



Selenium

CASE STUDY
Selenium Automation
DELIVERED TO
YASH TECHNOLOGIES



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Aurelius



Selenium Automation Training Delivered to Client Yash Technologies

Client: **Yash Technologies**

Industry: **Service Provider for Oil & Gas**

Yash technologies is currently one of the leading names in the Indian service industry. Founded in 1996, the company provides a wide array of services and products of which oil and gas industry consultancy and services forms a major portion. Headquartered in Indore, the company has several offshore operations and is named as one of the “**Fast 500 Companies**” of India. Currently, the company has over 4500 global employees. The company currently claims to focus on business transformation through IT and has engagements with multiple organizations and clients across six continents. The company has been appraised as a SEI CMMI level 5 company and is recognized as a highly productive place to work.

Technology: Selenium Automation

Domain: Application Testing Automation

Selenium Automation is a completely free and open source testing suite for web applications which can be launched across different browsers and platforms. The focus of selenium is on the automation of the web based applications. Selenium in itself is not a single tool but a suite of software each of which caters to the different testing needs of the organization.

The four main components of the Selenium tool includes:



1. Selenium Integrated development environment
2. Selenium Remote Control
3. Web Driver
4. Selenium Grid

The IDE used by selenium is one of simplest frameworks in the selenium suite and is highly easy to learn. Selenium id however used mostly for prototyping and for more advanced test case developments, either Selenium RC or Web Drivers are required to be put to use.

Challenges Faced By the Client:

Being a leading service provider in the oil and gas industry, Yash Technologies gains requests for services in a wide array of technologies and tools. One such growing request was in that of Selenium Automation for oil and gas industry organizations so that they can test their web application in an automated manner. Yash Technologies however did not have the workforce nor the requisite knowledge base to work with Selenium Automation. Selenium proves to be an easy to use software for prototyping but when it comes to the development of effective and high end test case modules it becomes necessary that the users have in-depth and comprehensive knowledge in the domain so that they can work and provide the necessary services and operation capabilities.

A big challenge that the client was facing was the inculcation of hands-on knowledge. Selenium being a relatively young automation tool does not have much information and knowledge resources across the resource platforms and community networks. Consequently, the client was finding it very hard to provide its professionals with the necessary practical knowledge to work with Selenium.



Moreover, the client needed high end lab setups to provide the necessary computing power to run automated test scripts in loops for testing and prototyping procedures. With the increasing hurdles, the client was facing a risk of losing out on its client base and in the process valuable revenue also. The only way to counter this situation was to train their workforce in Selenium Automation. Another option could have been of outsourcing the task, but this they find would have led to loss of necessary control and risk of data loss which they were not ready to undertake.

Why Aurelius

In the capacity of being the problem solvers of the industry through insourcing solutions, Aurelius CS was provided with the task of developing a consultative insourcing solution in Selenium automation which would specifically be useful for the oil and gas industry. From the client side, Aurelius was provided with data about their client base, the regional demographics, the type of web applications to be developed, the required tools that were to be used in the automation and more. Based on the data, Aurelius developed a consultative learning solution which included both theoretical knowledge and practical know how through laboratory sessions. The laboratory sessions were to be undertaken in fully capable laboratories which were sourced by Aurelius for this very purpose. Under the guidance of a subject matter expert who was put through a number of screening processes before being selected. The subject matter expert was an industrial professional having years of experience in both Selenium automation and oil and gas industry. The SME provided boiled down version of years of experience to provide the best practices and troubleshooting practices to make sure that the professionals are well versed to provide the necessary services and operations for the client's business.

Aurelius has provided the client with extensive knowledge and information resources inculcated by Aurelius over the years. The client has been provided with



a consultative solution which was built from scratch and complete on shore and off shore support by the Aurelius team to make sure that the entire consultative solution was delivered in an entirely hassle free manner.

Solution and Post Solutions Benefits

The solution developed by Aurelius was able to provide the client with the necessary resources and the workforce with the proficiency to provide services to their customers in the best possible manner. The company is now providing services in Selenium automation to the oil and gas industry and thus generating increased revenues in the process. Their data suggests that the company has been increasing its revenue many folds with profit percentages increased by almost 39%. Since the company now has it s own workforce trained in the tool and the need for outsourcing agencies is eliminated the company has gained a perennial solution which is bound to provide them with increasing revenue through a high internal rate of return.