iLAB

INDIANA STATE DEPARTMENT OF HEALTH (ISDH)

BACKGROUND

The Indiana State Department of Health's mission is to promote, protect, and improve the health and safety all Hoosiers. iLAB believes that every Hoosier deserves to reach and maintain optimal health regardless of where they live, learn, work, or play. We are honored to be partnering with ISDH in this endeavor.

iLAB Testing and Software Quality Assurance associates worked with ISDH on the implementation of two systems, Contact Tracing for COVID-19 and VitalChek.

Contact Tracing for COVID-19

Contact Tracing is a mobile application that records data for tracking positive COVID-19 cases and captures close contacts for tracing. It submits the data to the Centers for Disease Control (CDC).

iLAB Provided the Following Support:

- Developed a Test Strategy and detailed Test Plan.
- Created and executed Test Cases.
- Setup Defect Management.
- Provided User Acceptance Testing (UAT) support.

VitalChek

VitalChek, which supports the state of Indiana's vital records, is responsible for maintaining and issuing certified copies of vital records. Record types include birth and death certificates.

iLAB Provided the Following Support:

- Developed a Test Plan.
- Executed Test Cases.
- Setup Defect Management.
- Provided UAT support.

iLAB Initiated Process Improvements

Contact Tracing for COVID-19

- Implemented a centralized location for test cases by linking them all to Azure DevOps. Previously the Test Cases had been scattered and difficult to find.
- Improved Production deployments to being 97% defect free.
- Increased the speed and reduced the cost of subsequent deployments due to the decreased defect rate.

VitalChek

- Proposed and successfully implemented Azure DevOps as a test management tool.
- Added issue and work order tracking to Azure DevOps. Doing so created a single repository for requirements and other test artifacts linked to those requirements. This created a 1:1 link between requirements and their associated artifacts.
- Initiated twice a week issue related calls.
- Streamlined these calls to include only necessary parties.

iLAB is Implementing a Phased Approach for Introducing Test Automation at ISDH

Phase 1:
Define the Roadmap for ISDH Test Automation

- Review current ISDH system architecture.
- Identify Enterprise systems in place.
- Decide automation scope.
- Determine levels of testing to be automated.
- Define automation roadmap and gain approval from ISDH leadership.
- Implement automation framework (on-prem) using Selenium and Java.
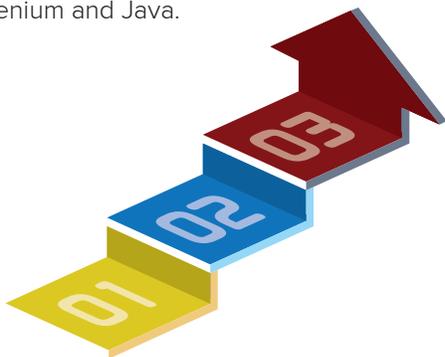
Phase 2:
Create Automated Testing for Individual ISDH Applications

Testing for individual ISDH applications will be automated by first establishing an automation framework, and then by generating automated test scripts. ISDH applications whose testing will be automated include:

- Promoting Interoperability Portal (PIP) -- An electronic health information exchange between health care providers and patients.
- VitalChek -- A vital records tracking software.
- New Born Screening (NBS) -- A disease reporting and case management platform supported by the CDC.
- Children and Hoosier Immunization Registry Program (CHIRP) -- Designed to permanently store a patient's immunization records in electronic format.

ABOUT iLAB

With over two decades of SQA and testing experience, iLAB's engagement models are designed to meet the specific complexities technology initiatives entail. Our exclusive focus on SQA and testing sets iLAB apart. For iLAB, software testing is neither an afterthought nor an add-on service. It is our core business.

iLAB's dedicated approach to SQA and testing arms our clients with a strategic advantage in delivering technology solutions. Our primary goals are to improve quality, reduce risk, ensure timelines to market, provide delivery at an optimized cost. iLAB identifies the goals of your development, the performance standards you expect, and helps define what success means. We collaborate with clients to deliver solutions through managed services, project-based delivery, consulting services, and resource augmentation. **For more information, please visit us online at www.ilabquality.com.**