

From Conversation to Code

Collaborative Requirements Gathering That Writes Your Automated Tests



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Architect and
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- + From sunny southwest Utah (moved there after DrupalCamp FL presentation in 2020)
- + I love
 - + Helping good people do good work
 - + Thinking through Drupal integrations with other technologies
 - + Digging into processes that help teams build the right thing
 - + Turning messy code into self documenting code
 - + Trail Running

**Enough about me.
Tell me about you.**

Requirements Gap

- + Long requirements documents
- + Developers guessing what stakeholders want
- + "That's not what I meant" after launch
- + Tests that don't match actual requirements

Requirements Alignment

- + Be written in plain language everyone understands
- + Come from a collaborative conversation
- + Become your automated tests
- + Ensure you build what was actually requested

Example Mapping



What is Example Mapping?

A collaborative workshop that creates a shared understanding for a feature by

- + Exploring **user stories** through concrete **examples**
- + Surfacing hidden **rules** and **assumptions**
- + Identifying **questions** and unknowns

Who should participate?



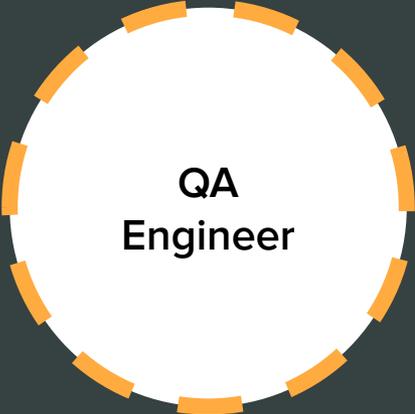
Product
Owner /
Stakeholder

*Someone who
knows the
business*



Developer

*Someone who
will build it*



QA
Engineer

*Someone who will
test it*

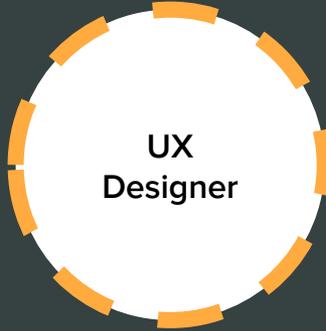
Better Yet...



*Someone who
knows the
business*



*Someone who
will build it*

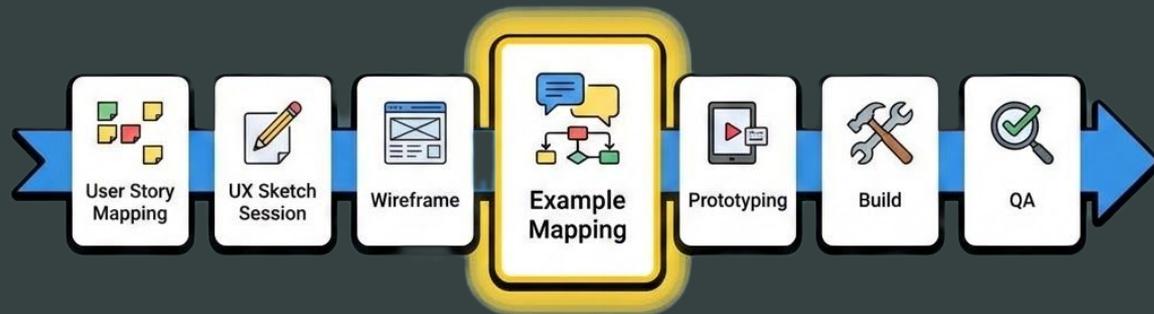


*Someone who will
be a champion for
the user and the
design system*



Special Context Holders

When to do it?



Sketch Session → Example Mapping = Powerful Combination

- + Visual reference to point at during discussion
- + Helps identify edge cases in the UI
- + Can iterate on sketches as you discover new rules
- + Everyone sees the same thing

Let's see it in action!

Use the miro template!

<https://miro.com/miroverse/conversation-to-code-example-mapping/>

What is Example Mapping?

Behavior Driven Development (BDD) is a collaborative exercise designed to clarify and confirm acceptance criteria across the team.

The goal is to create a shared understanding of the cope and acceptance criteria of a user story.

Steps to Example Mapping Exercise

Step 1: Write the story on a yellow card and place it on top.

Step 2: The team brainstorms the "rules" of the new capability, derived from the requirements: what the feature should do. Each Rule (acceptance criteria) is written on a blue card and placed on a row beneath the yellow story card. Consider sorting these with priority decreasing as the row moves right.

Step 3: Examples that illustrate these rules are written on green card(s) and placed under the relevant rule. These examples should use real data to prove the affirmative or negative state of a rule.

Step 4: Throughout this process, particularly during the brainstorming parts, anyone can ask a question using a red sticky.

Insights

- A table covered in red (questions) cards tells us we still have a lot to learn about this story.
- A table with many colored (green cards) might be more complete.
- Are there multiple rules at all that need to be stated as part?

Story
As a _____
I want/need _____
So that _____

Rules
priority decreases →
Check-able Statement

Examples
Use real data to validate or invalidate the rule above

Insert a visual of the user story here

Learn more about [example mapping](#).

What is Behavior Driven Development (BDD)

- + **Collaboration**

teams define expected behaviors together through Example Mapping

- + **Specification**

behaviors are written as plain-language scenarios that stakeholders can read and validate

- + **Development**

automated tests built from those scenarios guide implementation and verify the software behaves as specified

Let's see a scenario from our Example Map

AI Prompt for feature file generation from screenshot:

“Here is a screenshot of an example mapping session for an ADRC contact directory feature. Each blue card is a rule and each green card is a concrete example.

Write Gherkin scenarios for a Behat BDD test suite where each rule becomes a tagged scenario group and each green example becomes a specific scenario with Given/When/Then steps. Use real data from the examples where provided.”

```
1 Feature: ADRC Contact Directory List Ordering and Navigation
2 As a person who needs ADRC assistance in Wisconsin
3 I want to browse ADRC contact info by each county easily
4 So that I know available options for getting help
5
6 Background:
7   Given I am on the ADRC contact directory page
8
9 @alphabetical-order
10 Scenario: Contacts appear in alphabetical order by county
11   When I view the contact listing for letter "A"
12   Then I should see "Adams County" before "Ashland County"
13
14 @multi-county-adrc
15 Scenario: ADRC serving multiple counties appears under each county
16   Given "ADRC of Adams, Green Lake, and Waushara" serves multiple counties
17   When I view the contact listing for letter "A"
18   Then I should see "ADRC of Adams, Green Lake, and Waushara" under "Adams County"
19   When I view the contact listing for letter "G"
20   Then I should see "ADRC of Adams, Green Lake, and Waushara" under "Green Lake"
21   When I view the contact listing for letter "W"
22   Then I should see "ADRC of Adams, Green Lake, and Waushara" under "Waushara"
23
24 @local-adrc-display
25 Scenario: Local ADRC displays under its county even when appearing in multiple
26   When I view the contact listing for letter "G"
27   Then I should see "ADRC of Southwest Wisconsin" in both "Grant" and "Green" county results
28
29 @default-view
30 Scenario: Default view starts with letter A
31   When I navigate to the ADRC contact directory
32   Then the listing should display contacts starting with letter "A"
33   And the "A" letter filter should be in an active state
34
35 @letter-navigation-availability
36 Scenario: Only letters with ADRCs are selectable
37   When I view the letter navigation
38   Then letter "Z" should be unclickable
39   Because there are no counties starting with "Z"
40
41 @letter-navigation-availability
42 Scenario: Letters with at least one ADRC are clickable
43   When I view the letter navigation
44   Then letter "A" should be clickable
45   Because there are counties starting with "A"
46
47 @letter-filter
48 Scenario: Clicking a letter filters the list
49   When I click on letter "A"
50   Then the list should refresh
51   And I should only see ADRCs for counties starting with "A"
52   And I should see "Adams" county in the results
53   And I should see "Ashland" county in the results
54   And I should not see "Brown" county in the results
```

Questions?