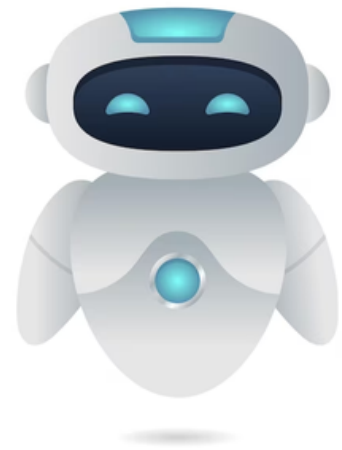


Precision Testing Through Robot Framework Powered by Sikuli

Codenatives strategically utilized Sikuli to enhance the efficiency and reliability of a sports-centric content management system, showcasing their innovative testing approach in desktop app complexities.

OBJECTIVES

Codenatives employs Sikuli Library within the Robot Framework for precise and in-depth testing of a client's desktop application. The framework excels in exploring digital display software intricacies, covering content creation, editing, playlist management, and content delivery. Despite challenges such as resolution dependencies, Sikuli's image recognition ensures accurate testing. Recent projects showcase Codenatives' adaptability in overcoming challenges, providing clients with a thorough evaluation, ultimately enhancing desktop application reliability and performance.



STRATEGY

Codenatives strategically transformed desktop app testing by integrating the Sikuli Library into the Robot Framework, leveraging its image recognition and GUI control prowess. The implementation introduced efficient UI testing keywords through Sikulix, overcoming critical limitations, including resolution dependencies. Challenges like extracting digital text and adapting to new menu introductions were adeptly navigated, showcasing Codenatives' innovative approach and adaptability in ensuring a comprehensive testing strategy for enhanced desktop app performance.



CHALLENGES

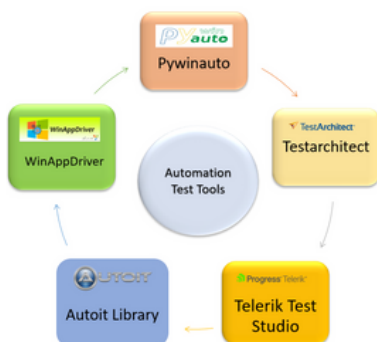
Challenges with available test automation tools underscore the complexities in achieving flawless performance for their desktop application. Compatibility issues, limited functionalities, and recording errors necessitated a more innovative and robust testing solution.

TOOLS EVALUATED

- Autoit Library
- Pywinauto
- WinAppDriver
- Telerik Test Studio
- Testarchitect

ISSUES

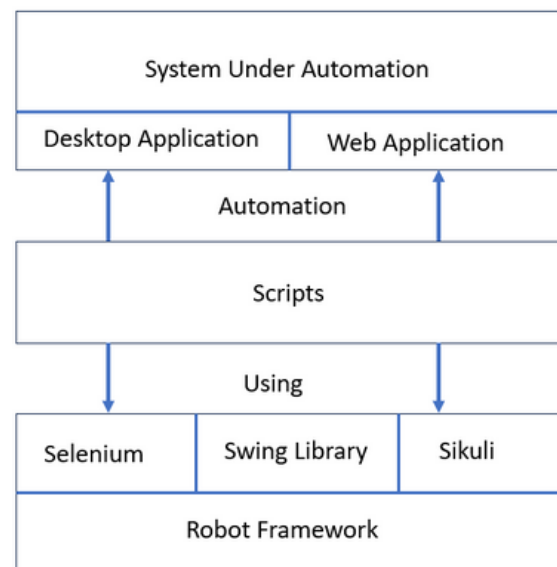
- Compatibility issues and limitations
- Lack of comprehensive keyword references
- Challenges with customization
- Activation requiring development mode



SOLUTION

Unleashing Sikuli Library within Robot Framework

Drawing upon its test automation prowess, proposed a transformative solution by incorporating the Sikuli Library into the Robot Framework. Sikuli, renowned for its open-source GUI automation capabilities, specializes in image recognition and GUI control.

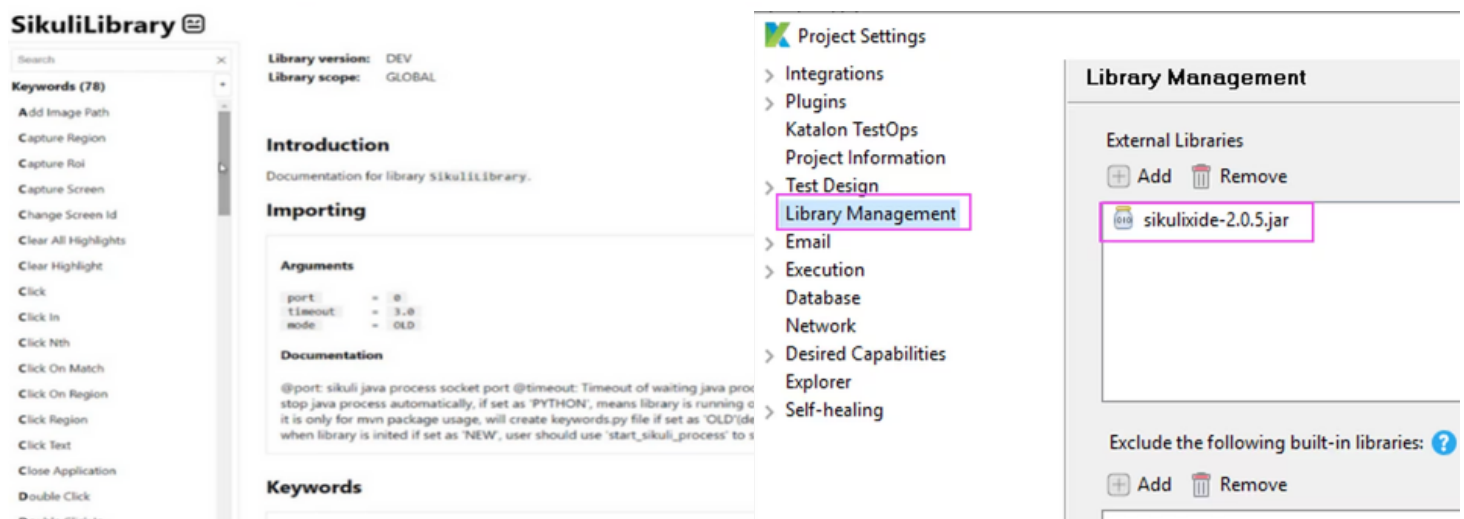


Implementation and Efficiency: Overcoming Limitations

The seamless integration of Sikuli Library into the Robot Framework introduced efficient keywords tailored for UI testing through Sikulix. This innovative approach addressed critical limitations despite challenges such as resolution dependencies.

Challenges Faced During Implementation:

Codenatives navigated challenges, such as extracting digital format text using Sikuli. Additionally, the adept handling of region variables for new menu introductions demonstrated our adaptability.



CONCLUSION

The client experienced enhanced testing efficiency, overcoming limitations associated with existing tools. Despite challenges, Codenatives' expertise ensured a seamless transition to a robust test automation framework, significantly improving the overall performance and reliability of the content management system.

This case study exemplifies how Codenatives, through innovative testing methodologies, successfully navigated the complexities of desktop app test automation, offering a solution that elevated the efficiency and reliability of their content management system.

