Agile Testing quadrants

Testing in agile is a continuous process and not a one-time task. The testing quadrants does not only help describe the purpose behind testing in a vast scale but also ensured product quality concerning all participants in the agile process eg the the team, the project owner, the users and the product itself.

All tests are split into four quadrants. The horizontal axis of the quadrants have tests with the purpose of supporting business side and technology side. The Business side tests are understandable by the business and are focused on satisfying the user. The technology facing tests are written by the developers and are meant to ensure their code behaves as it is supposed to.

The purpose of the vertical axis is to evaluate the developer's code and critique the solution in order to compare it to the user's expectations.

The four quadrants are purposed as follows:

Unit and component tests are contained in **Q1.** They run before and after code changes are made by the developers in order to confirm the system behaves as it was intended. These tests are made by the developers. By automating their execution reduces the time spent to run test continuously after every deployment

Q2 holds the functional tests that are user acceptance tests to ensure the code respond to the Stories and Features defined by the users. This reassures the product owner that the value of the project is met for the users requirements. Most agile teams Automate these tests whenever is possible.

Q3 have the system-level acceptance tests. They validate the behaviour of the system with the usability and functionality requirements also taking into consideration. These tests are often done manually because they involve users and testers using the system in actual deployment.

Q4 contain quality tests to ferify the system meeets the non-functional requirements. They are usually suported by a stack of automated testing tools such as performance and load, made specifically for this purpose. These tests must be run continuously because the system changes ofer the development process.