

CITI BRIGE PROGRAM

Clearing Feed Generation

TEAM 18

TEAM MEMBERS

Janhavi Pandey

Shruti Surve

Shraddha Sahane

Bansi Sapariya

Mruga Gokhale

MENTOR

Vaishnavi Iyer

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It gives the immense pleasure in presenting the project report on

“Clearing Feed Generation”

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Problem Statement:

Generate the feed file towards clearing system in a specific format based on the input transactions to the system.

Clearing Feed System:

A clearing feed system acts as an intermediary that oversees transaction between payer and payee from bank-A to bank-B and generates a feed file indicating whether or not the transaction is valid.

Some of the key benefits of the system include the increase in the efficiency.

Technologies used:

Back-end:

SPRING-BOOT :- Spring Boot is an open-source micro framework . It provides Java developers with a platform to get started with an auto configurable production-grade Spring application.

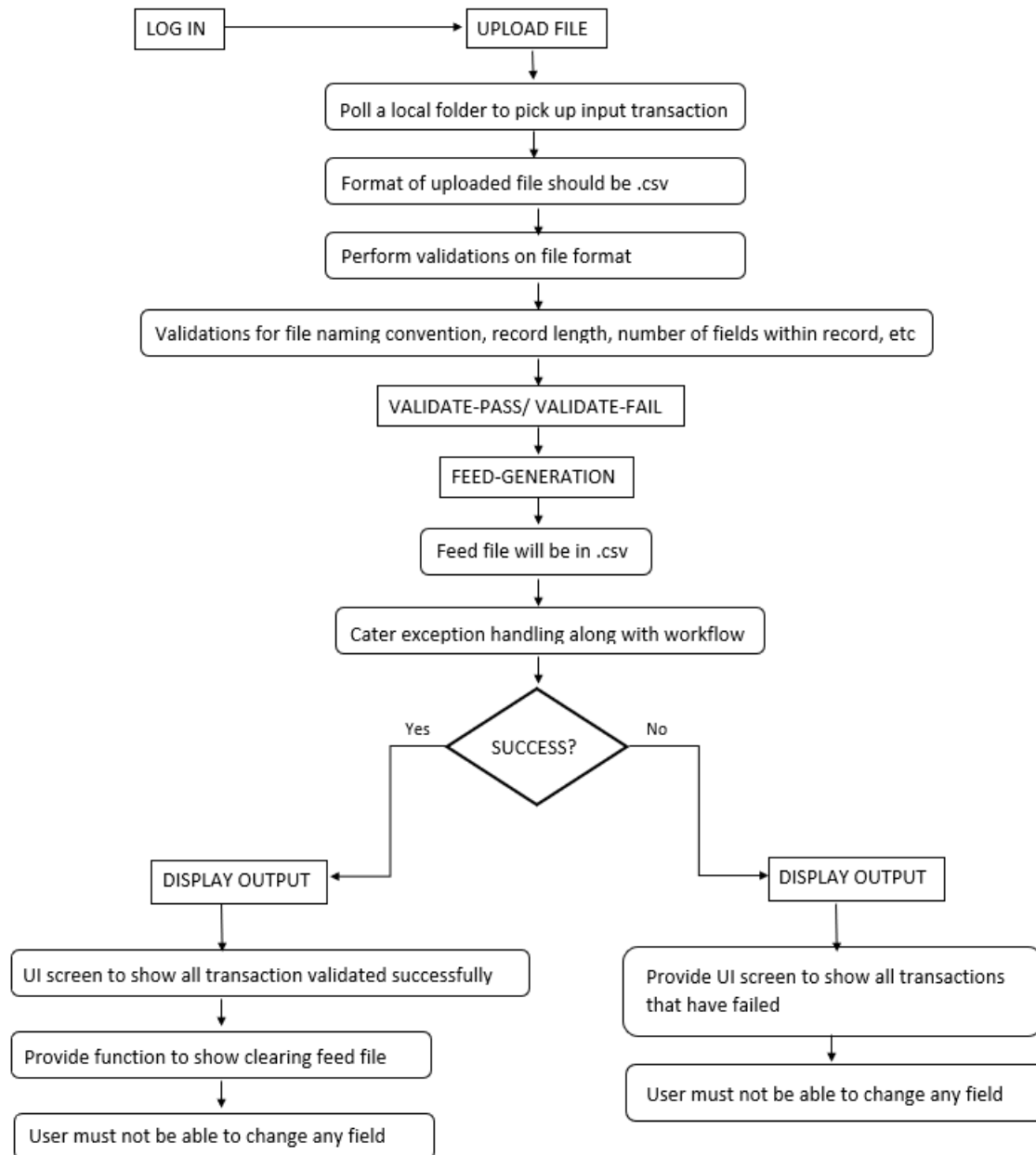
Front-end:

HTML :- HTML is used to create electronic documents (called pages) that are displayed on the World Wide Web. HTML code ensures the proper formatting of text and images for your Internet browser. Without HTML, a browser would not know how to display text as elements or load images or other elements.

CSS :- CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based markup language.

JAVASCRIPT:- JavaScript is a text-based programming language used both on the client-side and server-side that allows you to make web pages interactive. Where HTML and CSS are languages that give structure and style to web pages, JavaScript gives web pages interactive elements that engage a user.

Flow Diagram



Functionalities developed till date :

1. Selected file from local folder which is in the form of CSV format. CSV files store data in a structure that can be used (read and written to) by a range of different spreadsheet software packages. It is used to store tabular data, such as a spreadsheet or database. Since they're plain text, they're easier to import into a spreadsheet or another storage database, regardless of the specific software you're using
2. After importing the file in CSV format, validation of every transaction is done. In validation , it checks whether the transaction reference is alphanumeric and in the valid length. Payer name and payee name should also be in valid length. It also checks whether the date is in proper format. The amount should also have maximum 10 digits and 2 digits after decimal point.
3. After validating each transaction the user will get the count of valid and invalid transactions.

Assumptions :

It is assumed that user is already logged in with the required credentials into the system. The file uploaded from the local folder is in CSV format only . If the file is not in the CSV format , the file will not get uploaded . Also the CSV file should be less than 2 MB.

Future Scope:

1. The multiple file formats can be added. As it will not take time to convert the input file into specific format.
2. Also, the file size can be extended that is no limit on size of the file this will also save the time.
3. Storing the transaction history will be more beneficial because whenever the data will be needed by the user , the system will have it.
4. Sending notification to the stake holder after feed generation will also be useful as stake holder will not require to go to the system and check whether the feed is valid or not.
5. Creating Authentication mechanism for file upload
6. Add report download feature after feed generation
7. Apply cryptographic algorithm for data transfer over the network.

WEBSITE SNAPSHOTS

