USER STORIES

Introduction

- 1. User stories are used to capture software requirements as small pieces
- 2. They are simple for user/customer to understand and are usually specified by customer
- 3. Requirements are elicited using primary determination techniques, then presented as user stories

User story for login

- As user I want to be able to login to the system without an onlooker seeing what I type
- 2. Don't display what is type on user screen
- 3. Acceptance criteria what is typed is not visible

User stories and testing

- User stories are used to capture and communicate business rules. Objects and processes
- Ensure story has been implement according to way it was specified
- 3. Agile is story driven development, we start with the story and proceeding steps are determine by requirements of story
- 4. Testing is story driven
- 5. Planning start driving analysis, design and implementation then activities drive each other in agile development that iterative and incremental

User story for difficult to crack

- Requirement: As user I want a password that is difficult to crack but not too difficult to remember. Find data on length of password that is easy to remember - publication and psychologists
- 2. Acceptance criteria
 - 1. Password should be at least 8 characters
 - 2. Should use both lower and upper case characters
 - 3. Should not contain characters that have been used by same user in passwords in last four months
- Supporting information information from reliable sources about good passwords.
 Knowledge of how passwords are cracked

Introduction

- 1. Its have description of requirement written in customer language
- User stories are most widely used technique in agile methods for presenting requirements
- 3. User story also contain information to estimate implementation effort

User story characteristics

- 1. High level description of functionality
- 2. Written using customers language
- 3. Should be simple preferably implementing a single function
- 4. Should follow acceptance criteria
- 5. Testable it should be testable when complete
- 6. Estimable it should be possible to estimate effort and cost of user story
- 7. It should meet users need
- 8. Usually written by stakeholder

User story characteristics ... independent

- 8. Should be independent of other stories as much as possible to allow for implementation in any order.
- The larger the system the more difficult for stories and requirements to be independent.
- Agile method select story when complete will lead to a user increment that user can use.

Elements of a User story ...

- 9. Use simplest tool usually written on small cards to ensure it's the increment is small
- 10.It enable conversation about what system will do as its a secondary requirement determination technique
- 11.It confirmed by customer as characteristic of system as is
- 12.It should include the priority and estimate

User story characteristics ... independent

In case of developing a word processor the editor should be developed before speller. The user wont be able to use speller before member has typed something

USER STORY TEMPLATE

As a [<u>USER role</u>] I want to [<u>verb centric</u> <u>behaviour</u>] so that I can [<u>USER valued</u> added]

Template used to write high level story in one sentence

Student book search User story

1. As library member I want to search for material in library and university using keyword and it should provide me all related materials

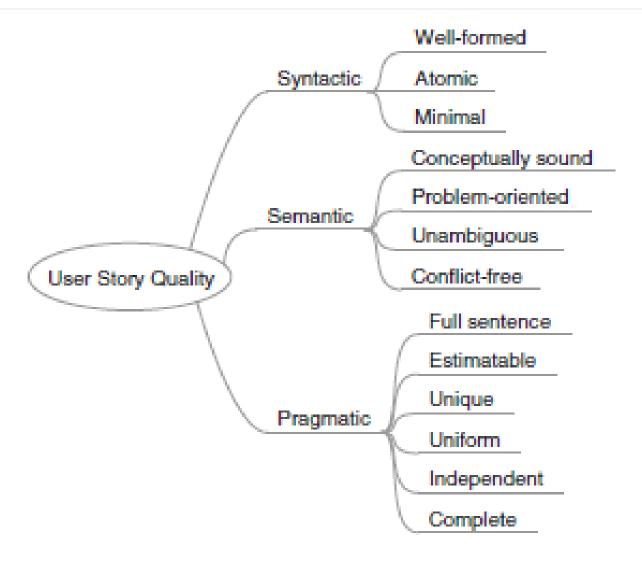
- 2. Priority 9
- 3. Story points 5

Detailing Student Book search User story

- 1. Student must be active member of library
- 2. A student should have paid whole library fee amount or partially payment with authorization
- 3. It must be on a session when library is open. Not on public holidays
- 4. Search should return physical and digital books, journal papers, their location and status

Problems with user stories

- 1. To much details
- 2. Not focusing on customer
- 3. Lack of conversation
- 4. Lack of acceptance criteria



Quality User Story framework that defines 13 criteria for user story quality: overview