**Functional Requirements:**

1. Retro Billing: (Debit Note - Rate Increase)

**Supplier Interaction:**

Click on the "Retro Billing" link in the left navigation.

Download the retro billing template/reference copy.

**Data Handling:**

Work on retro billing offline in the template.

Upload the working sheet to the supplier portal.

Validation Process:

Enter the Dummy S-Invoice no and date for validation.

Click "Validate" after uploading the working sheet.

**Excel File Validations:**

**Create API endpoint for all validations mn**

* Using the records in the database filter out the vendor code, Po number, and Material-old Price. Review each relevant amendment record and identify the old price mentioned in them. Ensure that the old price matches the data entered by the Supplier in the sheet. Same for Quantity, Further check Difference (Spring Boot)
* Retrieve the start date and end date of the amended price period from the database. The Gr Number fetches the corresponding date from the database and checks if the data lies between the amended period.
* The Price entered format should not contain any commas ( i.e., 1**,**23**,**56.567 is incorrect but 123456.57 is correct). To check first remove the comma and then check the valid format ("[\\d+(\\.\\d{1,2})?](file:///\\d+(\\.\\d%7b1,2%7d)%3f)" ) if the number lies in this regex code (Spring boot )
* Check if GST is equal to the PO GST
* Check Invoice number should not contain spaces or any special characters except hyphen (-) and slash (/) and should not be more than 16 characters using regex = "^[\\w\\/-]{1,16}$"
* Supplementary Invoice data format should be dd-mm-yy using the conversion of date to string and using DateTimeFormatter to compare the format

**Validation Results:**

* The system validates fields, displaying errors in the Remarks column.
* Download data for further corrective action.

**Error Correction:**

* Eliminate or correct errors based on remarks.
* Upload the updated file for verification.

**Supplementary Invoice Submission:**

* Update the Excel file with the Original S-invoice no and date.
* Click "Submit Supplementary Invoice" after successful correction.
* Read and accept the disclaimer.
* Success Message:

Display relevant success messages upon successful data upload.

**2. Varroc User Interaction**

Varroc User Dashboard:

* View the list of supplementary invoices submitted by suppliers.

Differentiate between "New," "In-Process," and "Pass" statuses.

**Output Screen Statuses:**

**Status=New:**

View the attachment and export it to Excel or SAP format.

**Status=In-Process/Pass:**

* Updates from "New to In-Process" and later to "Pass" after SAP response.
* Export To SAP Format:
* Reference, Invoice date, Posting date, Text, PO No, Line item, Material code, Plant.
* Amount, Quantity, Tax code, Doc Type, Assignment, Header Text, Gross Amount.

3. Retro Billing: (Credit Note - Rate Decrease)

* Varroc team raises a Debit note for a rate decrease.
* Details sent to the vendor, are displayed in the credit note tab.

4. Invoice Document Management

* CAP team functionality to view GRN documents and attachments.
* Upload invoice documents for reference, related to GRN posted directly in SAP.

**Execution Requirements:**

**Retro Billing Module:**

* Develop user-friendly interfaces for suppliers.
* Implement sections for data upload, validation, error correction, and submission.

**Varroc User Dashboard:**

* Create a dashboard for Varroc users to manage and view supplementary invoices.

**Credit Note Integration:**

* Integrate credit note details into Varroc user interface.
* Display relevant information in the credit note tab.

**Attachment Handling:**

* Develop APIs for viewing/downloading attachments.
* APIs for exporting data to Excel or SAP format.

**Invoice Document Management UI:**

* Interface for CAP team to view GRN documents and attachments.
* Enable uploading of invoice documents for reference.

**Overall Styling and Responsiveness:**

* Ensure cohesive design and responsiveness across devices.

**Integration with Backend APIs:**

* Connect frontend components with backend APIs for seamless data flow.
* This project aims to streamline the retro supplementary invoice process, providing a robust interface for suppliers and Varroc users while ensuring accurate data validation and efficient document management.