



Case Study

HEALTHCARE
LIMITLESS

Universal Viewer Hanging Protocol

Our vision is to inspire new possibilities for the health ecosystem with technology and human ingenuity. At CitiusTech, we constantly strive to solve the industry's greatest challenges with technology, creativity, and agility. Together with the world's leading Healthcare and Lifesciences organizations and our partners, we aim to accelerate the transition to a human-first, sustainable, and digital healthcare ecosystem.

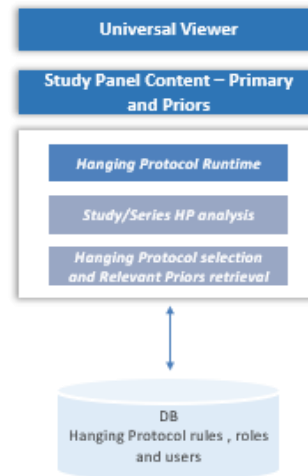
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Client Requirements

- Client is a leading provider of innovative medical imaging and information management software and services.
- User specific Hanging protocol enables radiologists to view and automate certain operations on studies for the initial presentation as per their own preferences
- In order to facilitate it, Client wanted to develop Multi-Steps Hanging protocol sub-system in UV which can be easily configured and distributed across various users of the application
- CitiusTech was selected for this engagement given its strong domain expertise and deep working knowledge of the client's codebase

Solution Schematic



CitiusTech Solution

- Designed & developed multi-steps hanging protocol module to facilitate the reading of a study, and the viewing of its relevant priors, to improve the efficiency and accuracy of the diagnostic review.
- Developed an efficient hanging protocol engine for accurate study assessment and apply the best matched HP from user configured HP list
- Supported layout settings , image level settings (WWL , zoom) , reading preferences(linked scrolling , localizer lines on/off) , series to viewports assignment in HP configuration
- Radiology evaluator is used to define text rule(s) on DICOM tags at Study or Series level that perform basic string or number comparisons. Custom evaluators are also supported for complex evaluations
- Tested application performance to ensure study load time is not impacted by applying HP at runtime

Value Delivered:

- Leveraged CitiusTech's strong domain experience in designing relevant hanging protocol workflows for optimal viewing
- Enabled Universal viewer to present specific type of studies in a consistent manner, and to reduce the number of manual image ordering adjustments performed by the radiologist