

Overview:

The client is an innovative and renowned PayTech solutions provider that enables its customers to send and receive digital payments real-time and in a seamless manner. They are constantly looking at ways to empower their customers by creating unique solutions aimed at person-to-person, business-to-business and/or business-to-consumer transactions. They do it by using a combination of digital payment channels that includes debit cards, direct push payout, ACH, and closed-loop networks.

The scope and complexity of the project increased with the rise in the types and number of B2B and B2C customers. As a result of this, the resource requirements for the project to accomplish the required outcomes also went up. It thus led to the need of automation of the test processes.

Client details

Client Name: Confidential | **Industry:** FinServe | **Location:** Canada and Austria

Technologies

Appium (Mobile Automation), Selenium WebDriver (UI Automation), Cucumber, Extent Reports, Java, AppleScript, Eclipse, Maven, Platforms - Server - MAC OS X , Devices - Android Emulator, iOS Simulator, Real devices

Project Description:

With its solution, our client enabled its customers to create new revenue streams, reduce costs, increase security and improve efficiencies. At the time this project began, Mindfire had already been working with the client for 3 years, with teams handling both the development and testing requirements. Payments being at the core of this project, the stakes are always quite high. So it became imperative for us to ensure that with every release, along with testing the new features, the already existing functionalities were also validated to ensure that no loopholes existed.

In the absence of Automation, the required regression cycles were consuming a lot of effort as well as time of the QA team, something that could not get addressed just by ramping up the team size. As an result, their focus shifted towards automating the process. They felt it would improve the overall efficiency besides keeping the team-size under check. Mindfire was requested to take the required steps for Automating the Testing Process.

Challenges:

1. **Time Constraint:** As they were expanding at a rapid pace, their releases were very frequent and entailed a wide scope of work everytime. Hence they wanted the Automation Process to kick start and come into effect at the earliest.
2. **Using Existing Human Resources:** They wanted to use their existing resource-pool instead of hiring new people. They were against the idea because they felt they it would consume a lot of time.
3. **Both Web + Mobile Application Automation:** *As the Application had mobile interfaces*, so the need was for a tool which could cater to both Web Application as well as Mobile Application Automation testing.

Solutions:

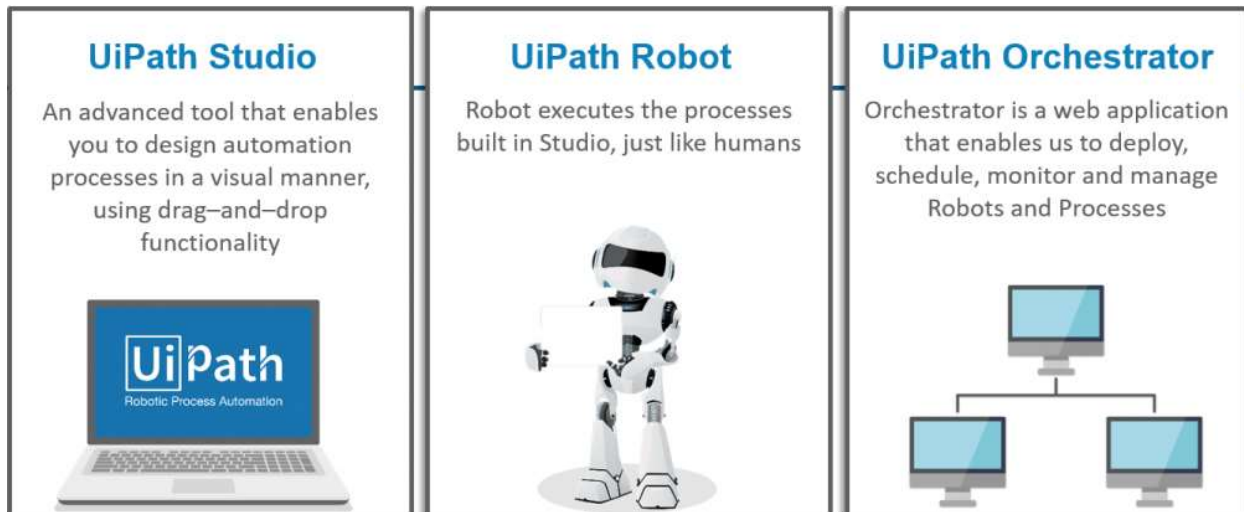
1. We needed some Automation tool which was quick and easy to learn, so that our existing Manual testing team members could pick things up fast.
2. After researching through a lot of tools we came across UiPath which seemed ideally suited for our current requirement.
3. UiPath is an RPA-based tool and it does not require knowledge of any Scripting language like Java or Python.

4. The UiPath Studio has prebuilt Activities in it. A user just needs to drag and drop those activities as per the required logic. This makes the test-case creation faster, exactly what our client was looking for.
5. Execution of test cases across multiple robots, multiple platforms and concurrent execution; all this was managed and handled very efficiently by UiPath Orchestrator.

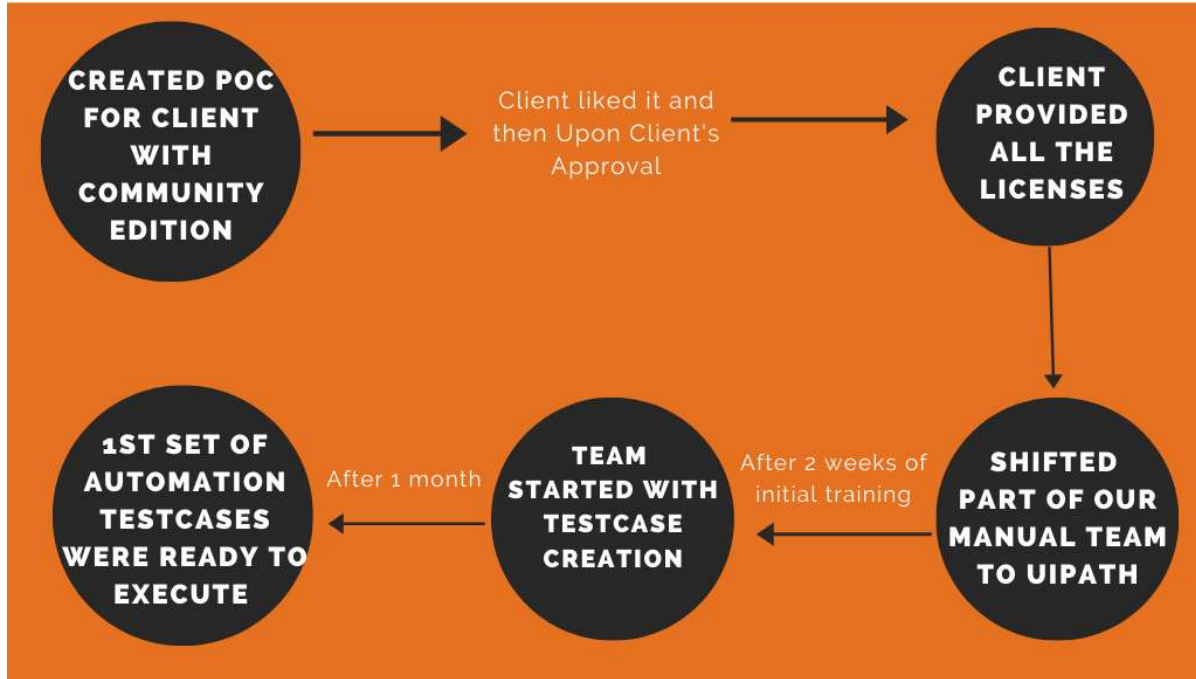
UiPath Tool:

UiPath is a Robotic Process Automation tool. It is used to automate repetitive/redundant tasks and eliminates human intervention. The tool is simple to use and has a drag and drop functionality for activities. It provides a complete software platform to help organizations efficiently automate business processes.

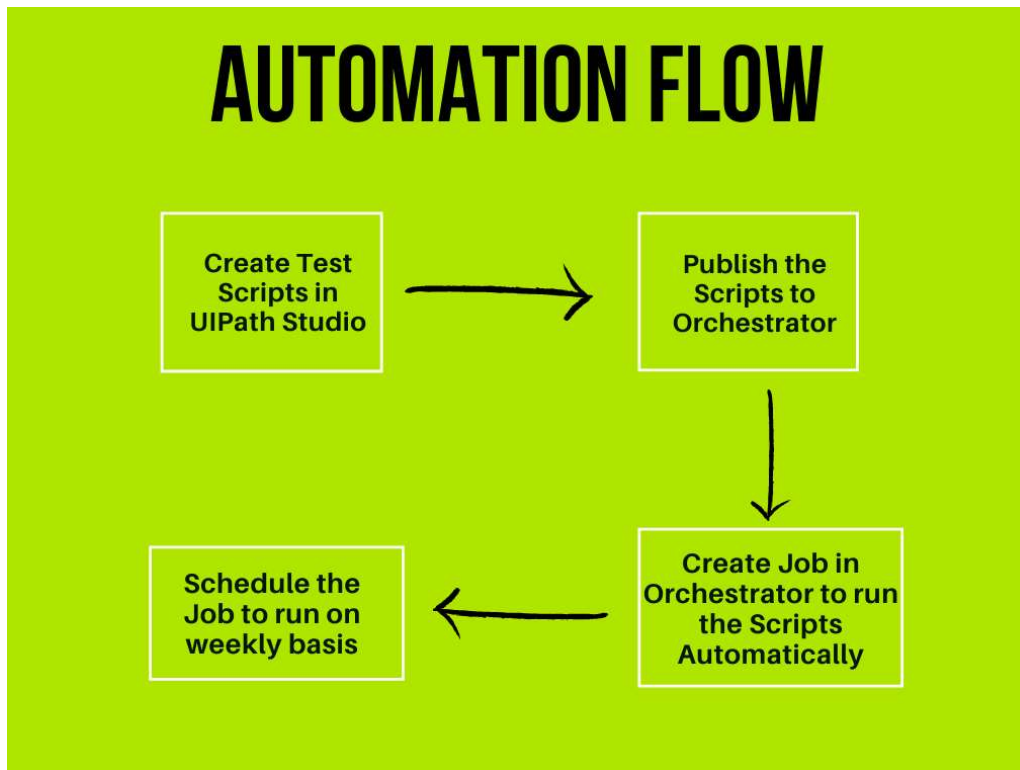
Architecture Design:



Process For UIPath Tool Adoption:

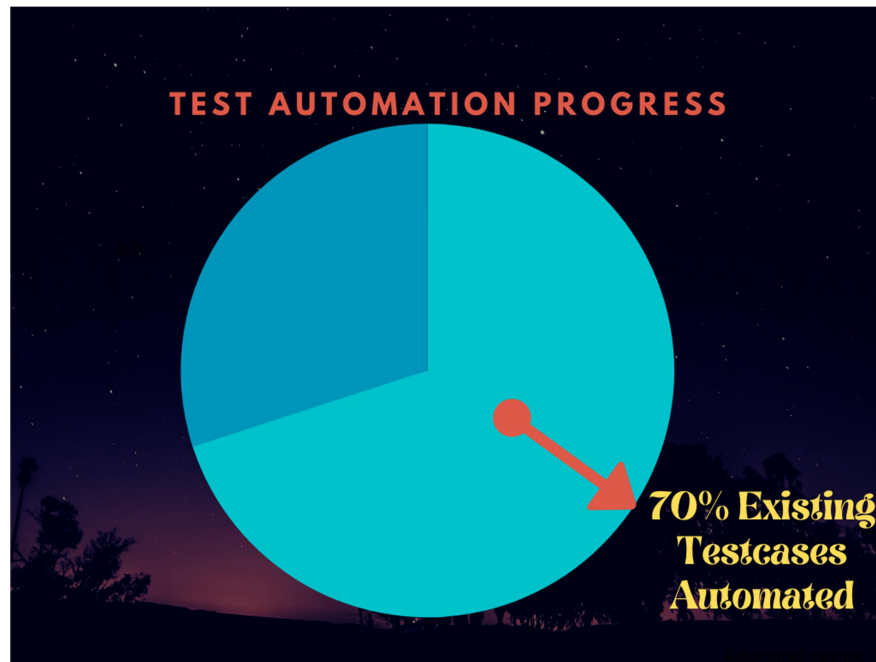


Automation Flow using UIPath



Results

1. In a short span and with a dedicated team on UiPath, we were able to automate almost 70% of the existing test cases.



2. It helped in increasing the Efficiency of QA Team besides offering the exposure to a new tool
3. The time that was spent by Testing Team in Regression Testing was saved and they are able to spend the same in thinking more out-of-box scenarios for better coverage.
4. With time, our Automation Coverage increased which in turn increased the overall quality of the product.