

Delivering value with BDD

RITESH MEHROTRA

Hello!

RITESH MEHROTRA

DEVELOPER. AGILE CONSULTANT. SPEAKER

@riteshmehrotra



>Open knowledge sharing and learning community

> Tech sessions, Workshops and Code kata

>Blockchain, agile methodologies, JS frameworks, AI, ML, Big data & Analytics

<u>https://www.meetup.com/techtalkssg</u>

Agenda

>The curious case of software development

➢A gentle introduction to BDD

- ➢BDD in practice
- ➤ Tools and Techniques
- ≻Q & A



What if?

- Eliminate the ambiguity from specifications
- Preserve information at a single source of truth
- Develop a common language across business and project team
- •Focus on building the most valuable features
- •Visualize in real time the progress of product development and provide feedback

Say Hello! to BDD

BEHAVIOR DRIVEN DEVELOPMENT

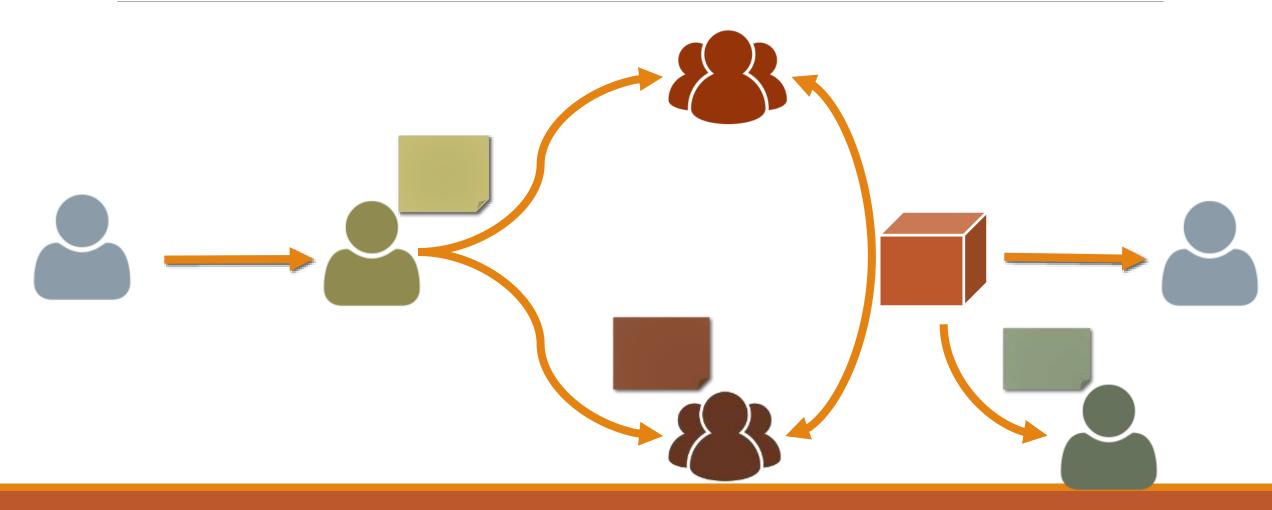
Set of techniques and patterns

Helps translating business knowledge to software in an iterative manner

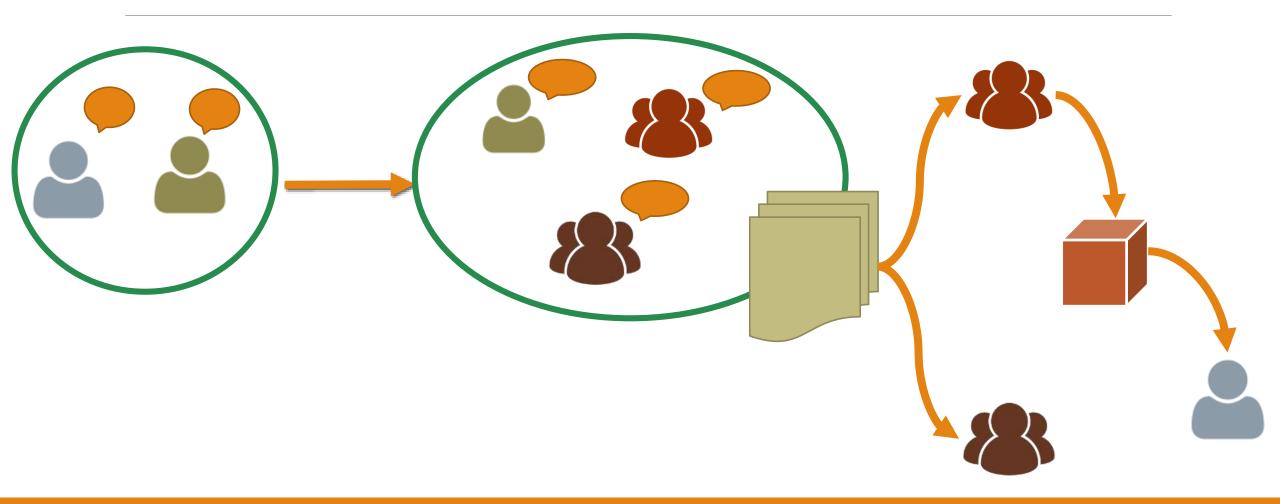
Focus on business value

Achieved through <u>continuous</u> collaboration between business stakeholders & project teams

Traditional workflow



BDD workflow



Expressed with Gherkin

Gherkin specification

Feature: <>

Scenario: <>

 Given
 : < >

 And/But
 : < >

 When
 : < >

 And/But
 : < >

 Then
 : < >

 And/But
 : < >

Gherkin specification

Feature: Recording a session

Narrative: In order to replay it later for audience who could not attend, as a speaker, I want to record this session

Scenario: Start the recording

Given: I am a speaker at this session

And: I have placed a camera in the room

When: I start the recording

Then: The session should get recorded

Let's code



Code sample: <u>https://github.com/riteshmehrotra/BDD</u>

BDD deep dive



Whose behavior?

➢ Business

≻Consumer

- Customers/Beneficiaries
- Staff
- Govt. Agencies/Regulatory/Audit



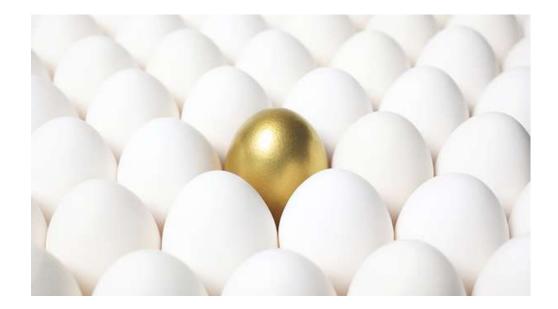
What is value?

Increase profit

Protect profit

Reduce cost

>Avoid future cost

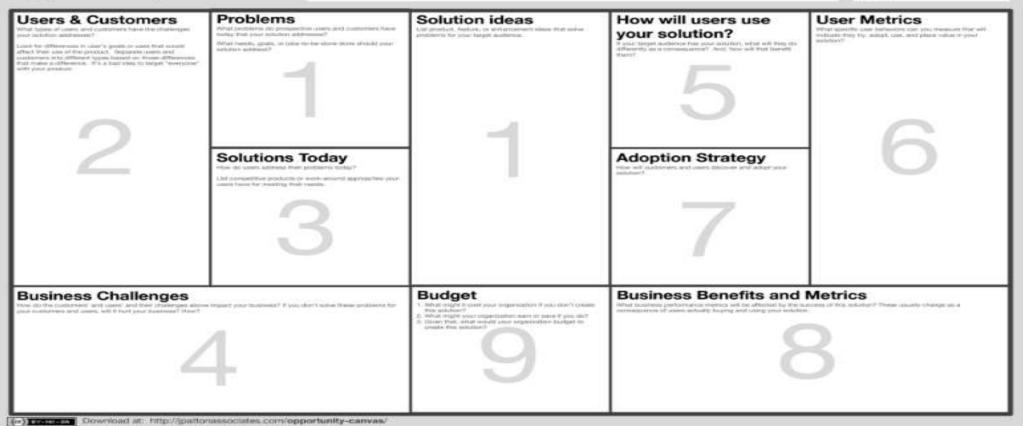


Where is value?



Opportunity canvas

Opportunity Canvas



Date:

Vision statement

For <target customer> Who <has a certain problem> The <product name> Is a <product category> That <will provide key benefits> Unlike <alternative from competitor> Our product <key difference>

Feature injection

Hunt the value

(Why?) * 5



RCA example

The system is currently down

Why?

The underlying authentication service is failing so we cannot log in

Why?

The authentication service cannot connect to repository

Why?

The connection parameters are incorrect

Why?

There was a change in database host name which was not updated in authentication service

Applied to goal discovery

We want to offer \$ 25 cashback for customers who do less than 10 withdrawals a month? Why do you offer that?

A promotion will encourage more customers to do lesser withdrawals

Why do you want to encourage them?

By means of that, we want to promote cashless transactions

Why so?

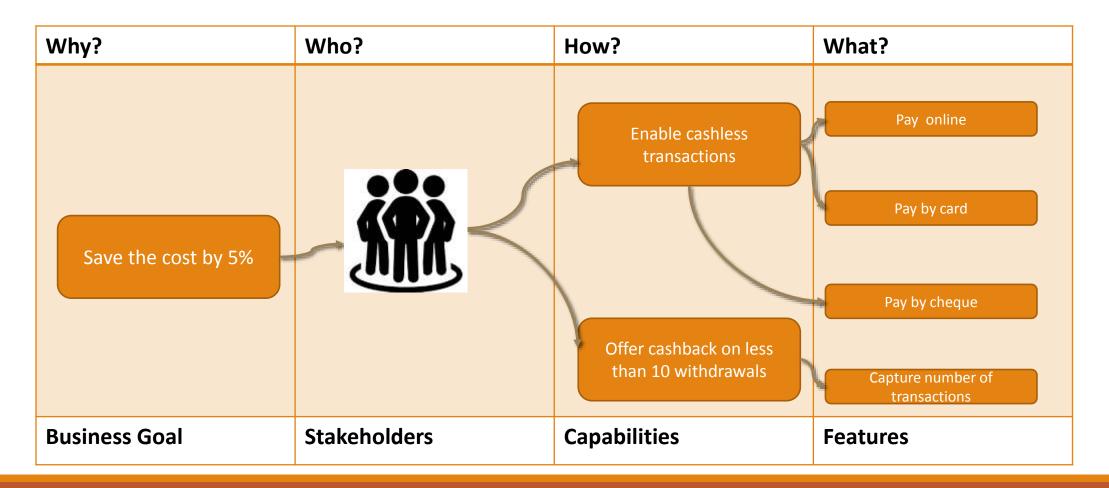
Because we want to reduce usage of ATM

Why?

Maintaining the ATMs is an additional cost, and our analysis suggests that we will be able to save cost by 5% by reducing usage

Injecting a feature

Impact map



Seek examples

Seek example

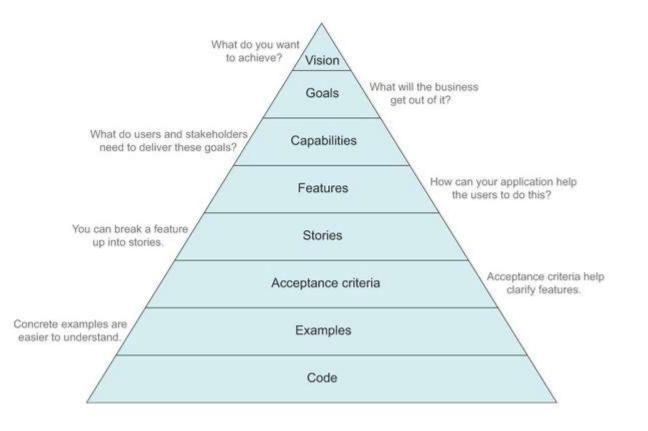
"Can you give me an example?"

Precise specifications so delivery teams avoid rework caused by ambiguity

Objective way to measure when work is complete

Described in book "Specification by Example" by Gojko Adzic

Approach



Source: BDD in action

Recap

Enhanced business - IT collaboration

Aligned to the business value

>A single source of truth – equally understood by business and development teams

References

BDD in action – James Smart Fergusen

Specification by example – Gozko Adzic



