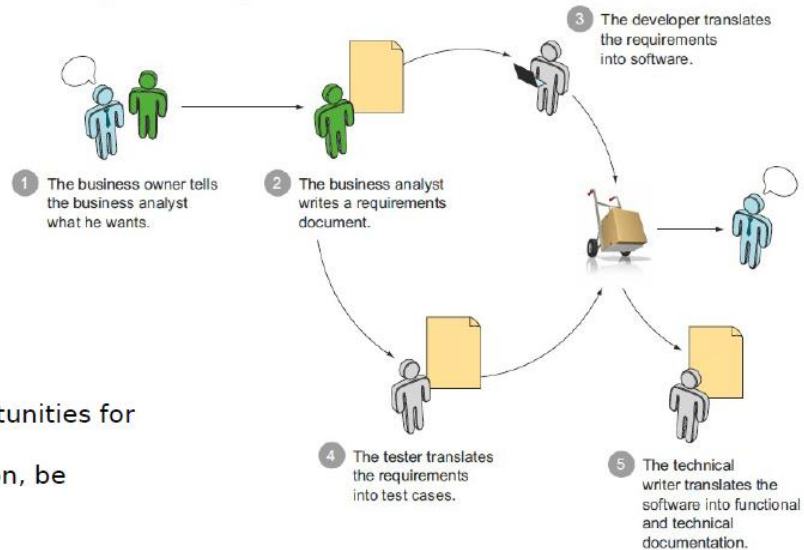


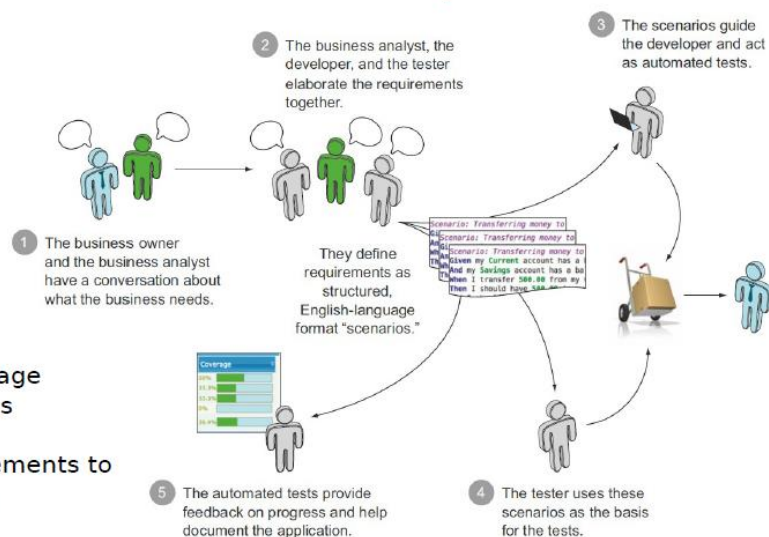
# Introductions

## Traditional development process



There are many opportunities for information to get lost in translation, be misunderstood, or just be ignored.

## BDD uses conversations around examples



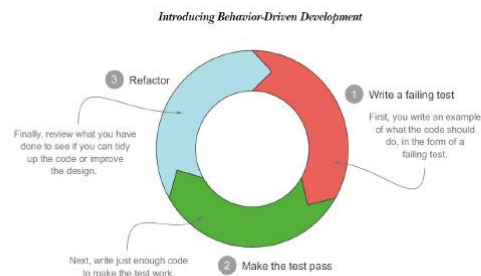
They use a common language that allows for an easy, less ambiguous path from end-user requirements to usable, automatable tests.

## What is BDD ? What is TDD ?

- A set of software engineering practices designed to help teams build and deliver more valuable, higher quality software faster.

### ***BDD was originally designed as an improved version of TDD***

- **Test driven development** (TDD) is a software development approach in which a test is written before writing the code. Once the new code passes the test, it is refactored to an acceptable standard.



## ***BDD was originally designed as an improved version of TDD (continue)***

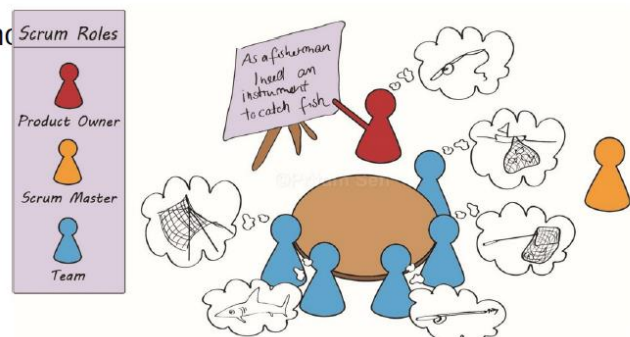
Differentiation between TDD and BDD:

TDD	BDD
focus on the method or function they're testing	focus on what the code should do in business terms.
<pre>public class BankAccountTest {     @Test     public void testTransfer() {...} }</pre>	<pre>public class BankAccountTest {     @Test     public void sholud_transfer_funds_to_a_different_bank()     {...} }</pre>

## **WORK TOGETHER TO SPECIFY FEATURES**

BDD is a highly collaborative practice:

- Between users and the development team, and within the team itself.
- Business analysts, developers, and testers work together.
- With the end users to define and specify features, and team members draw ideas from their individual experience and know-ho



## What is the benefit/Purpose of this BDD?

- Focus on identifying, understanding, and building valuable features that matter to businesses.
- Deliver real business value
- Viable product
- Teams can deliver more useful features earlier
- Reduced waste
- Reduced costs
- Faster release

## What is Cucumber?

- Cucumber is a testing framework which supports BDD.
- It allow us to create **feature file** in plain meaningful English text using a simple grammar defined by a language called **Gherkin**

## What is Feature File?

**Feature File** is an entry point to the *Cucumber* tests. This is a file where you will describe your tests in Descriptive language (Like English).

## What is Gherkin ?

- *Gherkin* is a simple, lightweight and structured language which uses regular spoken language to describe requirements and scenarios.
- Is a common language across different domains of project.

## Example of Feature file

### Feature

- Something that your software does/should do

**Feature:** <short description>

*In order to* <business value>

*As a* <role>

*I want* <feature>

**Feature:** GST overview page

*In order to* ...support GST calculation in the system

*As a* customer

*I want to* be able to view the GST percentage

## Example of Gherkin :

### Scenario

- Sequence of steps through the feature
- Independent and isolated. Can run any scenario at any times

### Format:

**Scenario:** <concrete example of system behavior>

**Given** <set up initial state/steps>

**When** <perform action>

**Then** <expected outcome/end state>

**Scenario:** View GST percentage in overview page

**Given** I login as User

**When** I go to overview page

**Then** I should see GST percentage column