# As a (USER) I want to (DO THIS) so that I can (ACHIEVE THAT)

#### **User Stories**

Short, simple descriptions of a feature told from the perspective of the customer



## What is a User Story?

#### From Mike Cohn:

- "User Stories are a part of an Agile approach that helps shift the focus from writing about requirements to talking about them..."
- "All Agile User Stories include a written sentence or two, and, more importantly, a series of conversations about the desired functionality."

Source: https://www.mountaingoatsoftware.com/agile/user-stories

#### The 3 C's of User Stories

CARD

CONVERSATION

CONFIRMATION

#### The INVEST Model

#### INVEST is an acronym that captures the ideal qualities of User Stories:

- **Independent:** The User Story is not dependent on other Stories.
- **Negotiable:** The User Story can be changed, rewritten, or split (prior to being committed to a sprint).
- Valuable: The User Story must deliver value to the end user.
- **Estimable:** The Development Team must be able to estimate the User Story's size.
- **Small:** Every User Story has to be sized appropriately to fit into a Sprint.
- **Testable:** The User Story is capable of being tested.

# What's the difference between User Stories and Requirements?

	USER STORIES	REQUIREMENTS
Who creates?	"3 Champions" to Full Teams	Typically only the Business
Level of detail	Just enough; open for negotiation	High level of detail, specific; tends to cover all possible combinations
Time to create	Quick, placeholder for further conversations and elaboration	Can be laborious, taking significant time to complete
When to create?	Create when/as needed; reflect current needs	Created far in advance; reflect needs at a particular point in time, typically in the past
Primary Info Transmission	Collaboration emphasized, write down only what's needed after discussion	Written documentation
Hand-offs	Low amount of hand-off; expectation for collaboration	Tendency for high amount of hand-offs – business to IT, IT to Quality, Quality to
Change Control	Experiment, learn, expectation for change	Lock down then implement significant effort process for changes

#### **User Story Format**

- •As a...
  - [Who? Insert the User]
- •I would like to...
  - [What? Insert what they want to do]
- •so that...
  - [Why? Insert the Business Value]

# **Example Stories – Hypothetical Promotion Enrollment:**

#### As a...

Premium Member

# I would like...

to be automatically enrolled in all eligible promotional offers

#### so that...

I can take advantage of benefits without having to manually enroll.

#### **As a...**

Non-premium Member

# I would like...

to enroll in promotional offers

#### so that...

I can take advantage of special incentives on my purchases

# Implementation Details vs. Value of Implementation

#### As a...

Supervisor

## I would like...

to run a report

#### so that...

I can see how many registrations for promotions have been made for Premium and Non-Premium members.



#### As a...

Call Center Supervisor

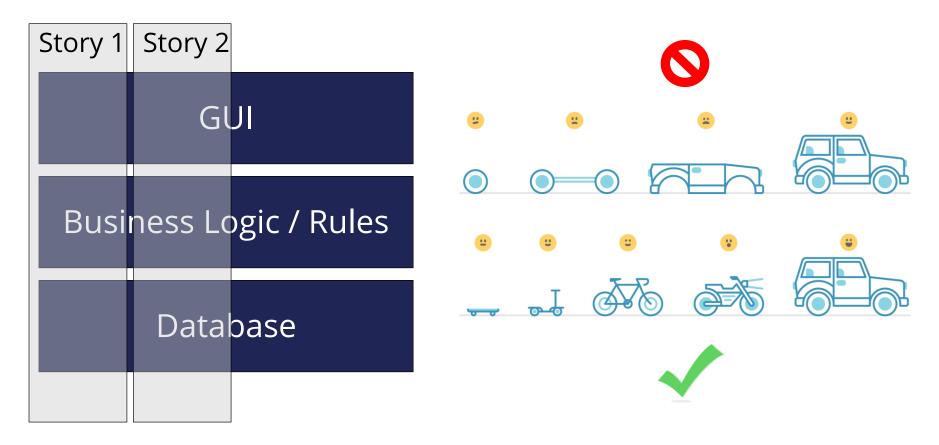
#### I would like...

to see in real-time how many customers have registered for a promotion

I can make adjustments as needed to promotion enrollment scripts and awareness.



#### **Deliver User Stories as Vertical Slices of Functional Product:**



## **User Story descriptions are not enough...**

#### You also need Acceptance Criteria to better describe expected outcomes.

#### Acceptance Criteria characteristics:

- A list of outcomes that enable a Product Owner to accept a User Story
- Adds clarity to the story's deliverables
- Provides a guide to developers for effective testing
- Helpful for further documentation
- A good tool for splitting up work and negotiating the schedule of deliverables

#### Suggested format:

– "This story is done when...[insert outcomes, not implementation details]"

# **Example Acceptance Criteria - Hypothetical Promotion Enrollment:**

#### As a...

Premium Member

# I would like...

to be automatically enrolled in all eligible promotional offers

#### so that...

I can take advantage of benefits without having to manually enroll.

# This story is done when:

- Premium member is enrolled automatically 1 week before the promotion start date.
- Premium member receives email they've been enrolled.
- Account rep for top 10% of Premium members is notified.

## User Stories are not "requirements" nor detailed specs...

- They are intended to be "placeholders for further conversations" they are not intended to be fully defined specifications down to detailed minutiae.
  - Details of exactly what will be required will be built in collaboration between business and IT.
  - Focus on the "why" (outcomes) and not the "how" (implementation details).
- They will be progressively elaborated over time:
  - User Stories at the top of the product backlog (highest priority) will have the most detail.
  - User Stories at the bottom of the product backlog (lowest priority) may have just a title.
- How much detail is needed for a User Story to be ready?:
  - Enough for the team to Size and Task the story.
  - This can be in conflict with traditional DCO practices.

## **Special Story Type - Spikes**

- There are times when you may not know enough to deliver a User Story (incremental value) directly to a customer.
- You may want to gain clarity on...
  - Do we have a problem?
  - Does our proposed solution solve that problem?
  - Is our proposed solution technically feasible?

#### • Use a Spike!

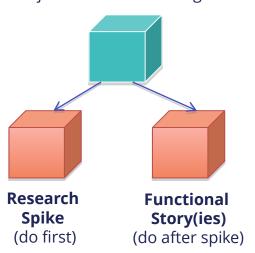
- Be sure that the "so that..." clause clearly identifies what you are going to do with the information once you have it.
- Acceptance Criteria is still necessary.
  - What is it that you need to know?
- This is a special case use Spikes sparingly
  - The presence of multiple spikes indicates you may not have enough clarity on the problem and/or solution

## **User Stories must fit within the Sprint**

The Goal is to deliver potentially shippable product at the end of each iteration...

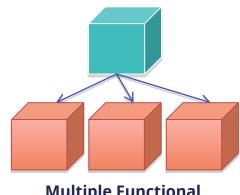
#### **Complex Problems**

"We just don't know enough..."



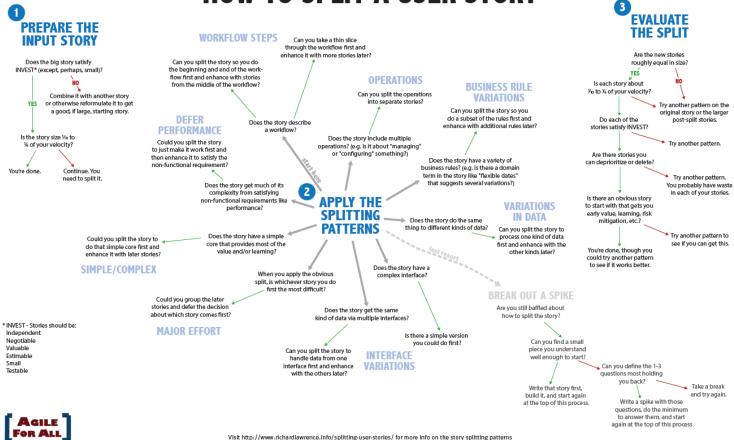
#### **Compound Problems**

"Its just too big."



Multiple Functional Story(ies) (prioritized)

#### **HOW TO SPLIT A USER STORY**



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## Do you have an Epic?

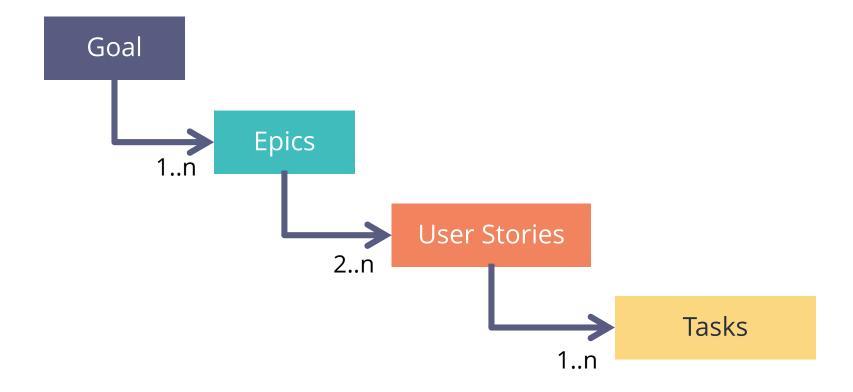
#### What is an Epic?

- Typically represents a large chunk of work
- Consists of (2) or more User Stories

#### What are the characteristics of an Epic?

- Still follows the same format as a User Story (title, description, Acceptance Criteria)
- Lives in the Product Backlog
- Unlike User Stories, the delivery of Epics can span multiple sprints
- Often start with Epics that eventually get decomposed into User Stories
  - But, can also take a group of User Stories and create an Epic as well

# **Relationships between Epics and User Stories**





#### **Definition of Done (DoD)**

• Having User Stories and Acceptance Criteria are usually not enough to say a story is releasable.

#### Definition of Done:

 Set of activities required for User Stories to be considered complete so that the increment of product functionality can be "potentially shipped" if desired

#### • Some examples of a Definition of Done (DoD) could be:

- Code/Rules reviewed
- Unit testing added to automation testing suite and all Unit tests pass (not just for code added this sprint)
- Regression test suite updated
- User documentation (as required) is completed/updated

#### • The Development Team and Product Owner (PO) need to come to agreement on DoD before planning the first sprint

- DoD may vary from team to team that's OK as long as it's transparent
- If multiple teams/POs are involved, there needs to be common agreement
- DoD often evolves over time as Dev Teams become more proficient

