

Agile Software Requirements

Software Requirements Engineering – 40688

Computer Engineering department

Sharif university of technology

Fall 402

Chapter 10:

Acceptance Testing

Agile Testing Overview

Two main categories of testing:

1) A **business-facing** test

Is one you could describe to a business expert in terms that would (or should) interest her.

2) A **technology-facing** test

Is one you describe with words drawn from the domain of the programmers.

He further categorizes tests

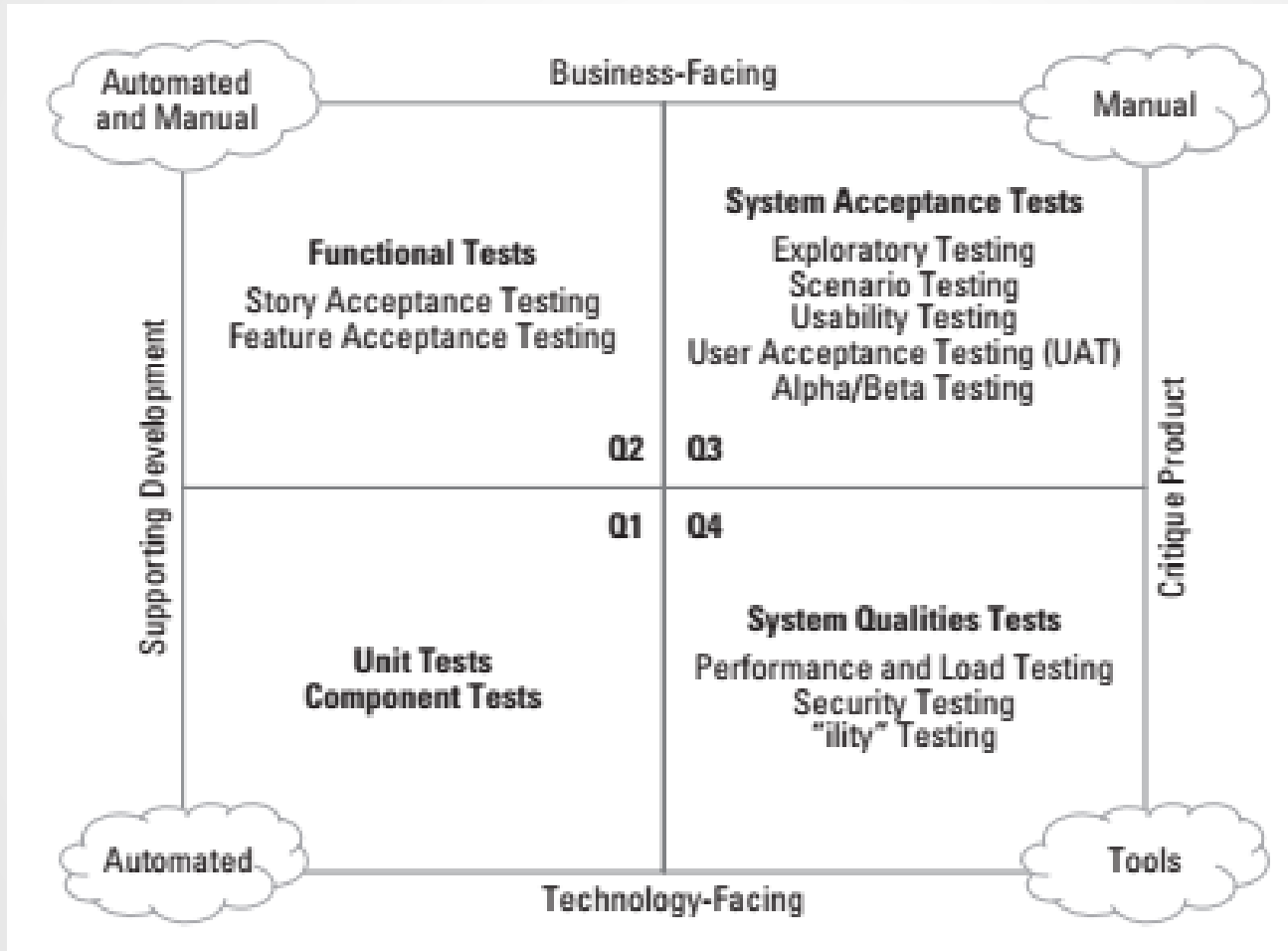
1) Tests that **support programming**

The programmers use them as an integral part of programming

2) Tests that **critique the product**

They look at a finished product with the intent of discovering inadequacies.

The agile testing matrix



Story Acceptance Tests (SAT)

- Stories are the workhorse of agile development.
- Story acceptance tests are the workhorse of agile test.
- Teams spend much time defining, refining, and negotiating the details of these tests.

Characteristics of good SATs (1)

- 1) They Test Good User Stories
 - An attribute of a good SAT is that it is associated with a good user story.
 - INVEST
- 2) They Are Relatively Unambiguous and Test All the Scenarios.
 - There can be little ambiguity about the details in the story acceptance test.
 - In addition, the acceptance test must test all the scenarios implied by the story.

Characteristics of good SATs (2)

3) They Persist

- User stories can be safely thrown away after implementation.
- But acceptance tests persist for the life of the application.

An Example

- As a consumer, I am always aware of my current energy costs.
 - As a consumer, I always see current energy pricing reflected on my portal and on premise devices so that I know that my energy usage costs are accurate and reflect any utility pricing changes.
- 1) Verify the current pricing is always used and the calculated numbers are displayed correctly on the portal and each on premise device (see attachment for formats).
 - 2) Verify the pricing and the calculated numbers are updated correctly when the price changes.
 - 3) Verify the “current price” field itself is updated according to the scheduled time.
 - 4) Verify the info/error messages when there is a fault in the pricing (see approved error messages attached)

Acceptance test template

- 1) Story
- 2) Conditions of Satisfaction
- 3) Modules Impacted
- 4) Documents Impacted
- 5) Test Case Outline
- 6) Commutations

Automated Acceptance Testing

- 1) Database-driven tests
- 2) Web UI testing tool
- 3) Automated tools for record and playback
- 4) FIT
- 5) FitNesse