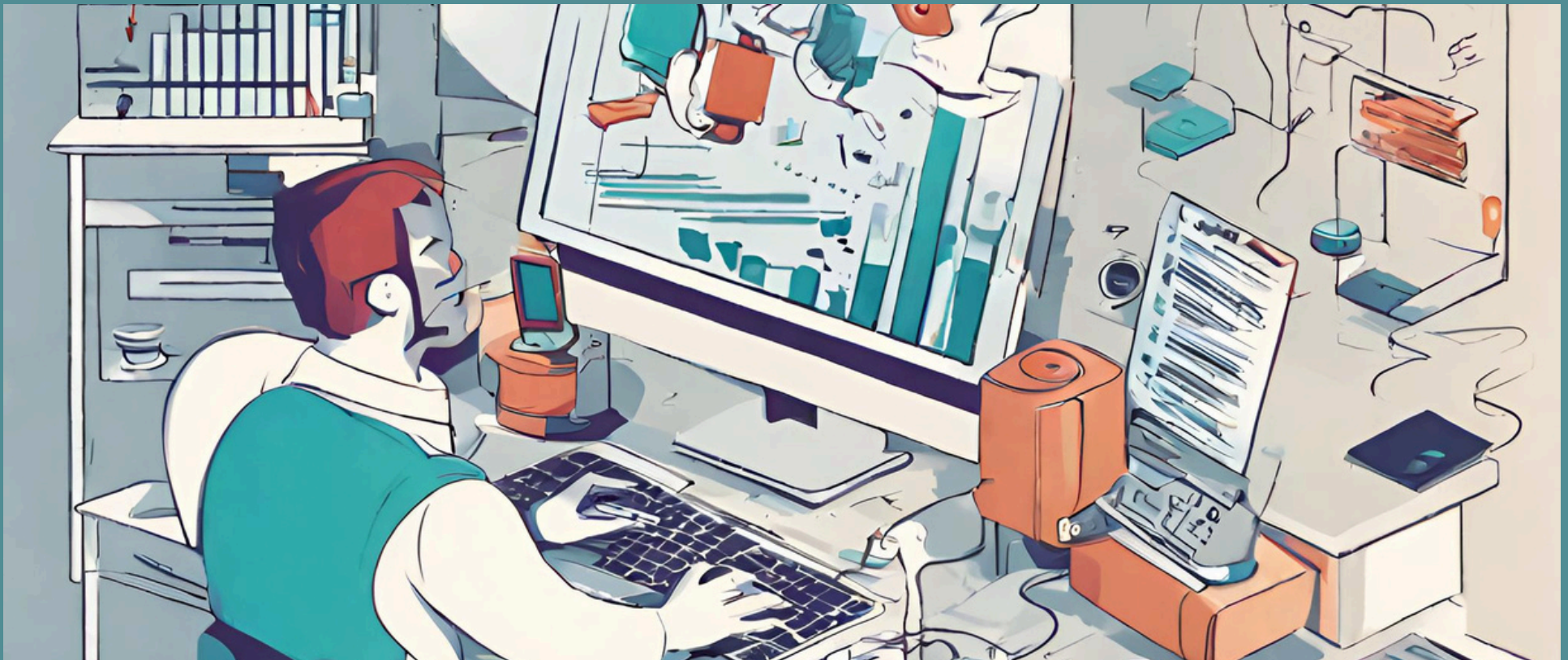# Common Challenges in Test Automation

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FLAKY TESTS

Flaky tests can lead to unreliable results & waste of time.

Strategies to overcome:
1. Implement robust wait conditions
2. have stable test environment
3. optimise test scripts for better execution

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Ever changing requirements

Frequent changes in requirements is a constant challenge, requires high adaptability and flexibility in test automation.

Strategies to overcome:

1. Open communication with stakeholders
2. Regular requirement reviews
3. Priortise test cases based on criticality

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Resource Constraints

Limited timelines and resources can impact automation activities and thus productivity & scalability.

Strategies to overcome:
1. Prioritize test cases
2. Leverage frameworks
3. explore parallel execution to optimize resource allocation

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High Maintenance

Maintenance of existing automation is more time consuming versus re-creating scripts from scratch, if automation is not done properly.

Strategies to overcome:
1. Increase modular design principles
2. Implement best practices
3. Diligently implement automation framework
4. Have robust locator strategies
5. Ensure test data does not sit inside the code.

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Tool Limitations

Tools with limited features/functionalities can give limited test coverage.

Strategies to overcome:
1. Evaluate tools properly
2. consider integration capabilities with 3rd party tools

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Overcoming challenges in test automation requires a strategic approach, leveraging the right tools, strategies, and collaboration. By addressing common obstacles and implementing effective strategies, teams can achieve automation success and deliver high-quality software with confidence.