**Calculate ROI** (Return of investments) for automation for the following project:

Project has long-term perspective of supporting as 3 years.

Average time required for manual testing is 24 man-hours per week.

Test automation framework implementation will take approximately 40 man-hours.

It is planned to spend no more than 10 month for creating automated scenarios.

Automated test execution, maintenance & result analysis: 6 man-hours per week.

Cost of manual testing - (Framework set up + Scenarios development + Maintanance + Result analyzis)

ROI = ----------------------------------------------------------------------------------------------

Framework set up + Scenarios development + Maintanance + Result analyzis

Project duration - 3 Years

10 month for creating automated scenarios = 10/12=0,83 year

Manual testing cost: 24 man-hour per week \* 3 years \* 52 weeks = 3744 man-hours

Automated tests development cost: 40 man-hours setup framework + (40 man-hours per week scenario development \* 0.83 years \* 52) = 1766,4 man-hours

Automated test execution & result analysis: 6 man-hours per week \* 3 years \* 52 = 936 man-hours

ROI = ((3744-(1766,4+936))/( 1766,4+936))\*100= 38.5%

linkchecker https://staronka.kz/examples -ohtml --file-output=html/~/Desktop/examples.html -q