

Schreiber Label Comparator

July 24, 2024

OVERVIEW

Schreiber is a global food production and distribution company specializing in dairy products such as cheese, yogurt, and cream. With a presence in several countries, its food division works closely with business partners to offer safe, innovative, and high-quality solutions designed to meet the needs of end consumers.

PROJECT

Conduct proofs of concept for the subsequent development of a system that allows comparing dairy product labels to verify their compliance with official and internal guidelines and proceed with their authorization for printing.

REQUIREMENTS

The solution must be able to analyze a high volume of labels and will verify:

- Font sizes
- Proportion of elements relative to the total label size
- Nutritional content according to FDA standards

PROJECT DELIMITATIONS AND SCOPE

- To perform this automated comparison, Al-based technologies must be implemented.
- Only use Al tools authorized by the client.

DELIVERABLES

- Proof of concept demonstrating feasibility before development
- Results should be presented in a dashboard for user decision-making
- Technical proposal for implementation by development

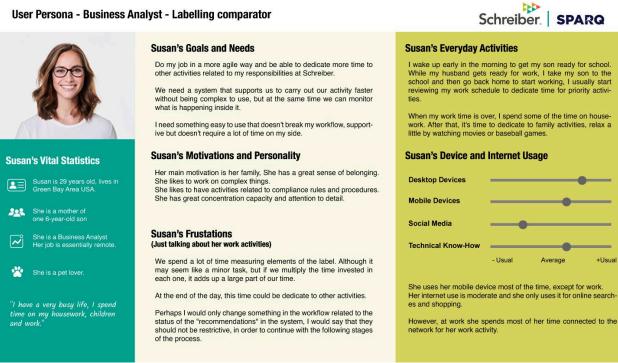
PROCESO DE UX UI

First, I conducted user research to gain more insight into the current tag comparison processes.

These user interviews also serve as the basis for creating user profiles and process maps.

User Persona

User Persona - Business Analyst - Labelling comparator



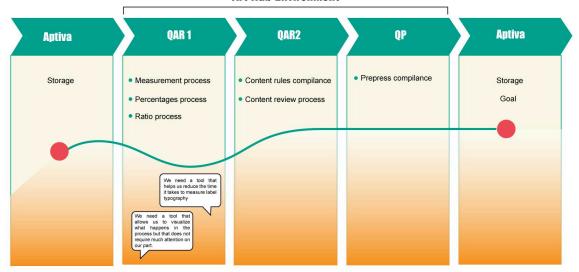
Actual Process to compare labels



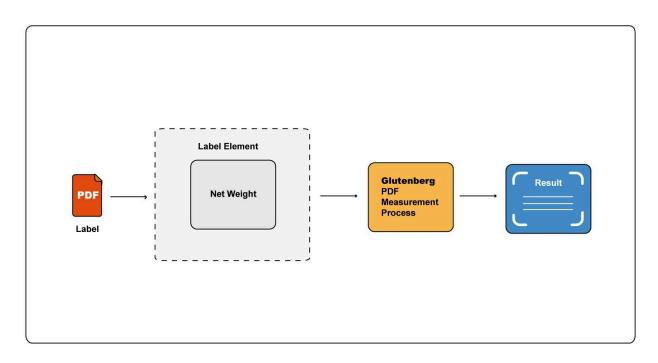
User Journey-Business Analyst-Labelling comparator



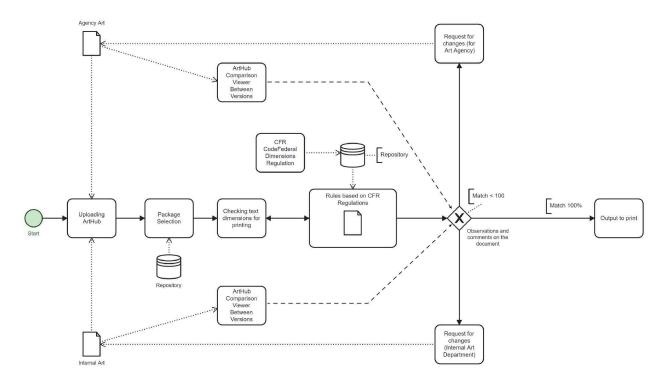
Art Hub Environment



Workflow to be developed



Actual Workflow



Result in Technologies used

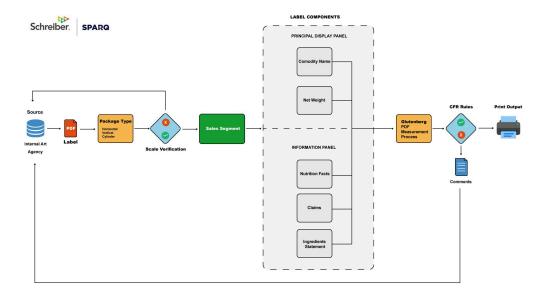
Platforms Analyst-Labelling comparator



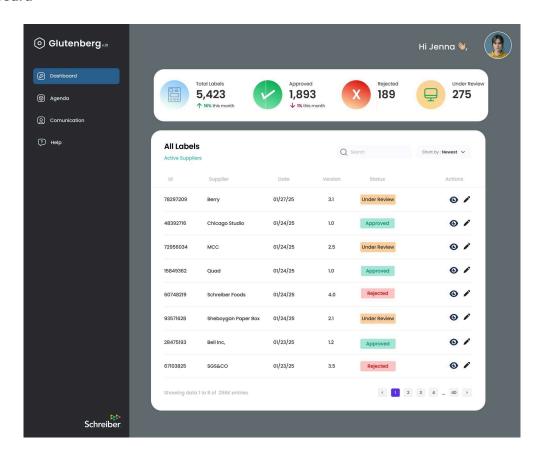
Effectiveness %

		Measurement	Ratio / Percents	Content
Python	Open CV	99.90 %	99.90 %	In progress
Google	Cloud Vision	75.8 %	X Fail	75.8 %
	Document Ai	X Fail	X Fail	75.8 %
	Vertex	75.8 %	No tested	X Fail
Amazon	Rekognition	No tested	No tested	No tested
Microsoft	Azure Ai Vision	In progress	No tested	No tested

Ideal Solution Diagram



Dashboard



Important: This document only presents excerpts from the design process; the final solution is protected by the company for privacy reasons and is not publicly accessible.