CitiusTech | Case Study

HEALTHCARE
LIMITLESS

Automation of Modality Application (Mammography)

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.
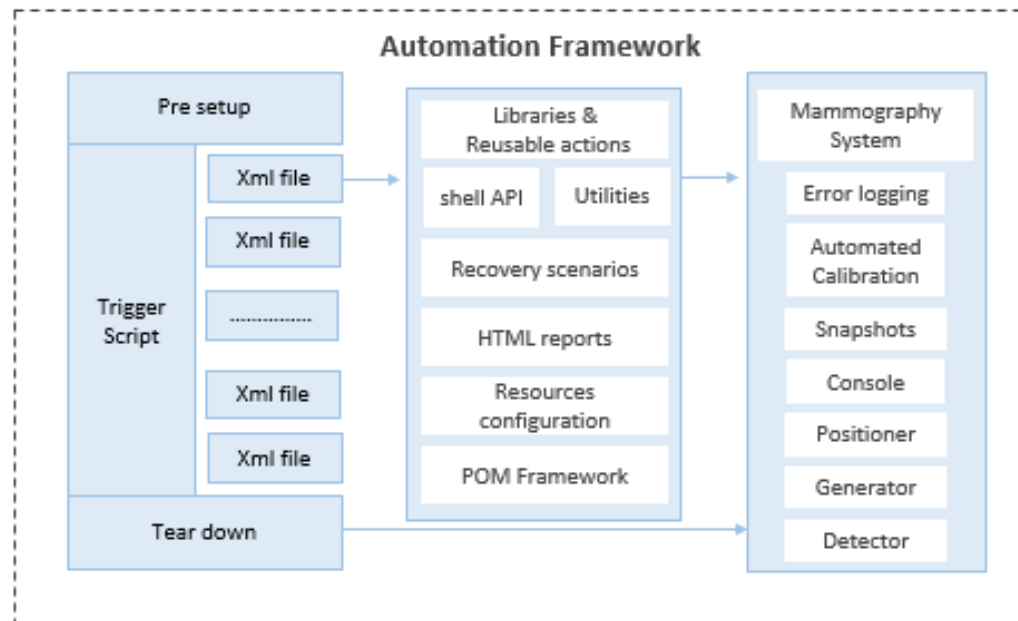
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Client Requirements

- Client is a leading manufacturer of medical imaging devices with a global presence.

- Client needed to develop automation scripts for new manual test cases along with improvements to the existing framework for its mammography system.

- CitiusTech was chosen to develop the solution for its technology and imaging expertise

Solution Schematic

CitiusTech Solution

- CitiusTech helped the client to automate the workflow (2D, 3D acquisitions, CESM & Biopsy)

- Enabled automation of system readiness & configuration checks

- System automation for alert messages for potential mismatch of procedures and patient's position during mammography

- Real time log & event verification for intra systems communication like console, positioner, generator & detector

- Calibration automation for radiation exposure, backup and restore functionality

- Enabled automation of localization of application using Squish Python

- Enhanced client's in-house automation framework based on selenium, Java & TestNG

Value Delivered:

- Automation of test cases led to 85% reduction in execution time

- Implemented a robust framework for the application to reuse, scale and improve readability of tests

- Added utilities to the framework to execute commands as any user, file backup, restore and permissions, manipulating plain text etc

- Introduced an automation framework to work with thick client application