

Manual QA

BDD

Manual QA

План уроку

- BDD – що це таке, як утворився, чому популярний
- BDD тестування та BDD проєкт
- Gherkin сценарії
- Інструменти для BDD тестування
- Звіти про тестування BDD інструментів

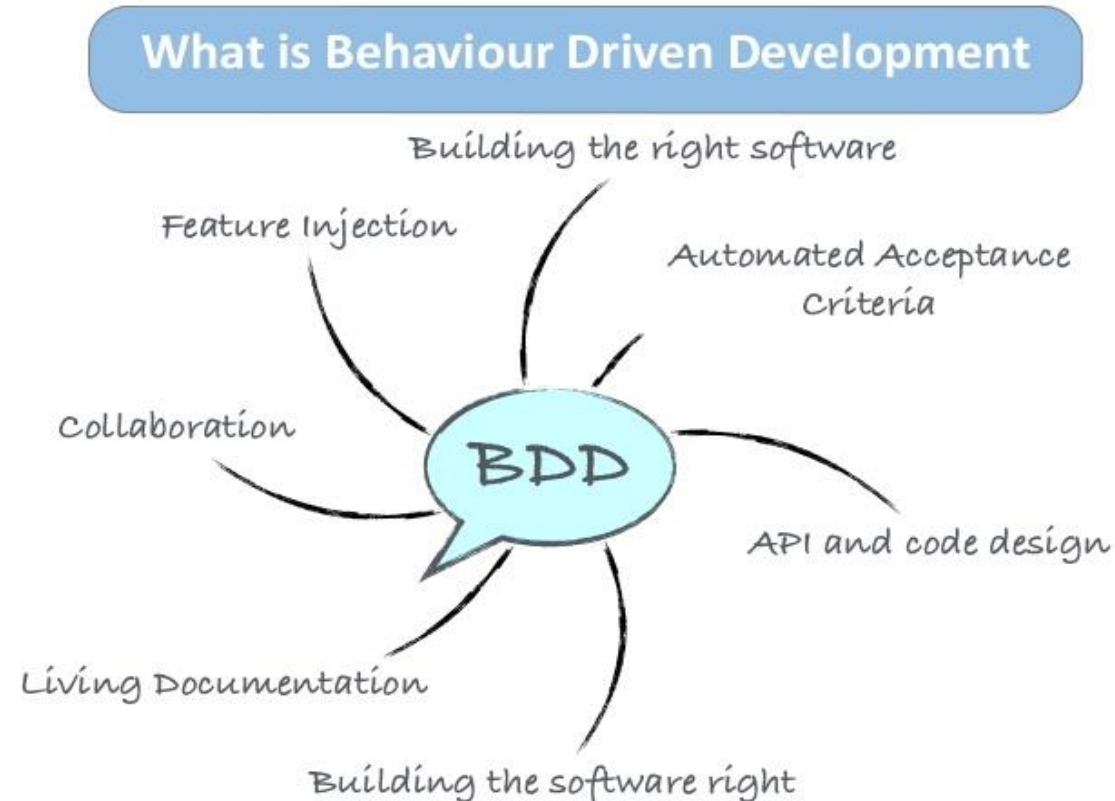
Manual QA

BDD

Manual QA

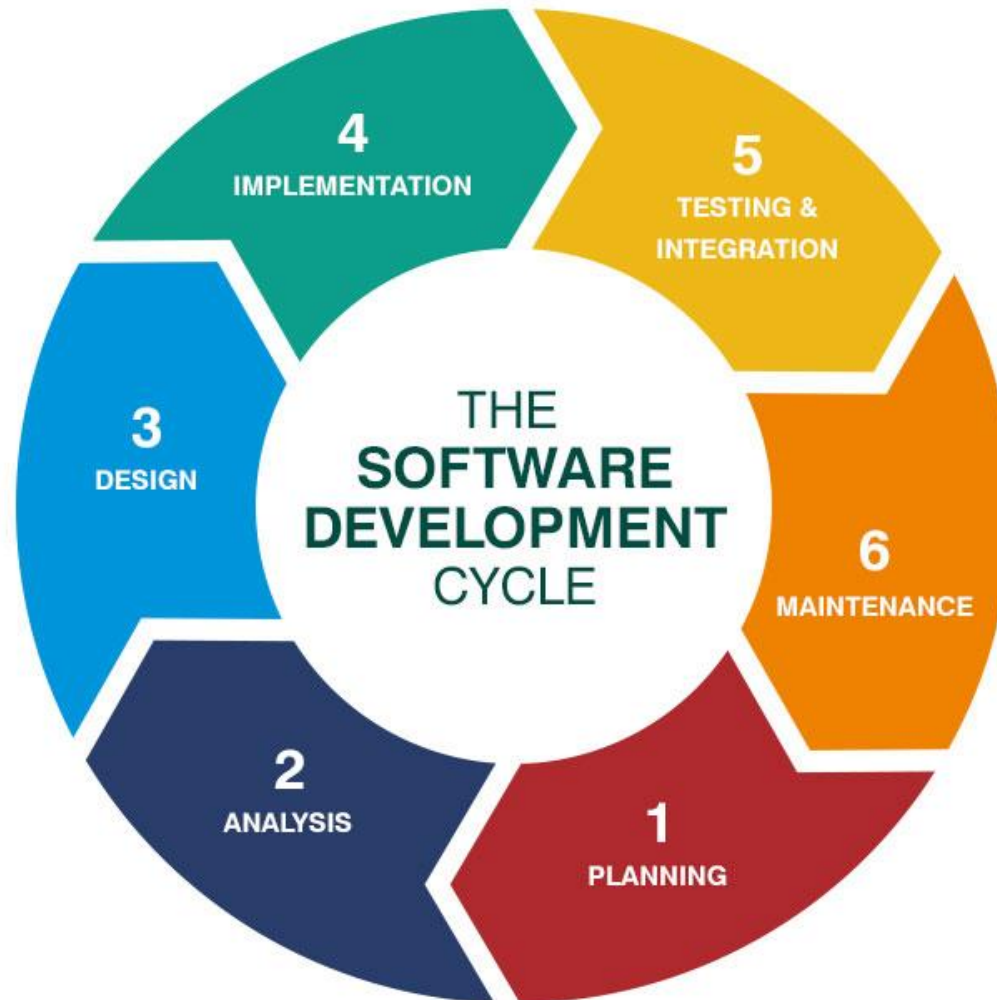
BDD

Розробка на основі поведінки (Behavior Driven Development, BDD) – це підхід до розробки програмного забезпечення за допомогою безперервного обміну прикладами поведінки системи між Dev, QA та BA.



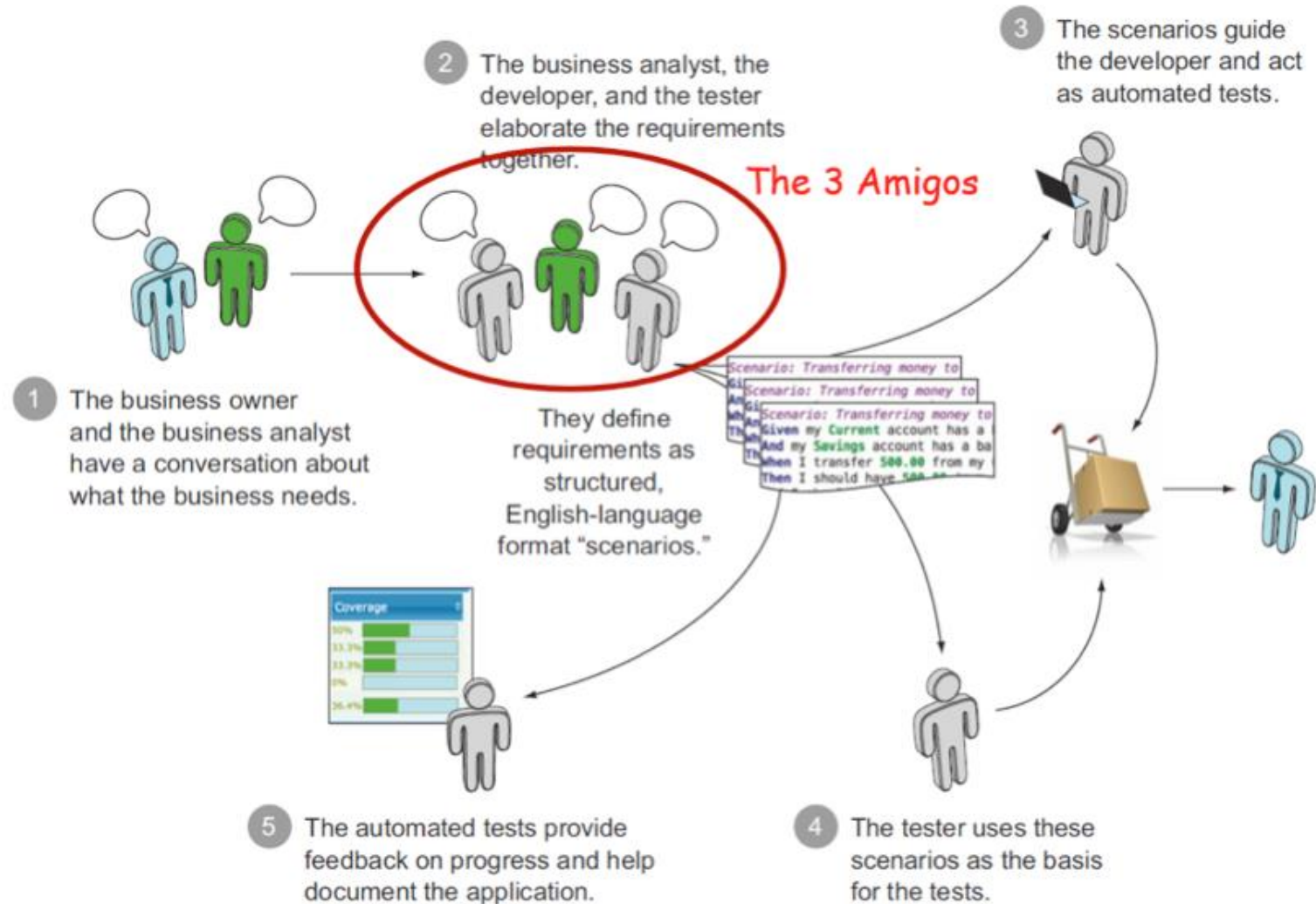
Manual QA

SDLC



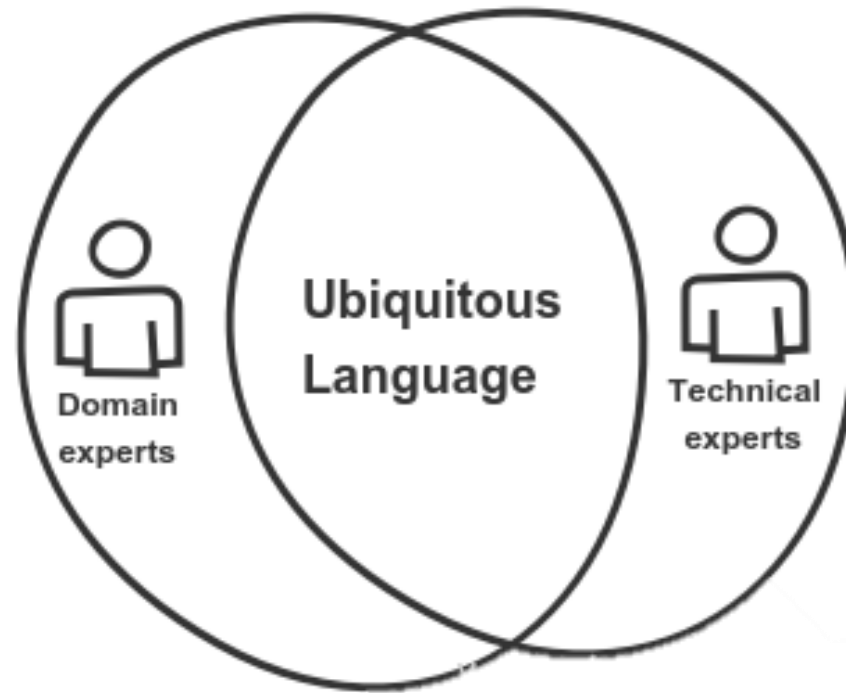
Manual QA

BDD



Manual QA

BDD



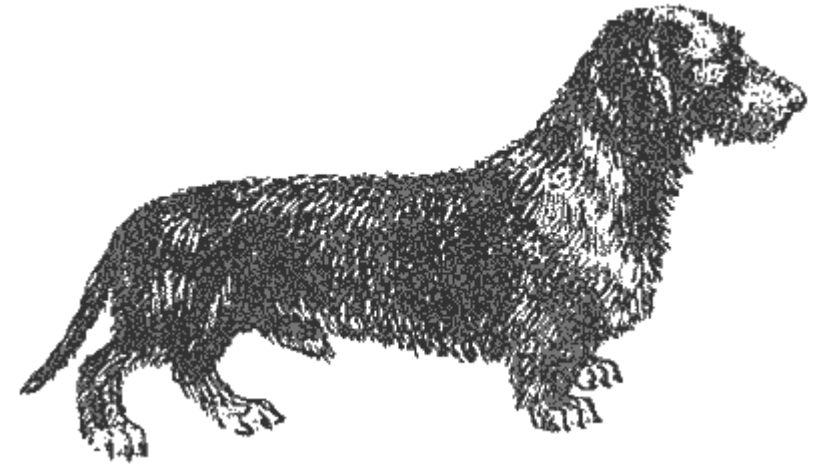
У чому ж справа?

Manual QA

BDD



Уявіть таксу!



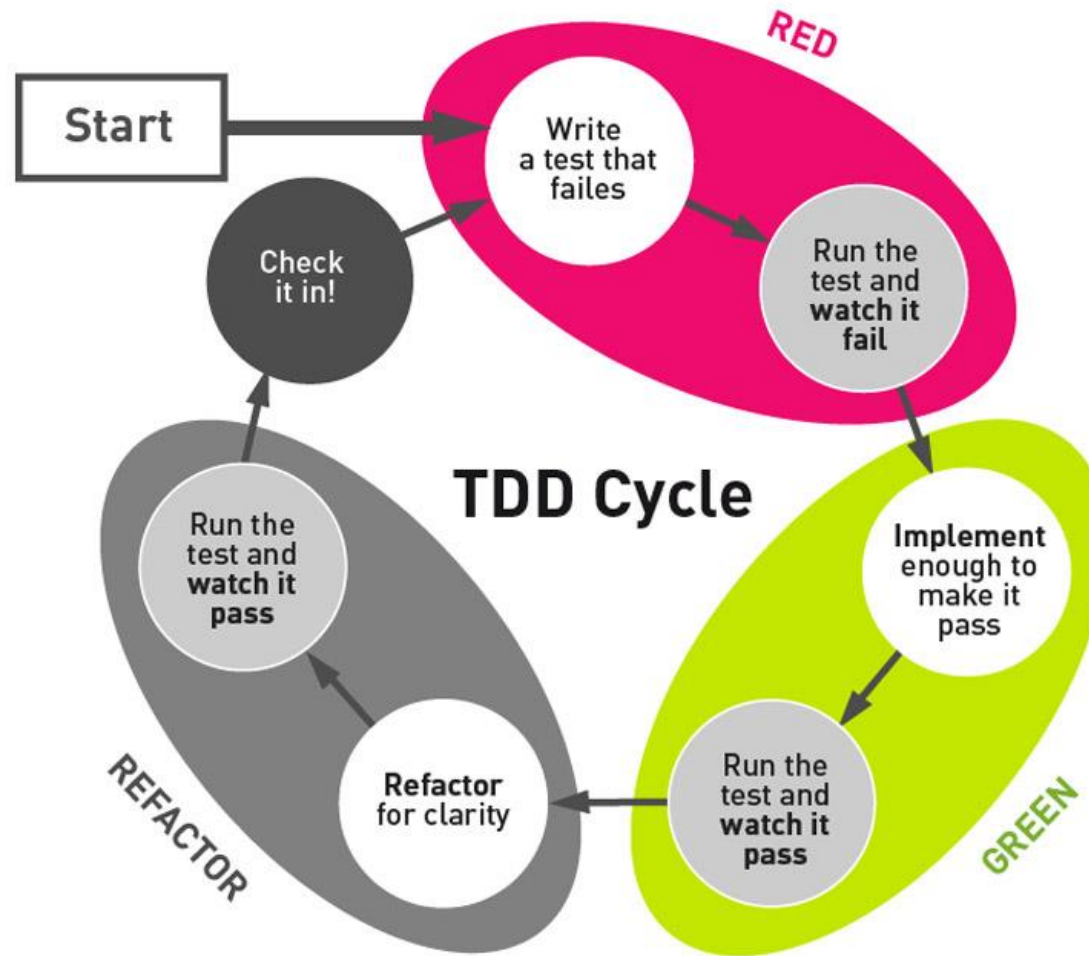
Manual QA

BDD



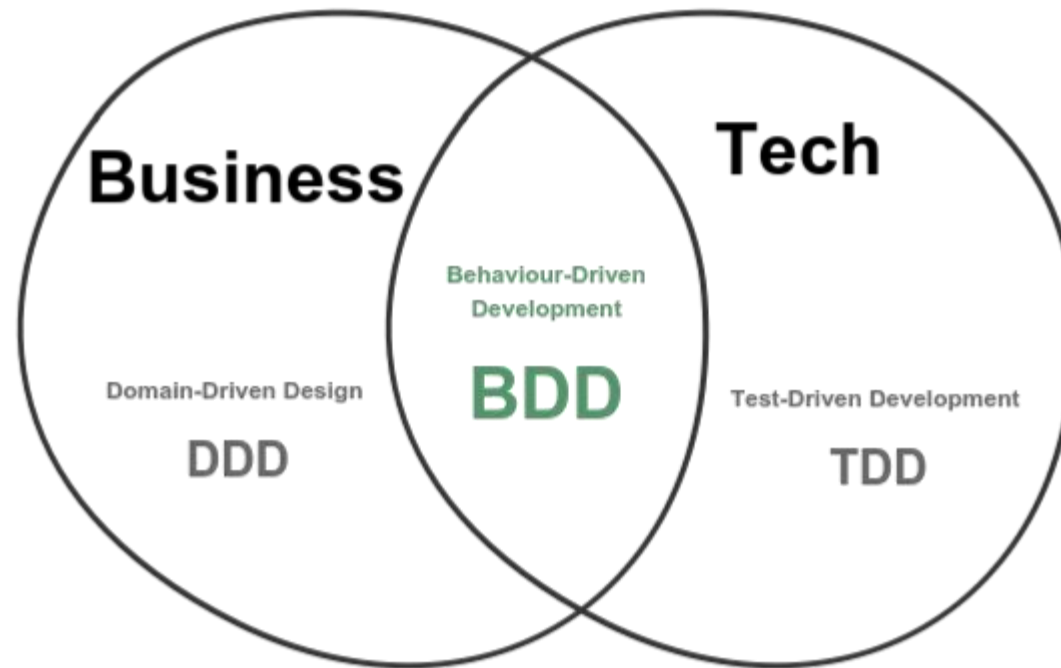
Manual QA

TDD



Manual QA

Як утворився BDD?



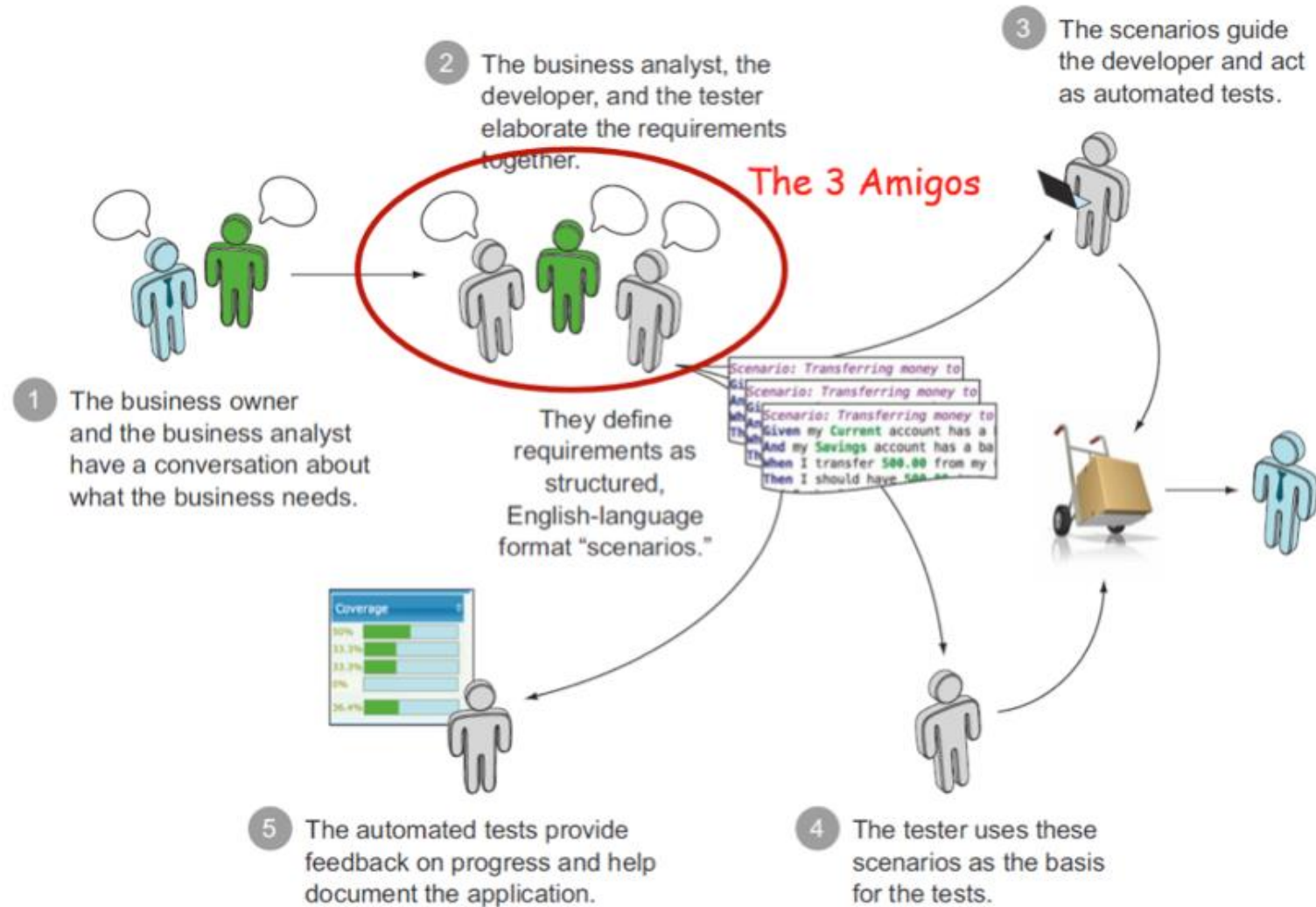
BDD – це синтез зрозумілих вимог від бізнесу та зрозумілого процесу розробки.

Manual QA

BDD тестування та BDD проєкт

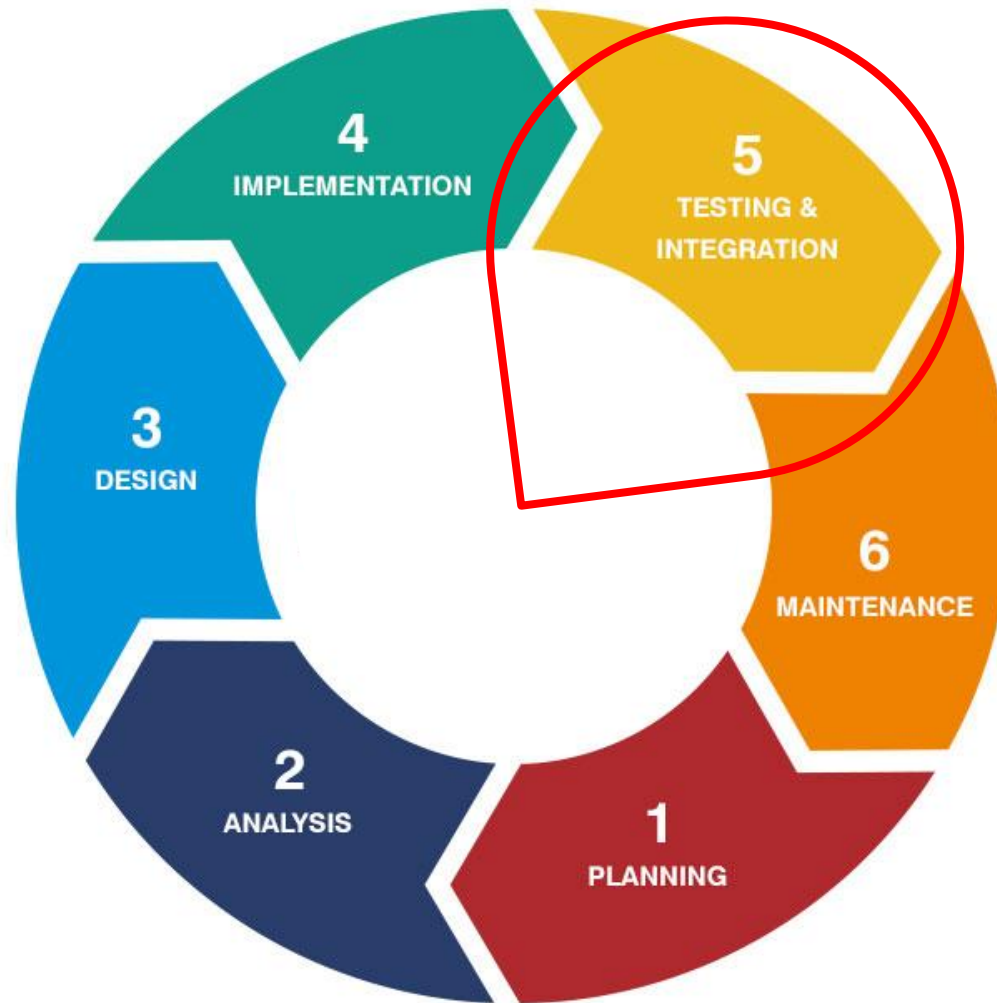
Manual QA

BDD Проект



Manual QA

BDD Тестування



Manual QA

Gherkin сценарії

Manual QA

BDD

Feature: Serve coffee
As a business owner
I want to sell coffee
So that I earn money

Scenario: Buy coffee
Given coffee machine is ready for an order
When Customer order a cup of Latte
Then Customer get a cap of Latte

Manual QA

BDD

Imperative style

Scenario: Buy coffee

Given there are enough 'Coffee' in the machine
And there are enough 'Milk' in the machine
And there are enough 'Water' in the machine
And coffee machine in 'Ready' status
When Customer have deposited '6' dollar
And Customer choose coffee type 'Latte'
And Customer choose coffee size 'Huge'
And Customer press the Start button
Then Customer get a cap of coffee
And Verify that coffee type is 'Latte'
And Verify that coffee size is 'Huge'

Declarative style

Scenario: Buy coffee

Given coffee machine is ready for an order
When Customer order a cup of Latte
Then Customer get a cap of Latte

Manual QA

BDD

```
Feature: Set alarm
  As a light alarm user
  I must be able to update the alarm time
  So I can decide what time to wake up

Background:
  Given I am on the homescreen

Scenario: Set alarm time
  When I set the alarm to "9:03 AM"
  Then I should see the homePage alarm is set to "9:03 AM"

# Same test, run multiple times with different inputs
Scenario Outline: Set alarm time multiple times
  When I set the alarm to <AlarmTime>
  Then I should see the homePage alarm is set to <AlarmTime>
Examples:
| AlarmTime |
| "10:03 AM" |
| "22:59 AM" |
| "6:00 AM" |

# Test run once with multiple inputs
Scenario: Set additional alarms
  When I set up the following alarms
  | "11:00 AM" |
  | "12:00 AM" |
  | "1:00 PM" |
  Then I should see 3 alarms have been set
```

Manual QA

BDD інструменти

Manual QA

BDD C#



specflow
cucumber for .net



Manual QA

BDD Java



Thucydides



Manual QA

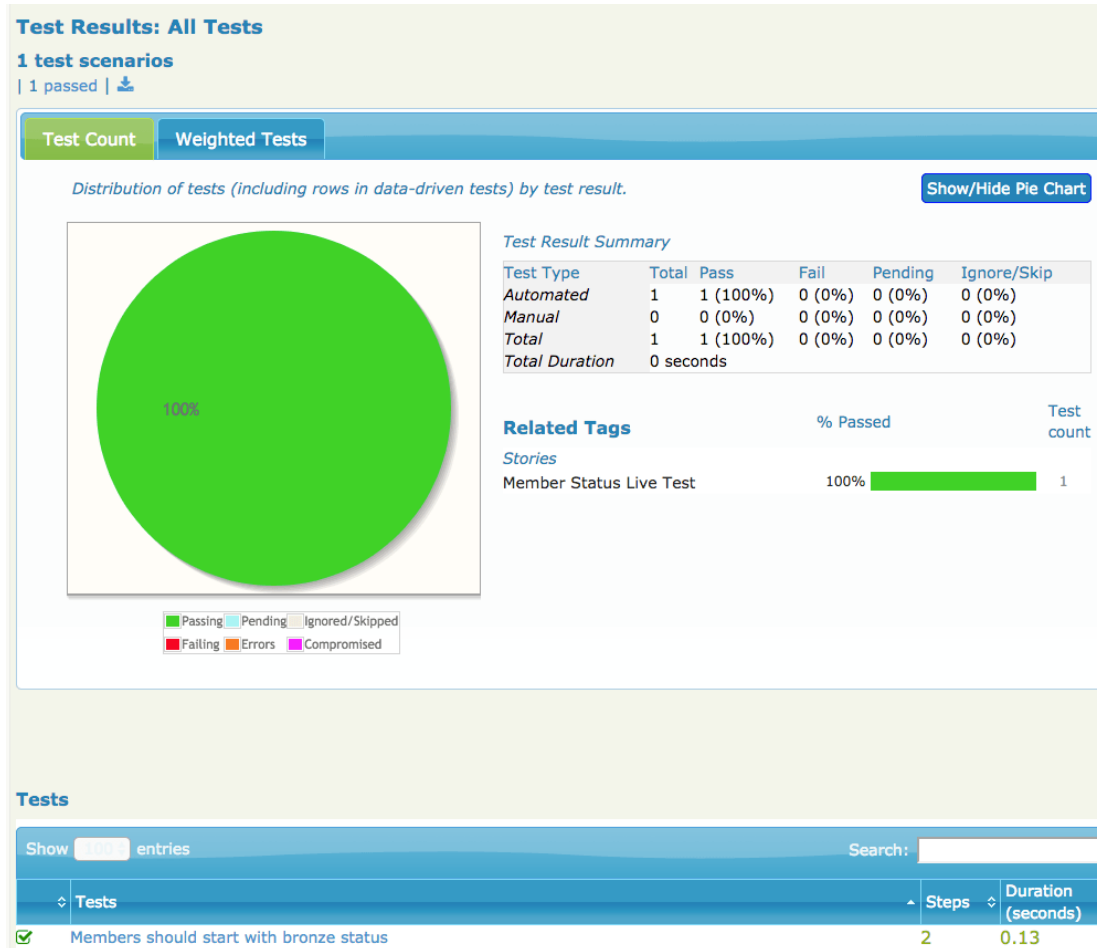
BDD JS



Звіти про тестування BDD інструментів




Manual QA

BDD



Manual QA

BDD

<div><div>Test Outcome</div><div>Should List Items Related To A Specified Keyword</div></div>			
<div>Feature: Search By Keyword</div> <div>In order to find items that I would like to purchase As a potential buyer I want to be able to search for items containing certain words</div>		<div>Searching By Keyword (feature)</div> <div>Search (capability)</div>	
Steps	Screenshot	Outcome	Duration
Given I want to buy a wool scarf		SUCCESS	7.48s
Opens etsy home page		SUCCESS	6.84s
When I search for items containing 'wool'		SUCCESS	2.58s
Searches for items containing: wool		SUCCESS	2.06s
Then I should only see items related to 'wool'		SUCCESS	3.6s
Should see items related to: wool		SUCCESS	3.11s



Manual QA

BDD

Cucumber Report		Features	Tags	Steps	Failures
Project		Date			
No Name (add projectName to cucumber-reporting.properties)		07 Apr 2019, 17:39			

Features Statistics

The following graphs show passing and failing statistics for features



Feature	Steps						Scenarios			Features	
	Passed	Failed	Skipped	Pending	Undefined	Total	Passed	Failed	Total	Duration	Status
List	7	0	0	0	0	7	2	0	2	0.091	Passed
	7	0	0	0	0	7	2	0	2	0.091	1
	100.00%	0.00%	0.00%	0.00%	0.00%		100.00%	0.00%			100.00%

Manual QA

BDD

Cucumber-JVM Report [Jenkins](#) [Previous results](#) [Last results](#) [Features](#) [Tags](#) [Steps](#) [Failures](#)

[@cfa_home_page_verify](#)

Feature Verify the @Chick-fil-A webpage loads correctly and links are accessible in Production

Background Starting position ☐

Scenario View News, Video, and Person Information ☐

Hooks ☐

Steps ☐

When I log into @Chick-fil-A	6s 557ms
Then The CFAHome web page is displayed	102ms
And The @Chick-fil-A logo displayed in top left	070ms
And All menu categories displayed: News, Food, People, Business, Facilities, Reports & Tools	322ms
And The Search bar is in top right	105ms
Then All portlets correctly display information	229ms
When I click on the first news article under Headlines	2s 088ms
Then The news article opens and the title at top of page matches the link	075ms

[Error message](#)

When I click the @Chick-fil-A logo	000ms
Then The CFAHome web page is displayed	000ms
When I click the video play in the video portal	000ms
Then The video begins with both picture and sound	000ms
When In the search bar I enter the name "Bradley", and press Enter	000ms
Then The search results page displays the results for "Bradley"	000ms
When I click on the first result under the People category	000ms
And I click to view the Org Chart	000ms

[Attachment 1 \(png\)](#) ☐

Hooks ☐



Manual QA

Що ми сьогодні вивчали

Manual QA

План уроку

- BDD – що це таке, як утворився, чому популярний
- BDD тестування та BDD проєкт
- Gherkin сценарії
- Інструменти для BDD тестування
- Звіти про тестування BDD інструментів

Manual QA

Підсумки

Що одне, найголовніше, ви дізнались сьогодні?

Manual QA

Дякую за увагу! До нових зустрічей!

Інформаційний відеосервіс для розробників програмного забезпечення

