

USER STORIES

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Outcomes



After today's lecture you will:

- Have an understanding of user stories
- Have an understanding of how user stories relate to requirements
- Have an understanding of how to put user stories into practice



Introduction



- The User Story practice is a popular practice, in particular for small teams.
 - It originated from Extreme Programming (XP), a lightweight, efficient, low-risk way to develop software.
 - User stories have the benefit of getting the team to think, inquire and understand the value of what they do from the point of view of their users.

Introduction



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 - It originated from Extreme Programming (XP), a lightweight, efficient, low-risk way to develop software.
 - User stories have the benefit of getting the team to think, inquire and understand the value of what they do from the point of view of their users.

- The User Story Lite practice is a simplified version of the User Story practice
 - It was created just for the readers of this book to understand how to Essentialize a practice and how to use an Essentialized practice



User Stories Explained



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• A user story describes functionality in the system we are building that is valuable to a user of a system.

- A user story includes a written description that is used when discussing the story along with tests to help communicate what is needed to complete the story.
 - The idea of user stories is to provide a way to facilitate discussion to help clarify who (i.e. a role) a
 piece of functionality is for and how it benefits the role.





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As a <role, of type of user>, I want to < list here the function you want the system to do>, so that <list here the object you want to achieve>



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As a bank customer I want to have a direct deposit capability so that my employer can electronically send me my paycheck.







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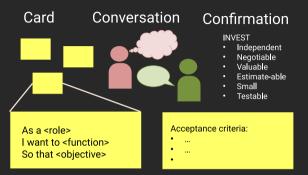
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Who – will get the value? What – do we need to achieve? Why – are we doing it?

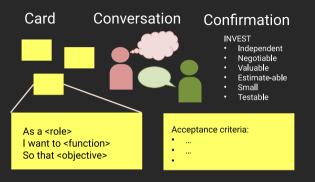






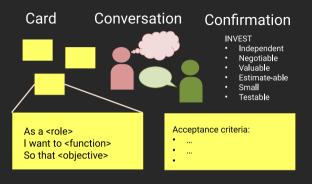






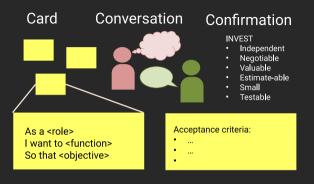
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- Conversation the actual users of the proposed system and developers discuss what is needed to converge on the best solution
- Confirmation acceptance criteria, captured as bullet-point statements, which can be captured on the back of the Story Card.



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 - Stories that are too large to fit within an iteration are referred to as Epics.
- **6.** <u>Testable</u> when completed it has to be *testable*
 - Writing the tests first helps ensure the story is testable and helps ensure both users and developers are in agreement on what it means to complete the story.



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- This helps to support evolutionary requirements development.
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• To ensure developers understand the end objective of the user

- This helps to support evolutionary requirements development.
 - By evolutionary requirements development we mean that the requirements may evolve as we learn more about the available options and needs of the user.
- This also keeps the developer's options open in providing alternative solutions.

User Stories Essentialized Practice



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- Our goal is to show how to essentialize a Practice
 - This is a Lite practice because we have selected what we deem as a minimal core of the practice
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- How to describe the User Stories Lite Practice using Essence?
 - The first questions we always ask when essentializing a practice are:
 - What are the things you need to work with?
 - What are the activities you do?





 Requirements are decomposed into User Stories



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- Each User Story is:
 - Described by a Story Card
 - Verified by a Test Case
 - Singleton work products for each User Story



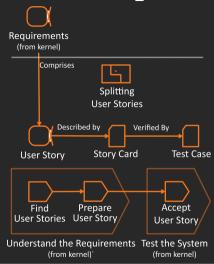


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- A pattern Splitting User Stories represents the approach to help teams split user stories to ease development







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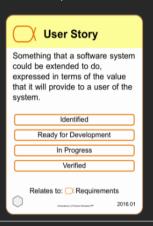


A User Story progresses through the following states:

Identified – The user story is identified with its value clearly expressed. It is
placed in the team's product backlog.



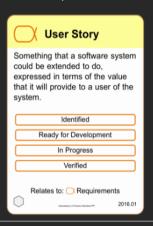
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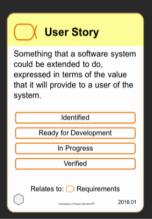


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- Verified The user story implementation is verified by a qualified user representative, such as a member being the Product Owner.



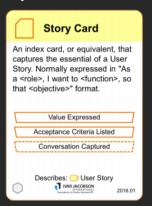


Computer Science

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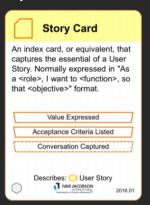
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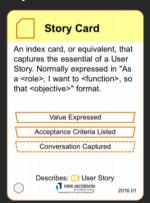
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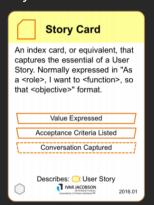
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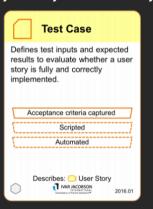
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- Acceptance Criteria Listed The acceptance criteria for the fulfillment of the User Story are clearly expressed.
- Conversation Captured The discussions the team has about the User Story
 are captured so that the team understands more clearly the requirements for
 the user story and the rationale behind the details of the User Story.
 - These discussions are usually verbal, but can be written on the story card itself or some electronic means





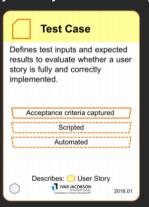
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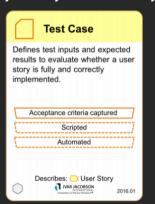


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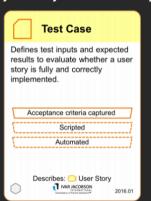


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- Scripted The step-by-step procedure for testing and accepting the user story is available. This necessitates also the preparation of test data and test environment used when executing the test case.
- Automated The test case is automated and can be executed with little or no intervention





Computer Science

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- 1. Smith's team members sometimes found themselves wondering about the purpose of the system they were developing.
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Working with User Stories involves several activities:

- First the team needs to find user stories, prepare each user story for development, and then accept the implementation
 of the user story
- The implementation of the user story, (i.e., writing and testing code), is outside the scope of the User Story Lite practice
 we are describing
 - It is expected to be addressed by another practice such as the microservice practice presented later.



Find User Stories Activity

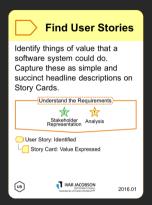




- The Find User Stories activity is about agreeing on how the users are going to use the Software System for something that brings value to them.
 - For each User Story found, a Story Card is created with a simple headline and the value expressed.

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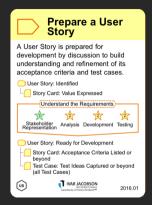


- The Find User Stories activity is about agreeing on how the users are going to use the Software System for something that brings value to them.
 - For each User Story found, a Story Card is created with a simple headline and the value expressed.
- The card indicates that:
 - The Story Card needs at a minimum to achieve the Value Expressed level of detail
 - The user story alpha needs to achieve the Identified state



Prepare a User Story Activity





- The Prepare a User Story activity is about discussing how the user will interact with the system
 - The discussion aims to achieve a better understanding of the system to be developed, estimate the effort to implement and describe the acceptance criteria

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 - The user story alpha needs to achieve the Ready for Development state by having:
 - The Story Card to have achieved a minimum of Acceptance Criteria Listed level of detail
 - The Test Case needs to have achieved at a minimum the Test Ideas Captured level of detail





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Together as a team they expressed the user stories as shown:

As a traveller, I want to have destinations I like to be ranked higher than other destinations so that it is easier for me find these destinations

Acceptance criteria:

- A visited destinations ranks higher than a non-visited one
- A "liked" destination ranks
 higher than a "non-liked"

 destination

As a traveller, I want to have popular destinations ranked higher than other destinations so that it is easier for me find these destinations

Acceptance criteria:

- Each destination visited by a traveller will be given a higher score
- Each destination liked by a traveller will be given a higher score

As a TravelEssence promotion staff, I want to track the actions on the recommendation list so that I can improve the quality of the recommendation and user experience.

Acceptance criteria:

- Count the clicks, likes and booking on each recommendation destination by specific traveller and travellers in general.
 Touck that they work
- Trend chart by day, week, month of top N destinations





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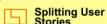


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- Angela mentioned that expressing the requirements in a user story format demanded more effort from her
 - But after some discussion, she agreed that this small upfront investment was worthwhile because it made her think more about what she wanted.



Applying Splitting User Stories Pattern





Small things get done faster. In agile development there is a continuous and relentless drive to reduce the size of User Stories by splitting bigger Stories into smaller ones. The key is to ensure that each Story delivers value:

- Splits should support meaningful user interactions, no matter how small or "specialised" (think "thin end-to-end journey / slice") not technical architecture "dice" (e.g. front-end without back-end)
- Remember: each and every Test Case is a potential new Story.

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 - The outcome are smaller stories that are more aligned to the INVEST criteria
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- Having smaller stories, with clear test criteria, makes each story easier to complete
 - This rewards team members with a sense of achievement, and
 - Improves team member progress assessments



TravelEssence Splitting User Stories

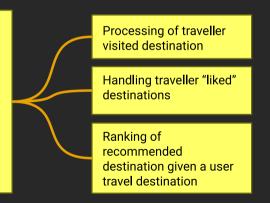


As an example, this Figure shows how the first user story was split into 3 smaller ones:

As a traveller, I want to have destinations I like to be ranked higher than other destinations so that it is easier for me find these destinations

Acceptance criteria:

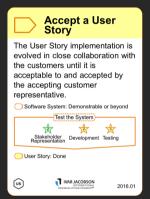
- A visited destinations ranks higher than a non-visited one
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Accept a User Story Activity





- The Accept a User Story activity is about having the customer representative accept that the User Story is implemented
 - The card indicates that:
 - The user story alpha achieve the Done state

Accept a User Story Activity





- The Accept a User Story activity is about having the customer representative accept that the User Story is implemented
 - The card indicates that:
 - The user story alpha achieve the **Done** state

TravelEssence

- Acceptance criteria expressed clearly was an investment that paid off as developers had a clearer idea what had to be done
 - The result was reduced disagreements when accepting the story.
- Over the course of the delivery of each user story, they regularly communicated with Angela and with each other regarding the details of the user story.
 - Angela also participated in the acceptance of each user story
 - Whenever issues arose during the sprint, she worked with the team to refine the acceptance criteria



The Value of the Kernel to the User Story **Practice**



• By describing the User Story practice in an essentialized form (i.e., activity cards showing relationships to alphas being progressed) we can see which alphas are being progressed and where the requirements practice still had weaknesses.

User Stories | Dr. Isaac Griffith.

The Value of the Kernel to the User Story Practice

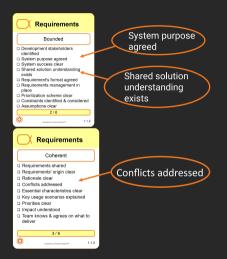


- By describing the User Story practice in an essentialized form (i.e., activity cards showing relationships to alphas being progressed) we can see which alphas are being progressed and where the requirements practice still had weaknesses.
- Specifically the User Story practice helps achieve the following Essence kernel alpha states:
 - Requirements alpha: Bounded and Coherent state
 - Work alpha: Prepared state
 - Requirements alpha: Acceptable state



Requirements Alpha: Bounded and Coherent

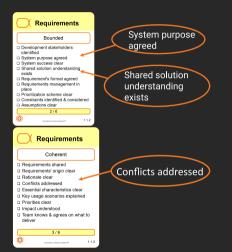




The explicit activities in the user story practice directly supports the team in achieving key checklists within the Requirements alpha: Bounded and Coherent states.

Requirements Alpha: Bounded and Coherent



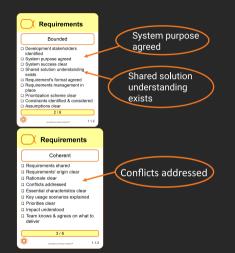


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- The User Story practice encouraged stakeholders and team members to discuss and therefore:
 - agree on the purpose of the new system,
 - helping everyone involved to achieve a shared understanding of the extent of the proposed system

Requirements Alpha: Bounded and Coherent





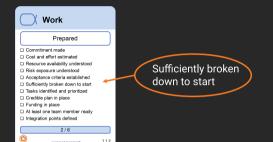
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- The User Story practice encouraged stakeholders and team members to discuss and therefore:
 - agree on the purpose of the new system,
 - helping everyone involved to achieve a shared understanding of the extent of the proposed system
- Discussions helped both the team members and stakeholders to
 - work through issues related to potentially conflicting requirements



Work Alpha: Prepared state

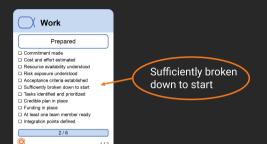




Achieving the Prepared state of the Work alpha was helped by the User Story practice

Work Alpha: Prepared state



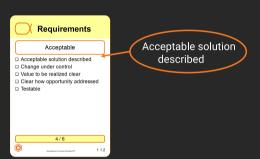


Achieving the Prepared state of the Work alpha was helped by the User Story practice

- Because it encourages the splitting of each user story
 - In order to break the requirements down into tasks that the team could estimate and commit to completing within a single sprint.

Requirements Alpha; Acceptable state

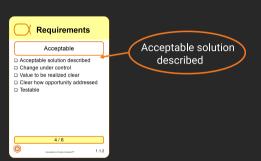




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Requirements Alpha; Acceptable state





- The explicit activities in the User Story practice directly supported the team in achieving key checklists in the Requirements alpha: Acceptable state.
- The User Story practice encouraged acceptance criteria to be agreed to
 - This led the team to the importance of describing clear test steps that would lead to an acceptable solution



Impact of User Stories Practice for the Team



- The three activities in the User Story practice only cover two activity spaces
 - No activity covers the "Shape the System" activity space
 - This is the activity space that deals with the structure of the solution area including the structure of requirements

Impact of User Stories Practice for the Team

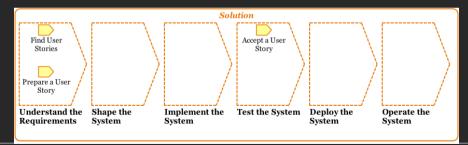


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- The User Stories practice helped the team progress forward with multiple Essence Kernel Alphas
 - Yet, it did not solve all the challenges the development team faced with regard to progressing the Requirements and the Work alphas to satisfy the Product Owner
 - They had a list of user stories, but not how stories were related to one another
 - In the following lecture we will present Use Cases

For Next Time

Idaho State Comy University

- Review Chapter 15
- · Review this Lecture
- Come to Class
- Read Chapter 16
- Watch Lecture 16 Video







Are there any questions?