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Test project: PA6-TestAutomation

**Why and When do we use test automation?**

Test Automation is the best way to increase the effectiveness, test coverage, and execution speed in software testing. Automated software testing is important due to the following reasons:

* Manual testing is time and cost consuming.
* It is difficult to test for multilingual sites manually.
* Test Automation in software testing does not require Human intervention. You can run automated test unattended (overnight).
* Automation testing shorten tests and project duration.
* Difficult to do manual testing in some situations:
* Multi lingual sites
* Performance test
* Security test
* Automation helps increase test coverage.
* Manual Testing can become boring, tedious and hence error-prone.

While doing test pass you need to check regression testing around the defect fixes. This testing exercise needs to be executed each and every time you need to manually test the functionality around the impacted area. So considering resources, time and money you need to work effectively and smartly. In such scenarios you need to think of Automation testing.

Test automation works best for some testing:

* High risk, business critical test cases
* Test cases that are executed repeatedly
* Such as regression test
* Test cases that are very tedious or difficult to perform manually
* Time consuming test cases
* Performance tests
* Load tests
* Security tests

Generally, REGRESSION testing

* Testing functionality that has been tested before in earlier iterations