

A close-up photograph of a microscope lens, illuminated with a blue light. The lens is the central focus, with other parts of the microscope blurred in the background. The text is overlaid on the left side of the image.

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Test Automation: An Effective Approach

Accenture Test Services - IDC

Manual Regression Testing

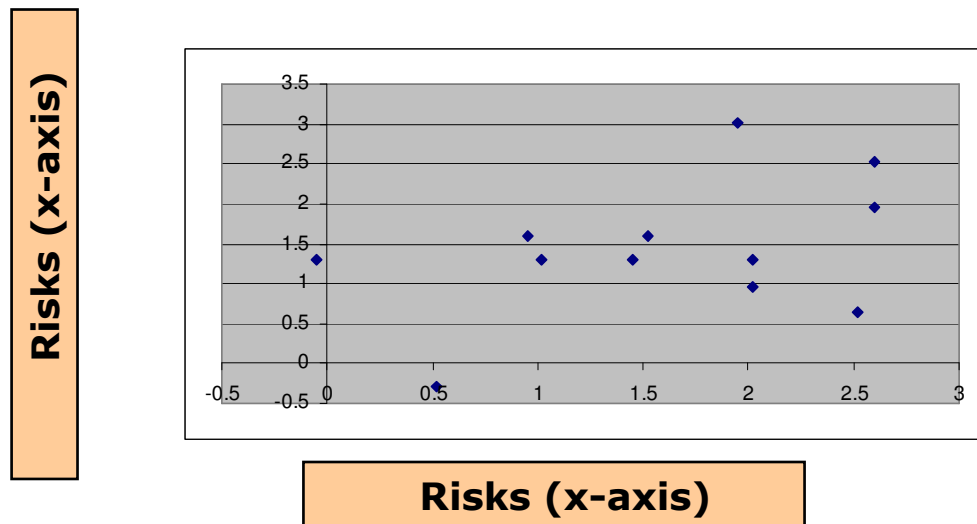
- Why invest in manual regression testing?
- Challenges in manual regression testing.

Automated Regression Testing

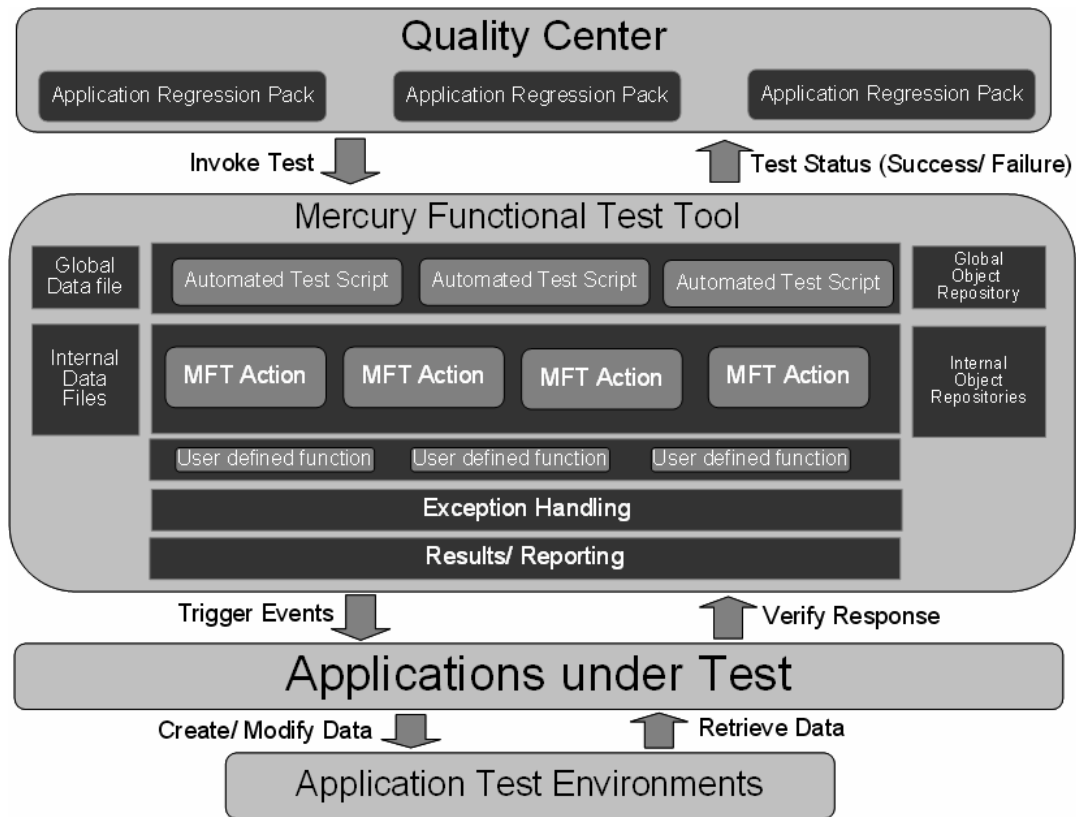
- Benefits
- Challenges

Risk-Benefit Analysis

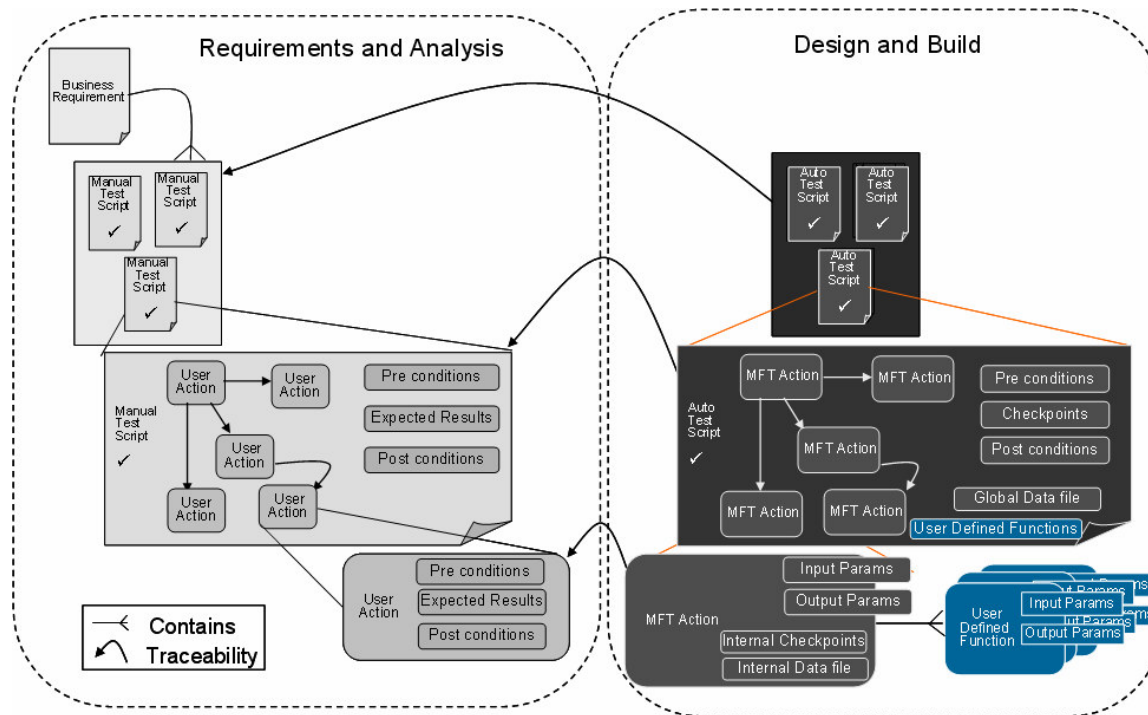
Application of Risk-Benefit analysis to select applications for automated regression testing.



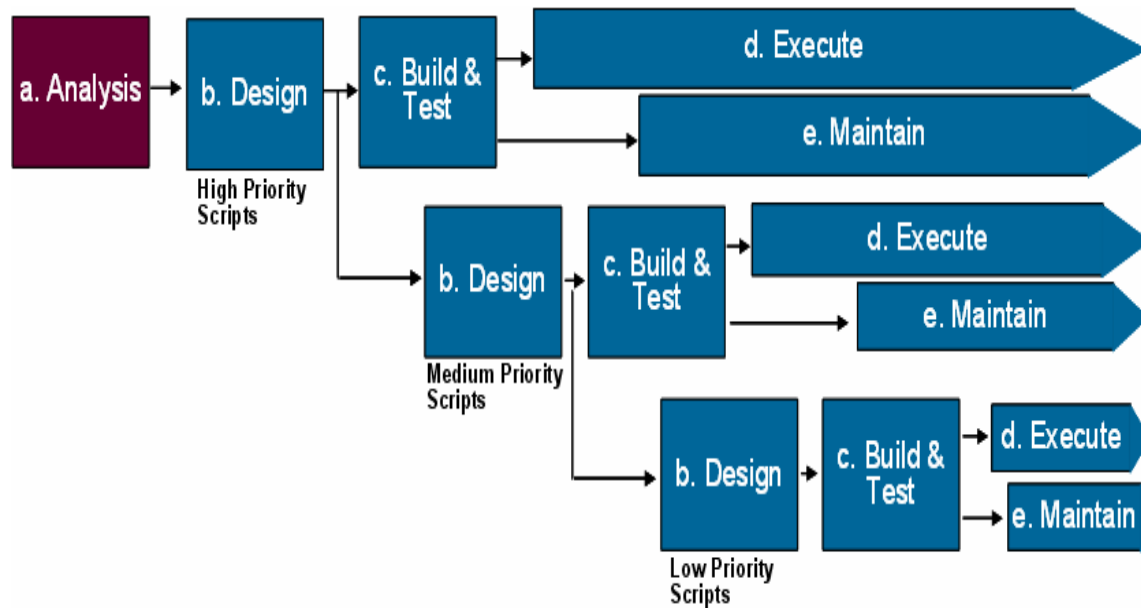
Architecture



Test Automation Artifacts



Automation Methodology



Selecting Regression Tests

Type of Release	Applicable Packs
Defect-fix Release	P1
Minor Release (release having small enhancements)	P1 & P2
Major Release (release having large enhancements)	P1, P2 & P3

Metrics

Sr. No.	Metric Name	Objective	Description	Calculation
1	Effort Variance	Cost of Automation	Variance of the actual effort for Automation against the estimate	$[(\text{Actual Automation Effort} - \text{Planned Automation Effort}) / \text{Planned Automation Effort}] * 100$
2	Schedule Variance	Cost of Automation	Variance of the actual elapsed time for Automation against the estimate	$[(\text{Actual End Date} - \text{Planned End Date}) / (\text{Planned End Date} - \text{Planned Start Date})] * 100$
3	Productivity Rate	Speed	Rate at which Automation Test Scripts can be developed	No. of Automated Test Scripts developed / Actual Effort