CSCI 4050/6050 Software Engineering

Requirements Elicitation and Specification

User Stories

1

Announcements:

- 1. The quiz will be online with the lockdown browser and monitor.
- 2. Deliverable 1 is on eLC. Due on June 24@ midnight

Often used in Agile processes, e.g., Scrum

- A short, simple description of a feature told from the perspective of the person who desires the new capability, usually a user or customer of the system.
- Focuses on what the user wants to have, not what the user wants the system to do.
- Often recorded on a flash card or a post-it note.

User Stories: Story Board



User stories on post-it notes

From: thoughtworks.com

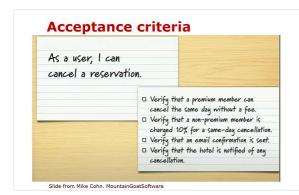


Figure from: wikipedia.org

Three C's of user stories:

- Card: The main intention is to describe the user story in short form to allow common understanding of the user need among all stakeholders.
- Conversation: User stories shift the focus from writing about features to *discussing* them. In fact, these discussions are more important than whatever text is written.
- Confirmation: Acceptance tests confirm that the story was delivered correctly.





Acceptance criteria

 Acceptance Criteria is the detail required to know when a ticket meets its definition of done. These are not solution specific, but they can detail requirements that need to be hit.



Acceptance criteria do not have to follow a specific "format".
 However, their intent should be clearly defined.



Attaching Acceptance Criteria to the User Story (1)

As a customer, I want to withdraw cash from an ATM So that I don't have to wait in line at the bank.

Acceptance Criterion 1:

Given that the account is creditworthy

And the card is valid

And the dispenser contains cash,

When the customer requests the cash

Then ensure the account is debited

And ensure cash is dispensed

And ensure the card is returned

Acceptance Criterion 2:

Given that the account is overdrawn And the card is valid,

When the customer requests the cash

Then ensure the rejection message is displayed

And ensure cash is not dispensed.

Attaching Acceptance Criteria to the User Story (2)

As a user I want to sign in from a login page so that users can be authenticated.

Acceptance Criteria:

Success

- I can enter my email address and password and submit it for authentication.
- "Remember me" checked store cookie for automatic login next time
- "Remember me" not checked require login next time

Failure

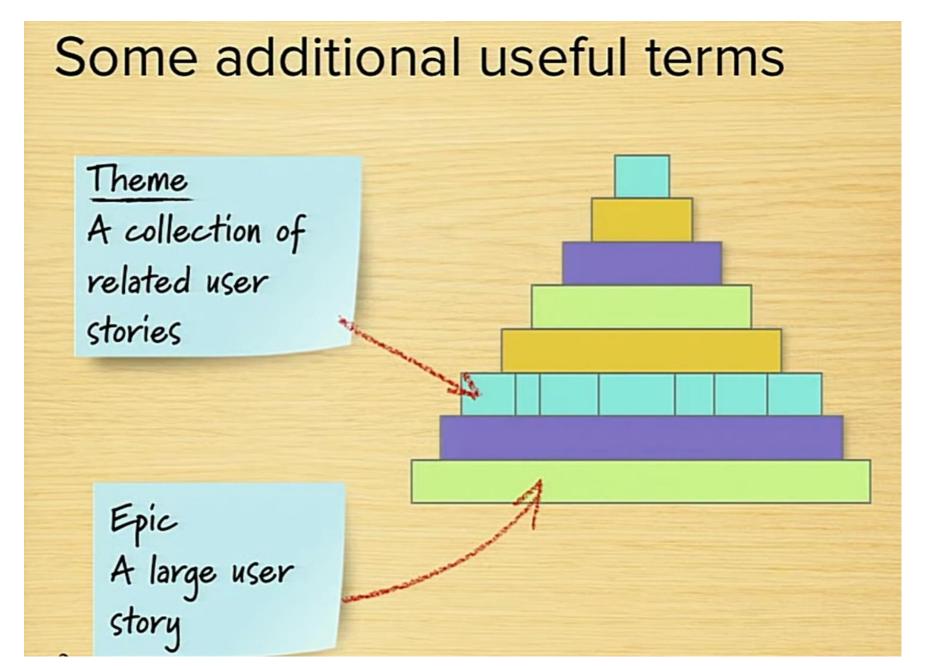
- Illegal email format
- Unknown email/password
- System down for maintenance

Attaching Acceptance Criteria to the User Story (3)

As a conference attendee, I want to be able to register online, so I can register quickly and cut down on paperwork.

Acceptance Criteria:

- A user cannot submit a form without completing all the mandatory fields.
- Information from the form is stored in the registrations database.
- Protection against robots is working (captcha).
- Payment can be made via credit card.
- An acknowledgment email is sent to the user after submitting the form.





Theme Manage Promotions

US 21 Manage promotions

As an administrator, I want to be able to manage promotions so that promo info are always correct and up to date.

Acceptance Criteria

Admins can add, edit, send, and delete promotions.

Cannot delete a promotion after being sent to the users.

Theme Manage Promotions

Theme 1: Manage promotions

US 21: Add new promotion

As an administrator, I want to be able to add a new promotion so that

Acceptance Criteria

Admin will be provided with a form to enter promo code, expiration date of the promotion, and promo percentage. All fields are mandatory.

Theme Manage Promotions

Theme: Manage promotions

US 22 update an existing promotion As an administrator, I want to be able to update a promotion so that promo info are always correct and up to date.

Acceptance Criteria

- 1. Admin will be provided with a form to enter promo code, expiration date of the promotion, and promo percentage. All fields are mandatory.
- 2. Admins cannot modify a promotion after the promotion has been sent to customers.

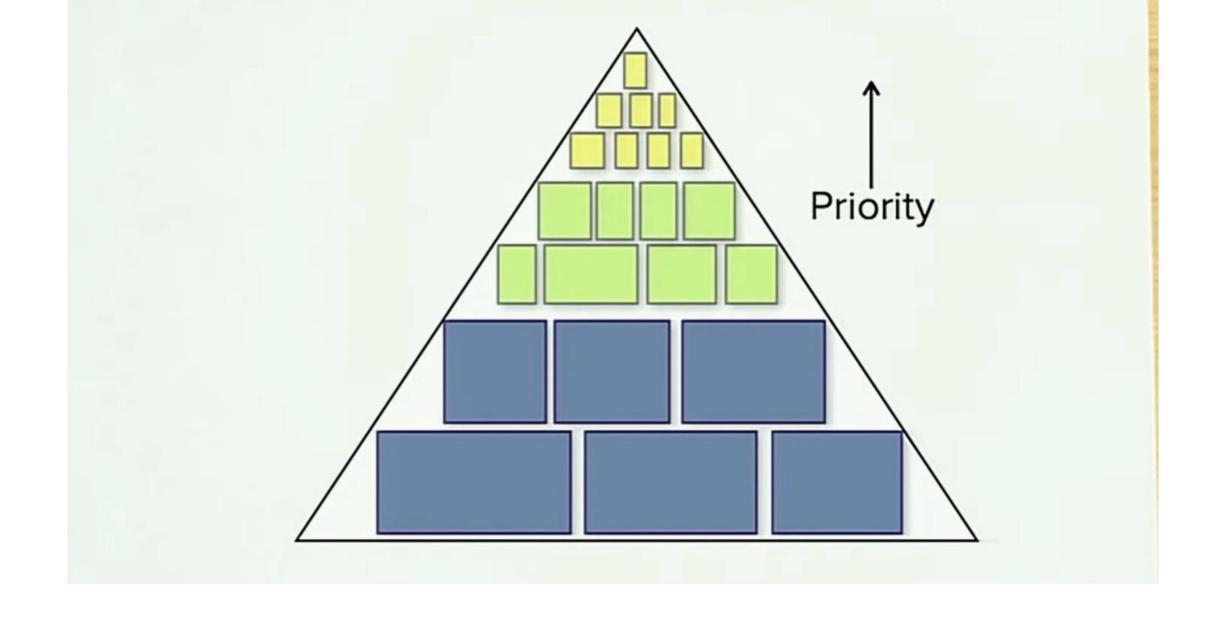
Theme **Manage promotions**

US 21: Edit Promotion

As an administrator I want to be able to edit a promotion to correct any information

Acceptance Criteria

Administrators should not be able to edit a promotion that has been already sent to the users.



- Some user stories can be large in scope and complex. These are called epics.
- Typically, an epic cannot be completed in a single sprint.
- Epics are split into smaller, regular user stories, after a conversation.
- Often, several related user stories are grouped together to form a theme, but a distinction epic vs. theme is sometimes unclear.

Epic example:

As a hotel operator, I want to set the optimal rate for rooms in my hotel.

- a. As a hotel operator, I want to set the optimal rate for rooms based on prior year pricing.
- b. As a hotel operator, I want to set the optimal rate for rooms based on what hotels comparable to mine are charging.
- c. As a hotel operator, I want to set the optimal rate for rooms based on current projected occupancy.

As a user I want to sign in to the site from a login page so that users can be authenticated.

As an epic, it can lead to additional user stories:

As a new user, I want to register by creating a username and password so that the system can remember my personal information.

As a registered user, I can log in with my username and password so I can trust the system.

As a registered user, I can change my password so that I can keep it secure or make it easier to remember.

As a registered user, I want the system to warn me if my password is easy to guess so that my account is harder to break into.

As a forgetful user, I want to be able to reset my password.

As a registered user, I am notified if there have been three consecutive failed attempts to access my account, so that I am aware if someone is trying to access my account.

Activity: Writing user Stories.

We will solve activity 3 on the assignments page