

Why and when do we use test automation?

We use test automation because of its benefits:

- Save time and money. Automated tests can be run much faster than manual tests, which can save a lot of time and money.
- Increase test coverage. Automated tests can be used to test more cases than manual tests, which can help to improve the quality of the software.
- Improve accuracy. Automated tests are less likely to make mistakes than manual tests, which can help to ensure that the software is free of defects.
- Reduce the risk of regression. Automated tests can be used to verify that new changes to the software do not introduce new defects.
- Improve the efficiency of the testing process. Automated tests can be run automatically, which can free up testers to focus on other tasks, such as designing new tests or investigating defects.

We use test automation when we need to run the same test repeatedly, when we need to test a large or complex system, when we need to test a system that is difficult or dangerous to test manually, or when we need to test a system that is constantly changing.