**BDD**

**(BEHAVIOUR DRIVEN DEVELOPMENT)**

What is BDD

BDD is stand’s for **B**ehaviour **D**riven **D**evelopment, BDD is all about collaboration between teams.

like the business teams and the technical teams in any organisation we have business teams who understand the user’s scenarios and the user modules and how does our users interact with the application.

and then we have technical teams where we have developers testers automation engineers,

who do the implementation part and usually there is a gap between the understanding of business teams and technical teams.

BDD is all about bridging this gap

so using this BDD process we can build a common understanding between the teams on the behaviour of the application

the BDD process generates a common documentation that can be understood by all the teams and all the stakeholders and this documentation serves as a single source of truth for all the teams in the organisation.

3 Phases of BDD

**Discovery**-explore and discuss on how the system should behave

**Formulation**-create concrete examples that can be automated

**Automation**-coding is done based on the documented examples

And create automation scenarios tests taking one example at a time

What is Cucumber:

Cucumber is a tool that facilitates BDD

BDD practitioners may use cucumber to automate their documentation

Cucumber is a tool that understand your documentation and turns it into automated tests

**Cucumber format:**

**1**.Feature: adding 2 numbers

I want to add 2 numbers using calculator

Scenario: add two numbers

Given: I click 9 as first number

And: I click 11 as second number

When: I press add (+)

Then: I should receive the result as 20 on screen.

**2**.Feature: setting the alarm

I must be able to change my alarm time

Scenario: set alarm time

Given: I go to clock application

When: I set the alarm to 9:30 AM

Then: I should see the alarm notification on my homepage is set to alarm time

And: I should see the alarm rings in the fixed time.

**3**. Feature: doing division

I want to do division using calculator

Scenario: division on calculator

Given: I click 9 as first number

And: I click 0 as second number

When: I press division (/)

Then: I should receive the result cannot be divided by 0 on screen.

4.Feature: save the contact

I must be able to save the new contact in my mobile

Scenario: new contact

Given: I go to the home screen

And: I click the “add new contact” button

And: I see the “new contact” screen

When: I should enter the details

And: I click the “save contact” button

Then: I should see the “ contact saved” message