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CHARACTERISTICS OF BEHAVIOR DRIVEN DEVELOPMENT (BDD)

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AGENDA

- PEAK INTO BDD WITH AN ACTIVITY
- SCENARIOS WITH GERKHIN LANGUAGE
- KATA
- BDD IN AGILE WORLD
- CHARACTERISTICS AND BENEFITS OF BDD
- TESTING IN BDD
- DEMO OF BDD TESTING IN JAVA





PEAK INTO BDD WITH AN ACTIVITY

- Gathering requirement or Testing framework?

PEAK INTO BDD WITH AN ACTIVITY

- Gathering requirement or Testing framework?

Customer requirement	Our Solution
	
<ol style="list-style-type: none">1. Have one trunk2. Have four legs3. Should carry load both passenger & cargo4. Black in color5. Should be herbivorous	<ol style="list-style-type: none">1. Have one trunk <input checked="" type="checkbox"/>2. Have four legs <input checked="" type="checkbox"/>3. Should carry load both passenger & cargo <input checked="" type="checkbox"/>4. Black in color <input checked="" type="checkbox"/>5. Should be herbivorous <input checked="" type="checkbox"/> <p>Our Value add: Also gives milk ☺</p>

SCENARIOS WITH GERKHIN LANGUAGE

- Common Language
- Feature files
- Keywords

Feature, Scenario, Given, When, Then, And,
But, Scenario Outline, Examples...

SCENARIOS WITH GERKHIN LANGUAGE

- Feature: Add two numbers
- Scenario: two positive integers
- Given numbers 10 and 20
- When add the numbers
- Then resultant sum is 30
- Scenario: two negative integers
- Given numbers -15 and -30
- When add the numbers
- Then resultant sum is -45

KATA

Check Out feature in a Shopping Cart

- Check out one item in the cart
- Check out multiple items in the cart
- Add items in wish list if available when Check out happens
- Check out with discounts on some products
- Check out with discount coupons on some products
- Check out handling change in product price after adding to cart

BDD in Agile World

- How does it fit into Agile World?
- 3 Amigos
- Acceptance Criteria

CHARACTERISTICS AND BENEFITS OF BDD

- Common understanding of Requirement across stake holders thru Collaboration
- Everyone in the team contributes to refine requirement, enhances ownership and knowledge
- Together explore the behaviors
- Deliver what user wants
- Clear, precise examples as Acceptance Criteria, no ambiguity
- Segregate Behavior and Implementation
- Team has a living document
- Team delivers behaviors (possibly on a daily basis), enables faster feedback cycle
- Test the Behavior daily!

TESTING IN BDD

- Test Pyramid
- Use plugins like Cucumber, Jbehave in Java, SpecFlow in .Net
- StepDefinitions
- Integrate with CI

DEMO OF BDD TESTING IN JAVA

- Java App - Shopping Cart's Check Out Feature
- Demo Code available @ <https://github.com/XP2016India/The-Characteristics-of-BDD>

References

Pic:

- Customer Requirement vs Our Solution – Unknown Source

Books:

- Specification by example - Gojko Adzic
- The Cucumber for Java Book - Seb Rose, Matt Wynne, Aslak Helleoy

Q & A

THANK YOU

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