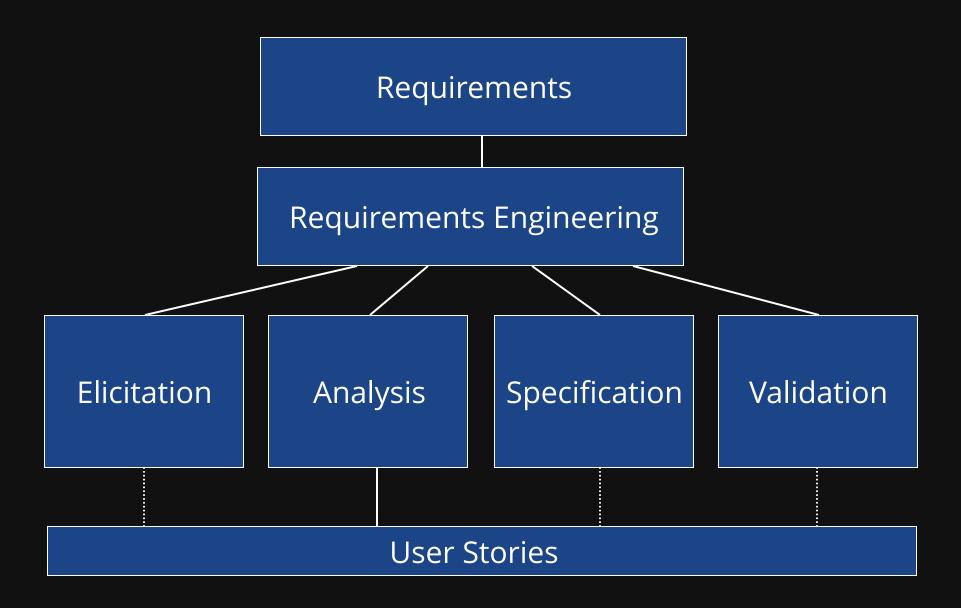
COMP1531

7.1 - SDLC - User Stories & UAT

SDLC



Requirements



User Stories - Overview

User Stories are a method of requirements engineering used to inform the development process and what features to build with the user at the centre.

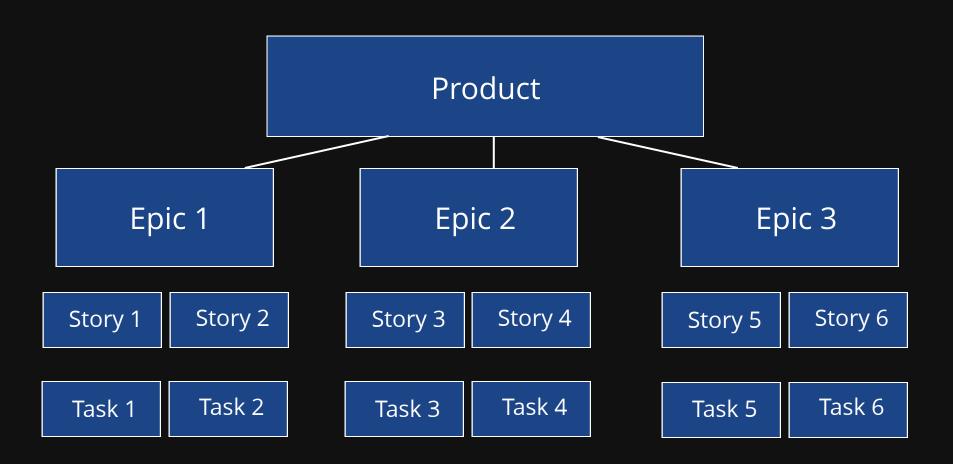
User Stories - Structure

When a customer tells you what they want, try and express it in the form As a < type of user >, I want < some goal > so that < some reason >

E.G. They say:

- E.G. They say:
 - A student can purchase monthly parking passes online
- But your story becomes:
 - As a student, I want to purchase a parking pass so that I can drive to school

User Stories - Structure



User Stories - Nature

User stories:

- Are written in non-technical language
- Are user-goal focused, not product-feature focused
 - User stories inform feature decisions

Why do we care?

- The keep customers at the centre
- Keep it problem focused, not solution focused

User Stories - Activity

Building a to-do list

User Stories - More

Read more about user stories here:

https://www.atlassian.com/agile/projectmanagement/user-stories How do we know we've met the user story requirement?

INVEST

- I = Independent: user story could be developed independently and delivered separately
- N = Negotiable: avoid too much detail.
- V = Valuable: must hold some value to the client
- E = Estimable: we'll get to this in a later lecture
- S = Small: user story should be small
- T = Testable

User Acceptance Criteria

- Break down a user story into criteria that must be met for the user, or customer, to accept
- Written in natural language
- Can be refined before implementation

Example

As a user, I want to use a search field to type a city, name, or street, so that I can find matching hotel options.

- The search field is placed on the top bar
- Search starts once the user clicks "Search"
- The field contains a placeholder with a grey-colored text: "Where are you going?"
- The placeholder disappears once the user starts typing
- Search is performed if a user types in a city, hotel name, street, or all combined
- The user can't type more than 200 symbols

Best practices

- Acceptance criteria should not be too broad
- ... but nor should they be too narrow
- Minimise technical detail
 - They can be more technical than the story itself, but client still needs to understand them
- While they can be updated during development, they should first be written before it starts

From Criteria to Testing

- Acceptance Tests are tests that are performed to ensure acceptance criteria have been met
- Not all acceptance criteria can easily be mapped to automated acceptance tests
- Acceptance tests are *black-box* tests

Example 2:

As a user, I can log in through a social media account.

- Can log in through Facebook
- Can log in through LinkedIn
- Can log in through Twitter

Scenario Oriented AC

- The Acceptance criteria from before are often referred to a rulebased AC
- Sometimes it is preferable to have AC that describe a scenario
- This can be done in the Given/When/Then format:
 - *Given* some precondition
 - When I do some action
 - Then I expect some result

Example 3:

As a user, I want to be able to recover the password to my account, so that I will be able to access my account in case I forgot the password.

Scenario: Forgot password

Given: The user has navigated to the login page

When: The user selected forgot password option

And: Entered a valid email to receive a link for password recovery

Then: The system sent the link to the entered email

Given: The user received the link via the email

When: The user navigated through the link received in the email

Then: The system enables the user to set a new password

Which one to use?

- Rule-based acceptance criteria are simpler and generally work for all sorts of stories
- Scenario-based AC work for stories that imply specific user actions, but don't work for higher-level system properties (e.g. design)
- Scenario-based AC are more likely to be implementable as tests

Further reading

- https://www.mountaingoatsoftware.com/blog/the-two-ways-to-adddetail-to-user-stories
- https://www.altexsoft.com/blog/business/acceptance-criteria-purposes-formats-and-best-practices/
- https://dzone.com/articles/acceptance-criteria-in-software-explanationexampl