Python unit testing options:

* Robot:
  + Free software (MIT License)
  + Python generic test libraries.
  + Acceptance testing.
  + Keyword-driven testing approach.
* Pytest:
  + Free software (MIT License)
  + Stand alone, allows compact test suites.
  + Unit testing.
  + Special and simple class fixture for making testing easier.
* Unittest:
  + Free software (MIT License)
  + Part of Python standard library.
  + Unit testing.
  + Fast test collection and flexible test execution.
* DocTest:
  + Free software (MIT License)
  + Part of Python standard library.
  + Unit testing.
  + Python interactive shell for the command prompt and inclusive application.
* Nose2:
  + Free software (BSD License)
  + Carries unittest features with additional feature and plugins.
  + Unittest extension.
  + A large number of plugins.
* Testify:
  + Free software (ASF License)
  + Carries unittest and nose features with additional feature and plugins.
  + Unittest extension.
  + Test discovery enhancement.

For ease of use and versatility we have chosen to use unittest for our project.