



EPAM Systems, RD Dep., RD Dep.

FRAMEWORKS&ADVANCED SELENIUM

DQE

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Task 1

For our Project “B” SUT it will be crucial to set up test automation process , it will allow us to automatically validate input data as the ETL process is set to upload data daily , also validate output result for complex calculations. For test automation process we need to define testing approach , in this case we will proceed with data-driven testing framework as we need to run tests with multiple sets of input data.

We don't have any specific project requirement for testing process.

The programming language is Python, We don't have any auto tests yet.

Project stack is mostly in Python and plus many services which are familiar me.

Testing process will be running by technical team and will be maintained by other technical team after me.

We have two people in testing team , one manual QA and one automation QA.

Manual tester cost 20 man-hours per week * 52 weeks * 3 years = 3120 man-hours

Test automation framework creation 100 man hours (Need to implement complex framework with DDF approach)

Time to create automated scenarios 40 man hours per 4 month: 760 man-hours

Automated test execution & result analysis: 8 man-hours per week * 3 years * 52 = 1248 man-hours

$ROI = 3120 - (100 + 760 + 1248) / (100 + 760 + 1248) = 48\%$