice Details:

- **Invoice Number:** [Invoice Number]
- **Invoice Date:** [Invoice Date]

Buyer Details:

• **Billing Address:** [Billing Address]

Supplier Details:

- **Name:** [Supplier Name]
- **GST Number:** [Supplier GST Number]
- **PAN Number:** [Supplier PAN Number]
- **Address:** [Supplier Address]

Invoice Documents:

- Invoice Documents:
 - [Document 1 Name] ([Download Document])
 - [Document 2 Name] ([Download Document])
 - ..

List of Items:

- **PO Item ID:** [PO Item ID] ([Item Listing Page])
 - Redirect you to a Item Listing page
- **Item/Service Name:** [Item/Service Name] ([Item Listing Page])
- **Description:** [Item Description]
- **Delivery Address:** [Delivery Address]
- **PO Price (INR):** [PO Price]
- **Supplier Invoice No.:** [Supplier Invoice Number]
- **Supplier Invoice Date:** [Supplier Invoice Date]
- **PO No.:** [PO Number]
- With Hold Tax Id: [With Hold Tax ID]
- With Hold Tax Value: [With Hold Tax Value]
- **Billing State:** [Billing State]
- **Supplier State:** [Supplier State]
- **Vendor Code:** [Vendor Code]
- **Dispatched Qty.:** [Dispatched Quantity]
- **Accepted Qty.:** [Accepted Quantity]
- **Invoice Item Price (INR):** [Invoice Item Price]
- **Base Price (INR):** [Base Price]
- **Tax Price (INR):** [Tax Price]
- **Total Price (INR):** [Total Price]

Comments:

- **Approver Comments:** [Approver Comments]
- **Creator Comments:** [Creator Comments]

Goods Receipt Note (GRN) Details:

- **GRN ID:** [GRN ID] ([GRN Listing Page])
- **GRN/SRN Invoice Documents:** [Download GRN/SRN Invoice Documents]

Total Invoice Amount:

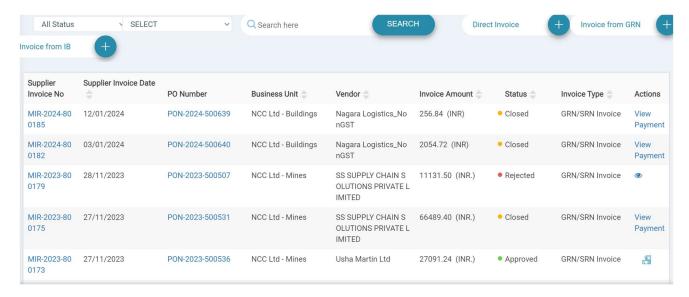
• **Total Invoice Amount (INR):** [Total Invoice Amount]

Project Deliverables:

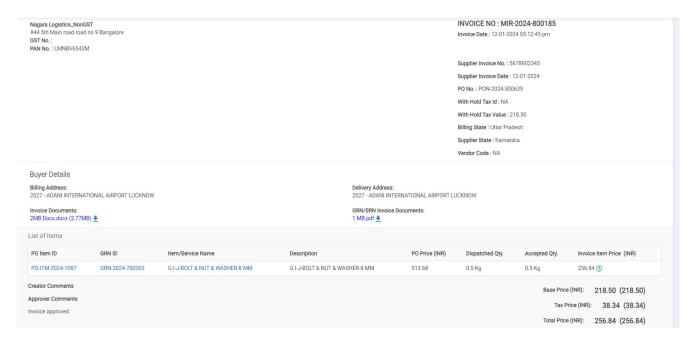
Frontend UI: React Js, Redux, Bootstrap

Screen:

1. A dashboard displaying the list of Invoice Page and Actions where we can perform



2. A portal displaying the invoice view page, tailored to show the invoice details based on the selected invoice's identity or criteria.1



Backend Tasks:

Database Schema:

 Design and implement a database schema to show all invoice details based on their Invoice number and PO number.

API Endpoints:

- Create API endpoints for retrieving invoice details, and Viewing the particular Invoice.
- Implement API endpoints for filtering payments based on various parameters which is used in Search Bar.

Validation Logic:

- Implement validation logic for fields such as Supplier Invoice number,PO number and other mandatory fields on the backend.
- Validate data before storing it in the database.
- Validate data types, length, and format in the frontend to reduce unnecessary server requests.

Implement validation for Search Bar:

- Ensure the data given to search bar will be based on keys which are uniquely identified in master table.
- Validate before giving it to search bar to avoid error.

Database Operations:

- Implement logic to view Invoice page of correct invoice based on Whose View it is Clicked.
- Connect frontend components to corresponding backend API endpoints.
- Implement functionality to export all Invoice details.

Error Handling:

 Implement error handling for various scenarios, such as invalid data input or database errors.

Task Breakdown:

1. Frontend Implementation:

- Develop UI for Invoice Page using React Js, Redux, and Bootstrap.
- Design a dashboard to display the list of invoices with actions for efficient management.

2. Portal for Invoice View Page:

- Create a portal to display detailed invoice views based on selected criteria.
- Tailor the view to show specific invoice details like Invoice Number, Buyer Details, Supplier Details, Invoice Documents, List of Items, Comments, GRN Details, and Total Invoice Amount.

3. Database Schema Design:

- Design and implement a database schema to store all invoice details based on their Invoice Number and PO Number.
 - Ensure efficient data organization and retrieval for seamless backend operations.

4. API Endpoint Development:

- Develop API endpoints for retrieving invoice details and viewing a particular invoice.
- Implement filtering functionality for payments based on various parameters for use in the search bar.

5. Validation Logic Implementation:

- Implement validation logic for fields such as Supplier Invoice Number, PO Number, and other mandatory fields on the backend.
 - Validate data before storing it in the database and ensure data integrity.
- Implement frontend validation for data types, length, and format to minimize server requests and enhance user experience.

6. Search Bar Validation and Implementation:

- Validate data before passing it to the search bar to avoid errors.
- Ensure that search bar functionality is based on uniquely identified keys in the master table.

7. Database Operations:

- Implement logic to display the correct invoice page based on whose view it is clicked.
- Connect frontend components to corresponding backend API endpoints for seamless data retrieval and display.
 - Implement functionality to export all invoice details for reporting purposes.

8. Error Handling:

- Implement comprehensive error handling for scenarios such as invalid data input or database errors.
- Ensure that users receive appropriate feedback and guidance in case of errors to maintain system reliability and usability.

9. Unique Identifier Generation Function Implementation:

-Implementing universal functions for generating identifiers across all modules, ensuring distinctiveness, and undergoing review.