



BDD: USER STORIES

From human computer interaction (HCI) community
Originally written on index cards
1 to 3 sentences
Capture who, what, why
Non-technical language
Can be written by customers (users) or developers
Cards: easy to rearrange (prioritize), promote brainstorming

Feature name: [descriptive name]
As a [kind of stakeholder],
So that [I can achieve some goal],
I want to [do some task]

SMART USER STORIES

Specific, Measurable, Achievable, Relevant, and Time-boxed

Specific vs. vague features
Vague feature: User can search for a movie
Specific feature: User can search for a movie by title

Measurable
A specific and measurable feature will be testable
Are the following features testable?

SMART USER STORIES - 2

Testable = Specific + Measurable

Feature: RottenPotatoes should have a good response time

Is this testable?

How would you test it?

Feature: When adding a movie to RottenPotatoes, 99% of new movies added should be accessible to everyone within 3 seconds

Is this testable?

How would you test it?

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SMART USER STORIES - 3

Achievable

User stories should be scoped so that they are achievable in one agile iteration

If team completes less than 1 user story per iteration, user stories need to be decomposed into smaller stories

Relevant

User stories must have business value to one or more stakeholders

A feature has business relevance if you can drill down and answer at least 5 "Why" questions

SMART USER STORIES - 4 Relevance example Feature: When adding a movie, the user will be able to post a link to the their new movie review to their facebook wall. Why add the facebook feature? More people will go with friends and enjoy the movie. Why does it matter if people enjoy the movie? We will sell more tickets Why sell more tickets? Because the theater will make more money Why make more money? So the theater doesn't go out of business Why does it matter that the theater is in business? If not, I have no job If five WHY questions can't be answered, it may not be important January 23, 2017 TCSS80: Software Development and Quality Assurance [Winter 2017] Institute of Technology, University of Washington-Tacoma

SMART USER STORIES - 5 • Timeboxed: User stories have time limits, when exceeded: • Give up • Divide story into smaller user stories • Reschedule remaining functionality using a new estimate • Reduce scope: ask customer to identify highest value parts of story, than can be done quickly • Motivation • Extremely easy to underestimate length of a software project • Without careful accounting entire project could be late and fail • When exceeding a story time budget, refactoring the user story helps continually refine the project scope and maintain "tractability" ICSSIGO-Software Development and Quality Assurance [Winter 2017] Institute of Technology, University of Washington: "Excoma

PREPARING TO MEET THE CUSTOMER Agile: customer collaboration over contract negotiation Never commit to delivering features X, Y, Z, by date D Initial contact: 30 to 60 minute phone call Explain the agile process Agile works on a time and materials basis, not a fixed bid basis Agile team asks customer for high level description of the system to be built If agile team and customer are a good fit, typically a 90-minute in-person scoping meeting is scheduled Isomary 23, 2017 TCSSSIO: Softwere Development and Quality Assurance (Winer 2017) Intuiting of Technology, University of Waldington-Tacons

MEETING THE CUSTOMER - 2 Meeting attendees: Customer: product manager, lead developer, designers Developer: two engineers Artifacts: Existing designs (if any), and anything that may help clarify what system is to be built, etc. Meeting Engineers ask series of questions to identify risks, external integrations, etc. Seek to identify things leading to uncertain estimates Meeting TCSS360-Software Development and Quality Assurance [Winter 2017] Institute of Technology, University of Washington-Tacoma 13.10

| If clear definition: e.g. finished design, no external integrations | Agile team produces a tight-scoped estimate (e.g. 20-22 weeks) | If product lacks definition: e.g. lots of external integrations, uncertainty | Agile team's estimate will have a wider range (e.g. 18-26 weeks) | Agile team delivers | Findings, estimate, identification of risks to sales staff | Sales staff sends project proposal to client | Cost estimation | Follows notion of Brook's Law: diminishing returns on team size | Agile team wants to advise the client about the ideal team size to avoid diminishing returns (higher cost, less output) | January 23, 2017 | TCSS360: Software Development and Quality Assurance (pinter 2017) | Institute of Technology, University of Washington-Taconal

FOLLOW UP MEETINGS After 1st iteration, have working prototype Prior to meeting, customer must be able to play around with the app. This means: App is deployed to the public cloud App has (if appropriate) some "fake" data in it so customer can test the various behaviors If app requires a login/password to do anything, setup & give credentials to customer.













