

Radiologist Collaboration Platform

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.

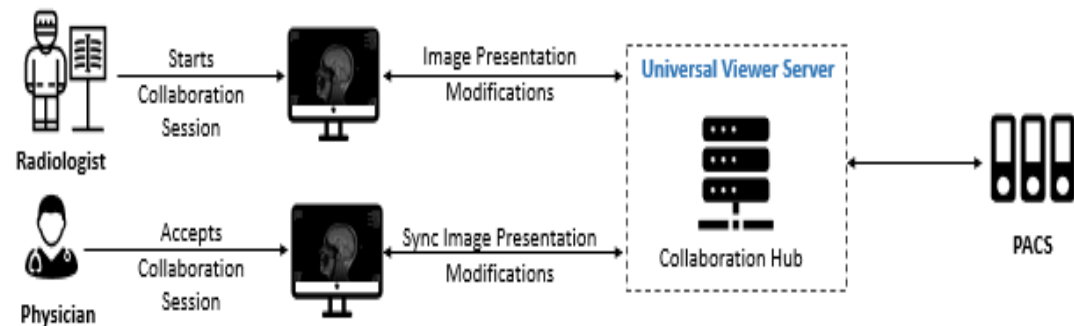
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Client Requirements

- The client, a forefront provider of groundbreaking medical imaging solutions, required a collaborative workflow enabling multiple users to collectively review a single study in real-time, ensuring enhanced care collaboration and accurate patient diagnosis.
- CitiusTech's technical proficiency and extensive familiarity with the client's codebase made it the partner of choice for this critical initiative.

Solution Schematic



CitiusTech Solution

- Designed & developed messaging hub module to enable collaboration workflow across multiple viewers displaying the same study
- Implemented various collaboration commands to synchronize all viewers for user actions like layout change, mouse movement, image level operations (WWL, zoom, pan) and annotations
- Supported a feature where each user will have a "laser pointer", a graphical representation of the mouse cursor that is visible to all participants in the collaboration session, with unique color to indicate an area of interest or inquiry
- Developed an automation framework to test the developed features & workflow
- Tested application performance to ensure real time synchronization across multiple viewing sessions

Value Delivered:

- Developed messaging infrastructure based on Microsoft ASP.NET SignalR library
- Enables meaningful peer review practices in real time to reduce diagnostic errors and improving patient care