

Leveraging Medical Imaging Data for RWE

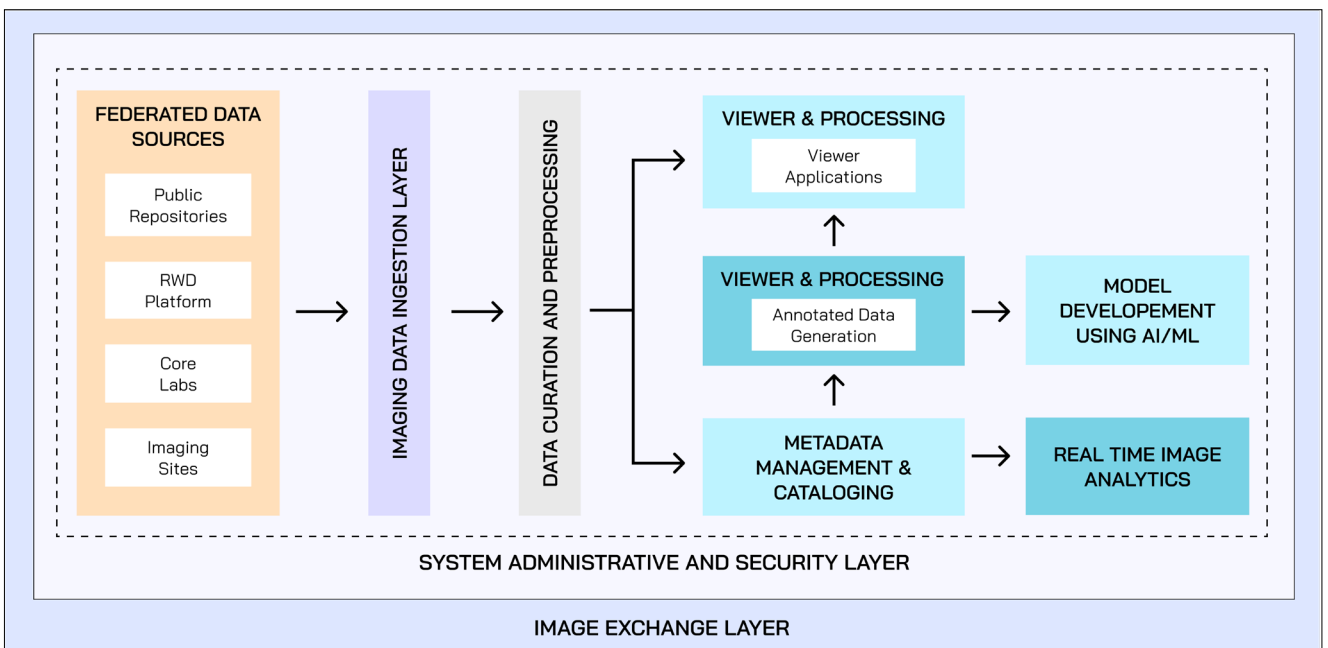
Business Challenge

- The pharmaceutical company, boasting technological prowess in R&D, top-tier drug commercialization, global accessibility, and data science expertise, required CitiusTech to conceive and execute an image management solution.
- This solution was to seamlessly facilitate ingestion, storage, data search, and image annotation within their Real-World Evidence (RWE) data management platform.



- Helped set up an ingestion pipeline for DICOM and non-DICOM native data formats
- Standardized metadata using sponsor defined taxonomy and structured codes
- Performed extraction of metadata from DICOM and non-DICOM images and mapped it to FHIR resources to create a systematic approach to metadata cataloging and management
- Automated the quality control process and de-identified the images and metadata
- Designed UX/UI to facilitate data browsing and viewing
- Orchestrated Radiologist workflow for image access through 3rd party viewer
- Exchanged annotated data internally and externally to build cohort for machine learning

SOLUTION SCHEMATIC



VALUE DELIVERED



Reduced time and effort in acquiring medical imaging data from multiple external real world data sources



Developed an integrated search solution to provide access to relevant imaging information across the enterprise platform



Developed a curated imaging dataset which was leveraged for training machine learning algorithms





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