

# Agile Testing: Manual and Regression Automation (1/2)

The Client: A leading Retailer providing ecommerce and online rental services for men's apparel



## Business Requirement

- The client's business operates complex retail workflows : managing their website, omni channel retail, enterprise portals for order management, customer profiling and 360 analysis etc.
- Accelerate the application development life cycle by enforcing critical and inclusive testing methods
- Perform end to end functional and regression tests to ensure application quality
- Achieve time to market goals with timely bug-free production releases
- QA oversight to cover technical and business goals of the app releases



## Indium Solution

- Understand business workflows and prepare module/ use case wise Test Plan
- Established QA Standards and adopted Agile based Testing approach for manual and regression automation tests
- Conducted manual functional tests based on Agile Stories – sprint wise
- Created Automation scripts for regression of functionality and continuously improved scripts in line with evolving functional changes
- Conducted backlog grooming on test stories and execution cycles



## Tools

- QTP/UFT, HP Performance Center, API – Soap UI, Postman  
JIRA – Defect Management



## Engagement

- **30** - member team for various modules to execute Functional and Automation Tests

# Agile Testing: Manual and Regression Automation (2/2)



## QA Process

- Embraced an Agile Testing approach to optimize test cycles, collaborate with dev teams to implement real time feedback; discover bugs early and often
- Agile Team created acceptance tests in collaboration with Dev teams and business analysts
- Performed exploratory tests for Manual functional tests
- Reported Traceability for every sprint requirements, test cases and bugs
- For every functionality in a given sprint scope, Business Impact matrix was created with vulnerability scores that define the severity and priority for release
- Produced sprint wise (Agile) Test plans and created Story Tests, Prototypes and Simulations
- Continuous feedback
- Leveraged Automation using custom frameworks to execute regression and speed up test cycles
- Monitored test scripts execution time periodically and optimized them



## Business Impact

- Standardization of QA processes helped handle the client's frequent build cycles with a quick QA turnaround
- Test team as active contributors in requirement and sprint scope analysis
- Test Cycle accelerated by 60% with the use of Automation Frameworks and sprint wise assessments in Test efforts
- Proposed and executed API Automation which was manually conducted and contributed to 15% of overall Test Effort



## Tools

- **iSAFE Automation Framework**



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