

Workshop: Effective User Stories

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www.inspireqs.ie - Agile Training & Coaching

- CSM, PSM, PMI ACP, etc.

- ISTQB Software Testing

Agenda



- Understanding User Stories
- Workshop exercise
- (Roles, Backlogs and Planning)

What's Wrong with 'Requirements'?

- Mandatory, Fixed, Hard to Change
- Feature Centric rather than Value Centric
- Specify the What, not the Why
- Critical bits hidden in the detail
- Expensive
- Slow us down
- Easy to verify, Hard to validate



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Communication Modes Face-to-face at whiteboard Face-to-face conversation Video conversation Synchronous Bi-Directional Videotape Email conversation Wiki? Audiotape Asynchronous Bi-Directional Wiki? Asynchronous Social Networking? Asynchronous Implication Channel Copyright 2006-2008 Social V. Analese Original Diaguam Copyright 2002 Alleaic Cosbaum http://www.agilemodeling.com/essays/communication.htm © 2012 Inspire Quality Services / AgileInnovation

What is a User Story?

172 : ADD ITEM TO BASKET

I want to add lens to a banket

SO THAT I can review them later

AS A customer

PEIDEITY: 8

- A Written Card
 - For Planning
 - A Promise to Talk
 - Spec by Example
 - Acceptance Criteria
- It Defines
 - The Actor/User/Persona
 - The Goal/Action/Task
 - The Benefit/Value

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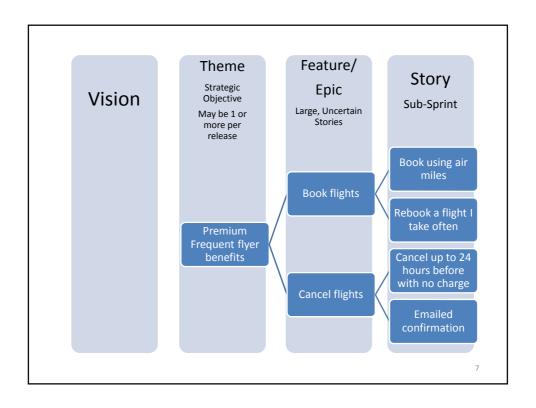
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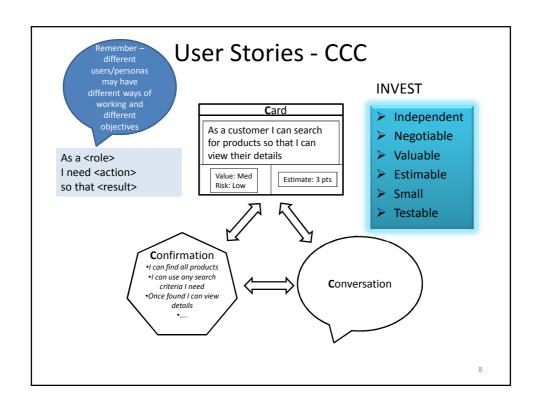
Why User Stories?



- <u>User</u> Centric what's important to your customer
- <u>Story</u> the power of narrative emphasizes verbal communication and defers details
- Focus on the benefit, the value, what's important
- Supports 'pull' of information as its needed
 - Iterative development and planning

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User Story Example – Email Attachments

Email Attachments.

As a user I want emails with attachments to go faster so that I can work more efficiently

Confirmation:

- User notices emails with attachments go at least twice as fast
- Works with attachments up to 10MB
- Works with up to 50 attachments

CONVERSATION:

- What if attachment already compressed?
- What if it's a small file to start with?
- Should we store the compressed version?
- Should we allow user select compression options?
- Would up to 100 attachments be enough?
- Can each attachment be up to 10MB?

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User Story Example - Hotel Reservation

Reservation Cancellation

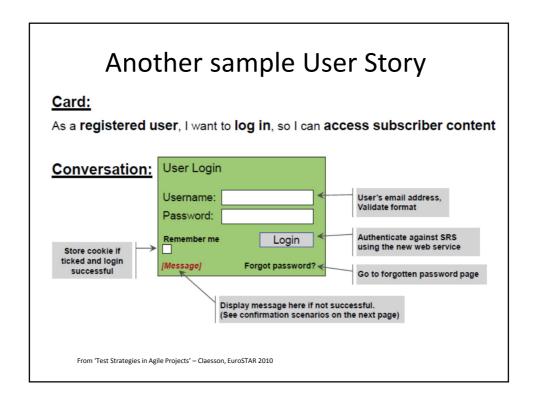
As a user I want to cancel a reservation so that I avoid being charged full rate

Confirmation:

- Verify a premium member can cancel the same day without a fee
- Verify a non-premium member is charged 10% for same day cancellation but otherwise not charged
- Verify an email confirmation is sent to user with appropriate information
- Verify that the hotel is notified within 10 minutes of a cancellation

CONVERSATION:

- What if I am a premium member – do I have charges?
- When is a non-premium member charged and how much?
- How do these vary depending on when cancellation occurs?
- Do we need to send the user confirmation by email?
- When does the hotel need to be notified?
- What if the user has paid a deposit?



Another sample User Story continued

Confirmation (conditions of satisfaction):

Success Valid user logged in and referred to the home page

- a)Valid user name and password
- b)"Remember me" ticked -Store cookie/automatic login next time
- c)"Remember me" not ticked -Manual login next time
- d)Password forgotten and a correct one is sent via email

Failure Display message:

- a)"Email address in wrong format"
- b) "Unrecognized user name, please try again"
- c)"Incorrect password, please try again"
- d)"Service unavailable, please try again"
- e)"Account has expired -refer to account renewal sales page"

Right level of detail?

Purpose of confirmation/acceptance criteria

define the boundaries for a user story/feature

help the product owner answer what she needs in order for this feature to provide value (typically these are the minimum functional requirements)

help the team gain a shared understanding of the story/feature

help developers and testers to derive tests

help developers know when to stop adding more functionality to a story

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Level of detail in confirmation/acceptance criteria

Try to keep relatively high level

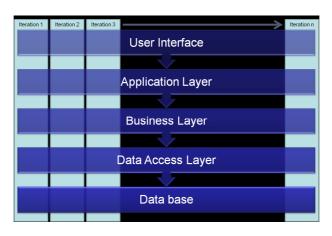
Detail goes into

- Memory for immediate implementation
- Internal team documentation (notes) can include wireframes and screen mockups, validation rules, etc. attach to story
- (Automated) Acceptance tests (ideally defined to be understood by all)

Note: examples/scenarios make excellent acceptance criteria (see Specification by Example by Gojko Adzic & BDD)

Vertical Slices - High Level

Stories should represent a vertical slice through the system and should be completed in one iteration -



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What about Constraints/Non-functional requirements?

- Interoperability: The system shall be written in Java and all configuration data stored in XML files
- Performance: 90% of database searches will return results to the screen in less than two seconds
- Maintainability: automated unit tests must exist for all components, and run in their entirety every 24 hours

Dealing with Constraints/Non-functional requirements

- Write a 'constraint' story drives creation of a test rather than a feature and a test
- Include the test in the regression suite
- If it relates to a specific story put into acceptance criteria of that story
- · If it relates to all stories, put it into DoD
- Consider your traditional approach but adapted for incremental development e.g.
 - Performance:
 - · Performance profiling in early sprints
 - Develop key functionality that can be performance tested early and repeat

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Writing good stories - summary

- To identify stories, start by considering the goals of each user role in using the system
- Where possible write stories that cut through all layers of the application
- Create NFR cards and post beside team board or write NFR tests to ensure they are not violated
- Write smaller stories for functionality that will soon be implemented and high level stories for functionality further out
- Keep the user interface out of the stories for as long as possible
- · Write stories in active voice
- Have the PO, rather than the developer, write most of the stories
- Keep stories short their purpose is as a reminder to hold conversations
- Use acceptance criteria/examples/scenarios to clarify stories and know when you are done

Exercise

In teams of 3-4 write user stories for a system of your choice e.g

- A new customer focused airline website
- A bug tracking package
- A packaged holiday website
- A coin flip app for a mobile phone
- Your current system/product!

Procedure:

- 1. Firstly pick your system and consider the different users (personas) and include at least 2 in your stories (5 mins)
- 2. Write stories including acceptance criteria (20 mins)
- 3. Practice taking a large story and breaking it into smaller stories (5 mins)

30 mins, 10 mins feedback discussion

Product Backlog

- A list of all potential changes to the product (as PBIs) – owned by Product Owner
 - Shared across teams if multiple teams on a product
- Product Backlog Items (PBIs)
 - THE single source of requirements usually a combination of
 - feature/story-based work ("let user search and replace")
 - task-based work ("improve exception handling")
 - NFRS ("10,000 transactions a second")
 - bugs
- · List is ordered by the Product Owner
 - Ordering considers value, cost, risk, dependencies
 - Top ordered items are well understood and agreed upon
- · Only the people who do the work get to estimate it
- · Initial backlog and ongoing backlog refinement

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Future

Tests, Value (\$, H/M/L)

Q&A





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