

Automated testing In python

Automation Testing

- Automation testing is the process of using specialized tools and scripts to execute tests automatically.
- It eliminates the need for manual intervention, making the testing process faster, more efficient, and more reliable.

Levels of Testing

Unit Testing:

- Testing individual components (functions, methods) of the code in isolation.


Integration Testing:

- Testing how different modules or components work together.

System Testing:

- Testing the entire application as a whole.

Acceptance Testing:

- Verifying if the system meets business requirements.
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Python Testing Frameworks

unittest:

- Built-in testing library in Python.

pytest:

- A popular and powerful testing library.

nose2:

- Extension of unittest.

doctest:

- Tests written in docstrings.
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Test-Driven Development – TDD

- Test-Driven Development (TDD) is a software development methodology where you write tests before writing the actual code.
 - The process ensures that your code meets the specified requirements and is continuously tested during development.
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