



https://alistaircockburn.com/Articles /Unifying-user-stories-use-cases-story-maps-talk

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What's the problem?

User stories, use cases & story maps compete for attention of the same people at the same time



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What's the fix?

Learn to use them as partially compatible tools in a larger toolbox.

Take advantage of each of them.

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First: What are they?

User story: A tag for what a user considers a

"sign of progress" on system development

Use case: An enumeration of all the ways for

a user to achieve a goal (or fail)

Story map: A 2D card layout showing processes L-to-R

and priorities vertically down



What is a user story?

[Kent Beck]

- 1) A short phrase or sentence that captures what a user wants. Anything they can notice (including speed) counts.
- 2) Not intended as a complete spec, lives in a conversation between a user and a developer. They discuss, the developer programs, shows to the user, revises, shows, until it's good.
- 3) * Should fit into one iteration or sprint.
- 4) Intended for high-collaboration environments.

Pay for goods using stored credit card

As a client, I want to pay for the goods in my basket using a stored credit card, so that I don't have to enter all the card details again.

Collect 9-digit zip code (not 4)

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What is an epic?

[Mike Cohn]

- 1) A user story, except it won't fit into an iteration or sprint.
 - * Calling something an 'epic' implies you will need to break it down for development.

Book all hotels, cars and flights for a vacation.

Construct and send marketing campaign for new client.



What is a use case?

[Ivar Jacobson]

- 1) A special writing format to describe all the interactions needed for a user to achieve a goal.
- 2) Written with full sentences, failure conditions, how those failures are patched up (or not), and what happens at the end.
- 3) A full spec of the <u>behavior</u> of the system with respect to that user goal, it references back-end and external systems.
- 4) Does <u>not</u> detail the data, UI, performance, security needs.
 - * Typically needs to be broken into slices for development, that is: an <u>epic</u>.

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(Sample use case)

<u>Place an order</u> (Sea-level goal for Clerk)

Main scenario:

- 1. Clerk identifies customer, item and quantity.
- 2. System accepts and queues the order.

Extensions:

1a. Low credit & Customer is 'Preferred':

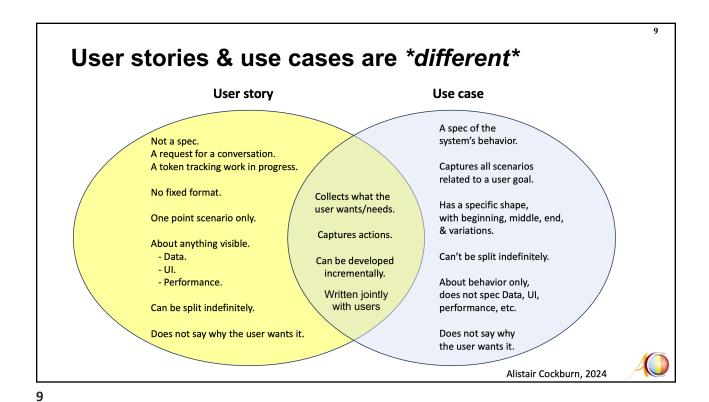
System gives them credit anyway.

1b. Low credit & not 'Preferred' customer:

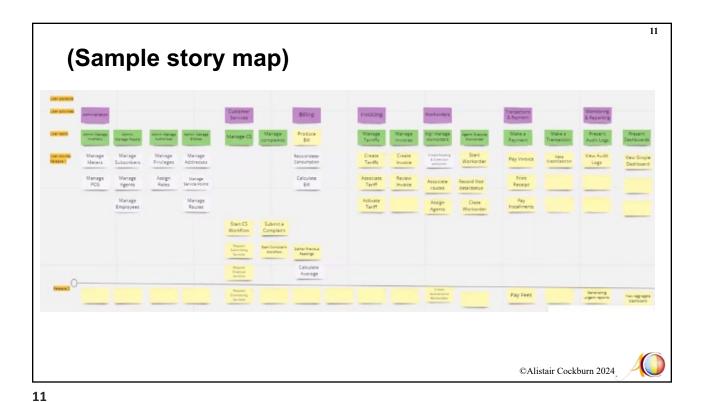
Clerk accepts only prepayment.

2a. Low on stock: Customer accepts rain-check: Clerk reduces order to available stock level.





What is a story map? [Jeff Patton] 1) A 2-dimensional grid of user stories and epics. 2) Each type of user gets their own column. The top rows show user tasks to complete a business process; Each column has all user stories needed to deliver the epics. 3) Intended for high-collaboration environments. Store Clerk Store Manager roles Handle Capture Run daily Reorder backbone inventory sale rollup stock ==> ==process==> Credit Scan item Manual rollup (etc.) on shelf card sale request user priority stories Manually Cash + credit **Automatic** rollup enter item card sale





Reminder: What are they?

User story: A tag for what a user considers

a "sign of progress" on system development

Use case: An enumeration of all the ways for

a user to achieve a goal (with failures)

Story map: A 2D card layout showing processes L-to-R

and priorities vertically down

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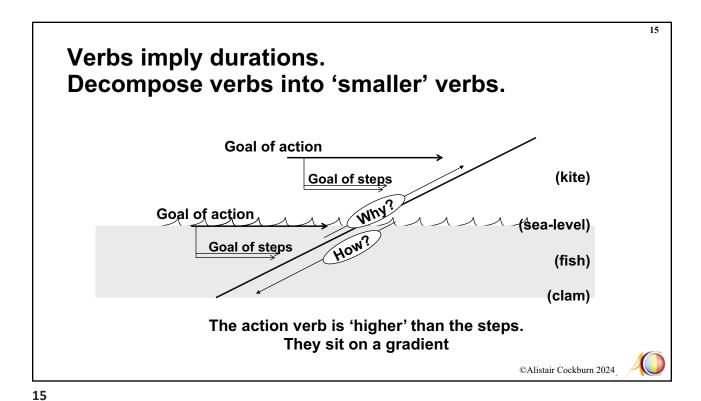


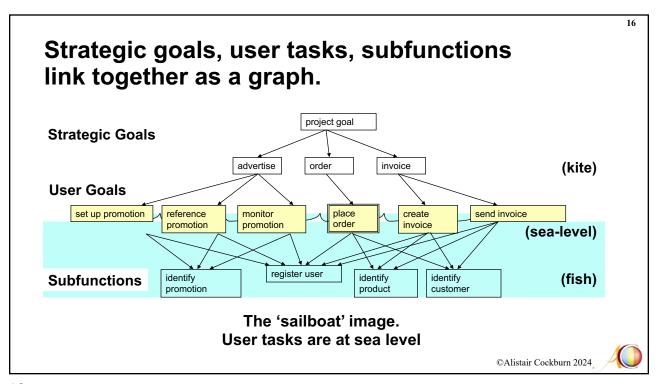
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8 concepts needed to do well with any of them:

- 1. Verbs imply durations.
- 2. Decompose verbs into 'smaller' (shorter duration) verbs.
- 3. Manage precision.
- 4. Decompose everything, not just the verbs.
- 5. Write jointly, business & dev.
- 6. Write from the user's perspective.
- 7. Write just the needs, not the encyclopedia.
- 8. Sacrifice perfection for readability.







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Decompose verbs:

For use cases:

Don't decompose below fish level.

Keep the use case shape (main + extensions)

For user stories:

Decompose down to clam level as needed.

Can decompose almost indefinitely.

Decompose use cases into user stories:

- 1. Choose the thinnest full transaction as slice 1.
- 2. Choose any action/extension that fits an iteration.
- 3. Subset any action/extension until it's small enough.

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UC 7: "Register for Courses"

[Patterns for Effective Use Cases, Adolph-Bramble]

System: Course Enrollment System Goal level: User (sea) –level goal

[1] 1. Student requests to construct a schedule.

—("base function")

[1] 2. The system prepares a blank schedule form.

("added function")

- [2] 3. The system gets available courses from the Course Catalog System.
- [3] 4. Student selects up to 4 primary and 2 alternate course offerings.
- [4,5] 5. For each course, the system verifies that the Student has the necessary prerequisites, adds the Student to the course, marking Student as "enrolled" for that course in the schedule.
- [1] 6. The Student indicates the schedule is complete, the system saves it.

Extensions

- [6] 1a. Student already has a schedule: System brings up the current version of the Student's schedule for editing instead of creating a new one.
- [7] 1b. Current semester is closed and next semester is not yet open: System lets Student look at existing schedules, but not create new ones.
- [8] 3a. Course Catalog System does not respond: The system notifies the Student and the use case ends.
- [5] 5a. Course full or Student has not fulfilled all prerequisites: System disables selection of that course and notifies the Student.



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Decompose use cases also by action variations:									
ADD OR EDIT MUFFINS! 1. I, probably Alistair, go to the site 2. I create a new muffin	e, identify myself and get permission to	add n	nuff	ĩns.	(3) review and	edit online:			
3. I review and edit it online before "publishing" it.				(Work Token)	f	g	date		
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 I mark the categories to which it belongs. 			Á	save it	0	0	11/6/07		
6. I have the server publish it.									
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prove I'm a human (captcha)									
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Decompose data, UI, performance, security: (not in the use cases)

Personal information:

Name:

First name, Middle initial, Last name

Address:

Street, City, Zip code, State

Phone number:

Home, Business, Cell

Payment details:

Credit card:

Name, Number, Expiration



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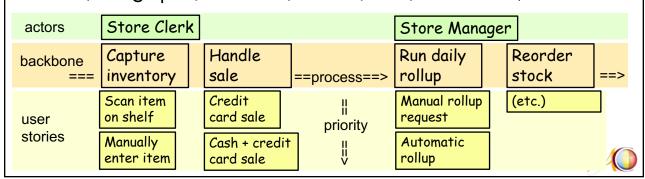
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A story map is a mix of use case & user stories

Each type of user gets their own column (the actors).

The top rows show the overall process (use case main success scenario).

Each column has all user stories needed to deliver the epics (slicing epics, use cases, failures, data, user stories)



Reprise: What are they good for?

User story: A tag. Useful for tracking where the request

is during development up to delivery.

Use case: Tells a story easily read across the org.

A context around specific requests.

A structure for discovering oddball cases.

Story map: A conversation-holder showing both

large-scale context & fine-grained stories.

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