The Data Quality Pre-Processing Tool

The User

- They work in a nonspecific industry
- They work with data, but they have low to medium technical proficiency
- They want to simplify data cleaning
- They want a tool which can automatically clean their data.
- They want a user-friendly interface.
- They want a visualization of their data quality
- They want real time feedback
- They want their data to be secure.



Technical problem



Our system frees users to tackle advanced analytics by handling data cleaning.



Crafting a universal data quality tool is challenging due to the requirements of integrating varied data, ensuring accuracy, real-time monitoring, legal compliance, user-friendly interfaces for all, and scalability, all while meeting organizations' unique needs and standards.



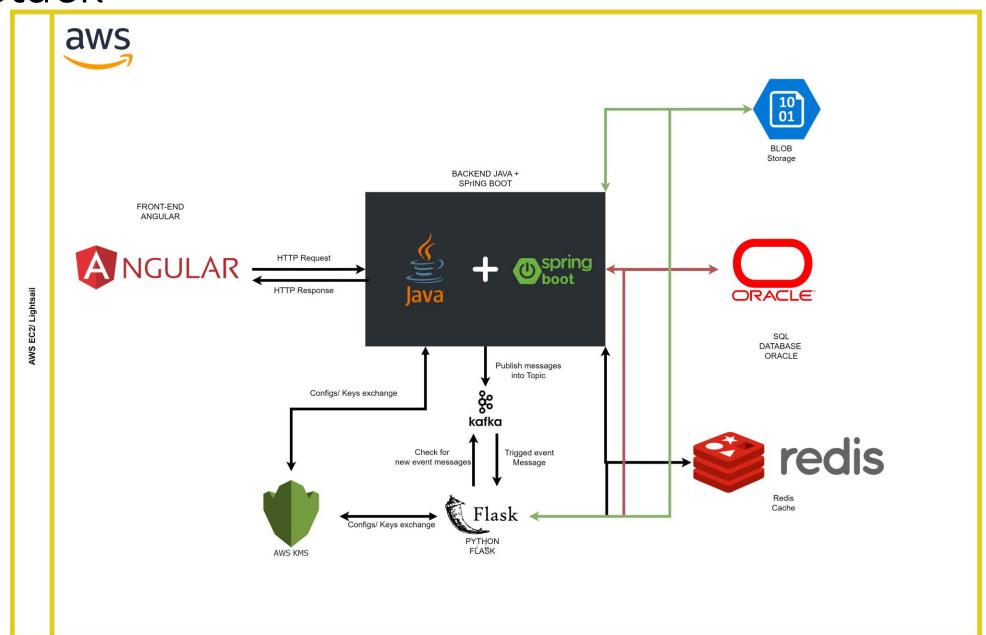
Competing products are outdated and lack the GPT feature for custom data quality rule creation.

Technical solution

 The system ingests data, profiles it to identify issues, and offers users automated correction options. Once cleaned, the data is presented back, and users can query it using the AI feature.



Tech stack



Evaluation



User Feedback: Development considers reviews and suggestions from 20 users to address needs and expectations.



Prototyping & Testing: Wireframes outline application functions, with each release undergoing comprehensive testing, using tools like Postman and UiPath.



Data Quality Assessment: Continuous evaluation of data cleaning algorithms ensures improved data reliability.



Usability Testing: Users evaluate UI and UX to identify and resolve usability issues for intuitive application use.



Performance Monitoring: Key metrics are tracked, and user-reported issues are prioritized for continuous performance improvement

The plan

Weekly Sprint Meeting Schedule							
		Tuesday	Wednesday			Saturday	Sunday
	Monday			Thursday	Friday		
09:							
00							
10:							
00		Daily stand up					
11:							
00	Mentor				Lecture		
12:					Lecture		
00	Sprint						
13:	Planning						
00							
14:							
00					Sprint review		
15:							
00	Bi Weekly All			Bi Weekly	Sprint retrospective		
16:	hands			All hands			
00							
17:							
00							
18:							
00							

• The project will use the agile methodology