



The Power of Example Mapping!

Kiruthika Ganesan



Sneak Peek

WHY?

what ?

HOW?

Tips

Over 15 years in Software Industry



About Me

Kiruthika = KIKA



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Why are Examples powerful?

Is there a need?





Acceptance Criteria are the output of team engagement and not the other way around

Communication &
Collaboration

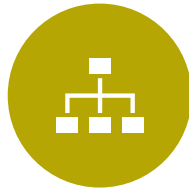


Acceptance Criteria

What is Example Mapping?



CLARITY AROUND
THE STORY
REQUIREMENTS



STRUCTURE TO
YOUR
REFINEMENTS



PROMOTE
COMMUNICATION
& COLLABORATION



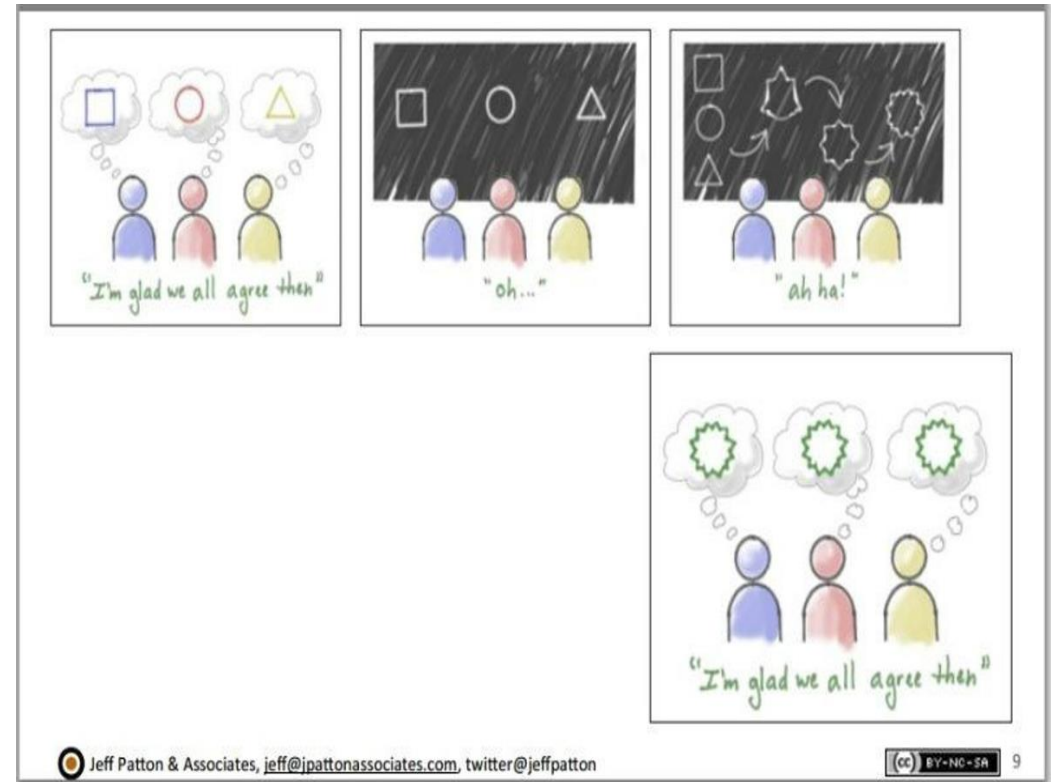
SHARED
UNDERSTANDING



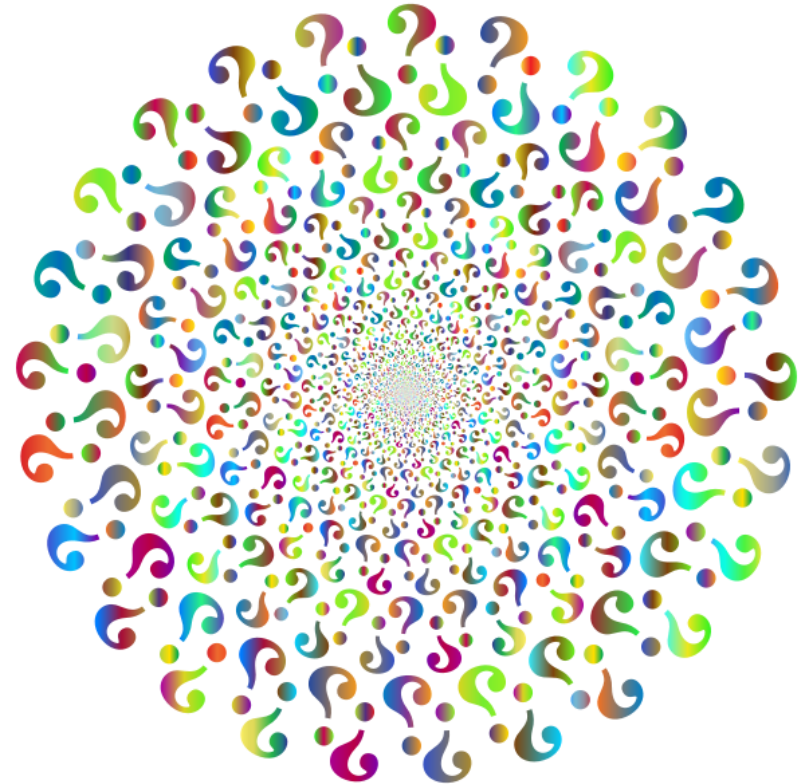
IDENTIFY
UNKNOWN AND
RISKS EARLY ON

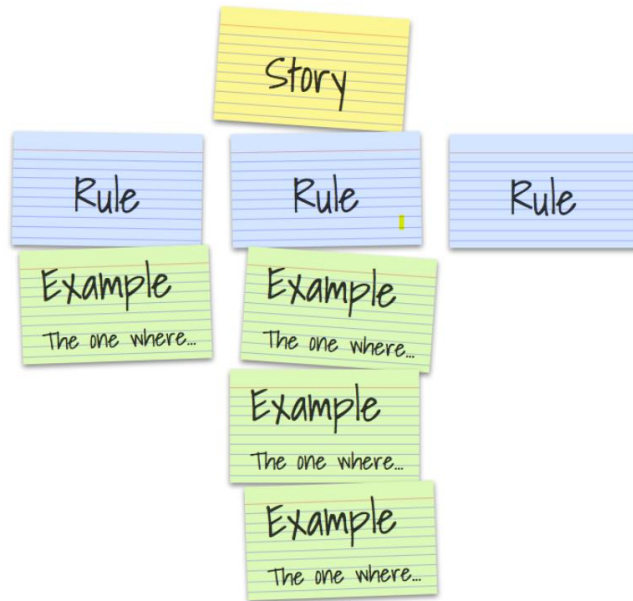


HELP ADOPT BDD



How to do Example Mapping?

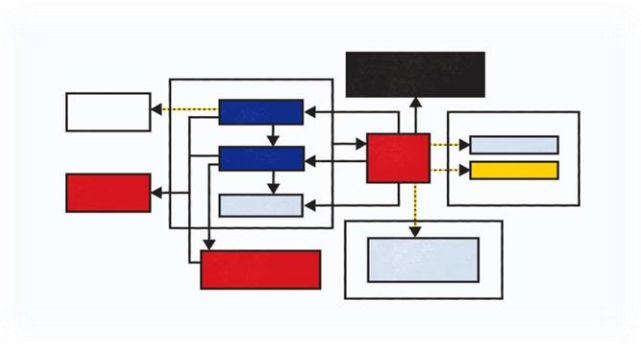




Ingredients

- + Bring various stakeholders in (minimum PO, Dev, Tester)
- + Set time (max 30 minutes)
- + Whiteboard with 4 coloured cards, pens/markers
- + Miro board, Mind maps, Google spreadsheets
- + Examples → Rules → Story

User Stories & Non-user Stories Examples

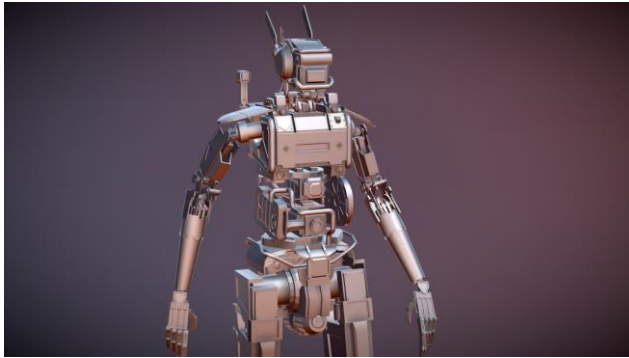




Story of a smart PBJ sandwich 😊



Third party



Software Ninja



Interested Party





Example Mapping Session- Part 1



PO

Story

As a user of the robot,
I need to instruct the robot
to make the perfect PBJ
sandwich every time

Rules/Acceptance
Criteria

PBJ Sandwich
should be
made with 2
slices of bread

One slice of
bread can
have either PB
or Jelly on one
side of it

Sandwich
should be made
by placing the
PB and Jelly side
onto each other

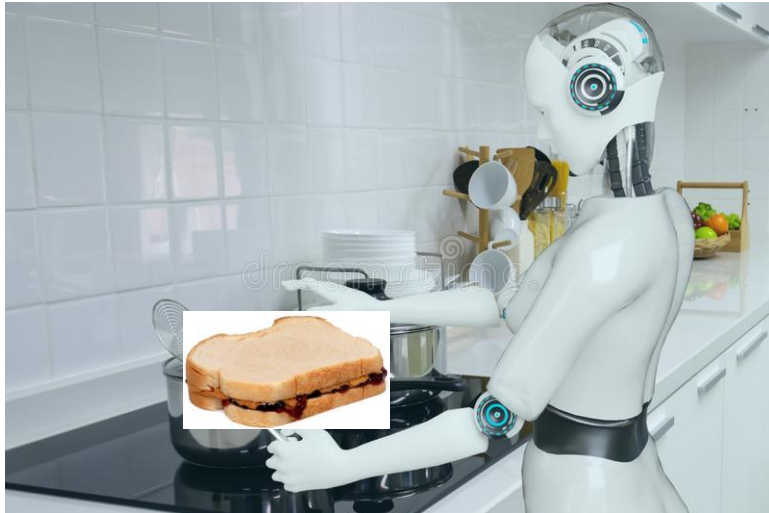


Example Mapping Session- Part 2



Team

Rules/AC	Examples/AT	Context	Action	Outcome
	Make a PBJ with 2 slices of brown bread	Relevant software and ingredients are ready and make sandwich button is pressed.	Robot picks up 2 slices of brown bread, spreads PB on one slice and Jelly on another	The sandwich is ready when the 2 slices of bread are pressed together PB & J side
Sandwich should be made with 2 slices of bread	Make a PBJ with 2 slices of toasted bread			
	Make a PBJ with 2 slices of bread without crusts			
	Make a PBJ with 4 slices of bread			



Robot making a PBJ sandwich 😊



Bread MS



Get robot to pick 2 slices of bread from bread tray

PB MS



Get robot to spread PB on a slice of bread

Jelly MS



Get robot to spread Jelly on a slice of bread

Sandwich MS



Get robot to do the sandwich assembly



**PO/
Tech
Lead**

Example Mapping Session- Part 1

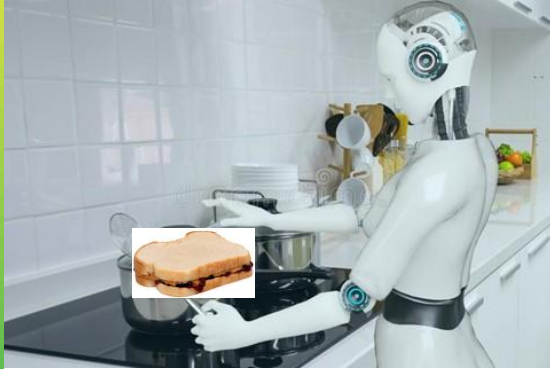
As a bread microservice,
I should be able to instruct
the robot via the APIs to pick
up bread from the bread tray

Rules/Acceptance
Criteria

Recognise
whether the
bread tray is
loaded

Pick up only
2 slices of
bread every
time

Stop the
process if only
1 bread is left
in the tray



Team

Example Mapping Session- Part 2



In the end



- Instant feedback on the current understanding of the story
 - More red - lots to learn
 - More blue - story is huge
 - More green - complex rule
- Product- runs the session- brings the story and rules
- Team asks questions and adds examples
- Questions become action items with owners
- Final step is Gherkin specification, feedback and estimation

Acceptance criteria/Business Rule for user stories which focus on the customer journeys

- + Given that the relevant software is installed
- + And the ingredients are made available
- + When the user presses the make-sandwich button
- + Then the robot gets the sandwich ready with 2 slices of bread
- + And spreads PB on one slice and Jelly on another
- + And presses the 2 slices of bread together PB and Jelly side

Corresponding Example/Acceptance Test

- + Given that the relevant software is installed
- + And the ingredients are made available
- + When the user presses the make-sandwich button
- + Then the robot gets the sandwich ready with <number> slices of <type of bread>
- + And spreads PB on one slice and Jelly on another
- + And presses the 2 slices of bread together PB and Jelly side

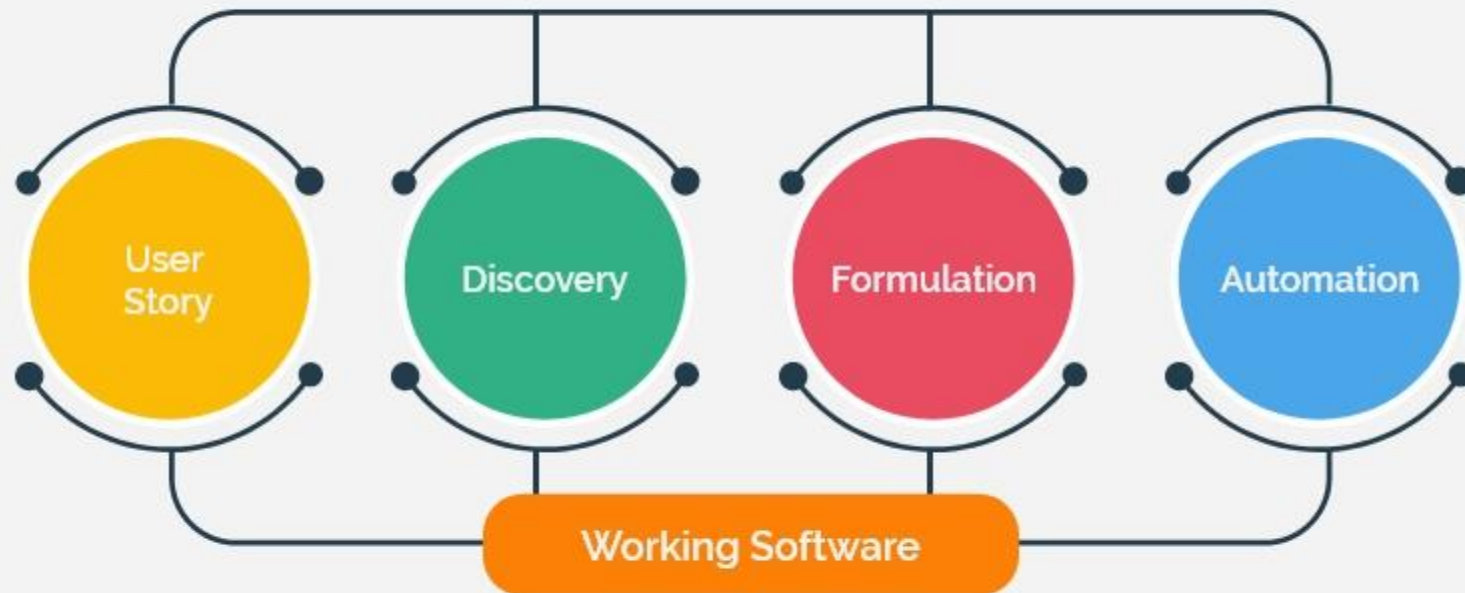
Acceptance criteria/Business Rule for non-user stories which enable the customer journeys

- + Given that the find-the-bread-tray-weight API request is made
- + And the correct authorisation token is provided
- + When the API response is validated to find the weight parameter value
- + Then the value should be more than 2kg
- + And the response code is 200

Corresponding Example/Acceptance Test

- + Given that the find-the-bread-tray-weight API request is made
- + And the correct authorisation token is provided
- + When the API response is validated to find the weight parameter value
- + Then the value should be <boundary value> 2kg
- + And the response code is 200

Example Mapping in a nutshell



Further References

- + [Matt Wynne developed Example Mapping](#)
- + [John Ferguson Smart](#)
<https://johnfergusonsmart.com/>
- + <https://cucumber.io/docs/gherkin/reference/>

Keywords

Each line that isn't a blank line has to start with a Gherkin *keyword*, followed by any text you like. The only exceptions are the free-form descriptions placed underneath `Example / Scenario`, `Background`, `Scenario Outline` and `Rule` lines.

The primary keywords are:

- `Feature`
- `Rule` (as of Gherkin 6)
- `Example` (or `Scenario`)
- `Given`, `When`, `Then`, `And`, `But` for steps (or `*`)
- `Background`
- `Scenario Outline` (or `Scenario Template`)
- `Examples` (or `Scenarios`)

Benefits



EMPATHY



EARLY
FEEDBACK



MINIMAL SCOPE
CREEP



REDUCED
CYCLE TIMES



PREDICTABILITY
INCREASES



QUALITY
INCREASES



SIMPLER TEST
MAINTENANCE

Tips for teams



HEADS UP
BEFORE THE
MEETING



CHOOSE RIGHT
STORIES



IN PERSON
SESSIONS



TEAM SIZE



30 MINS EVERY
DAY



WRITE FIRST THEN
DISCUSS

Tips for company



MATURITY OF SOFTWARE
DEVELOPMENT
PRACTICES



BUY IN FROM SENIOR
MANAGEMENT AND
TEAM



BACKLOG AND VISIBILITY

Recap



Examples are Powerful



Discovery, Formulation & Automation



Agile/Waterfall & User/Non-user story

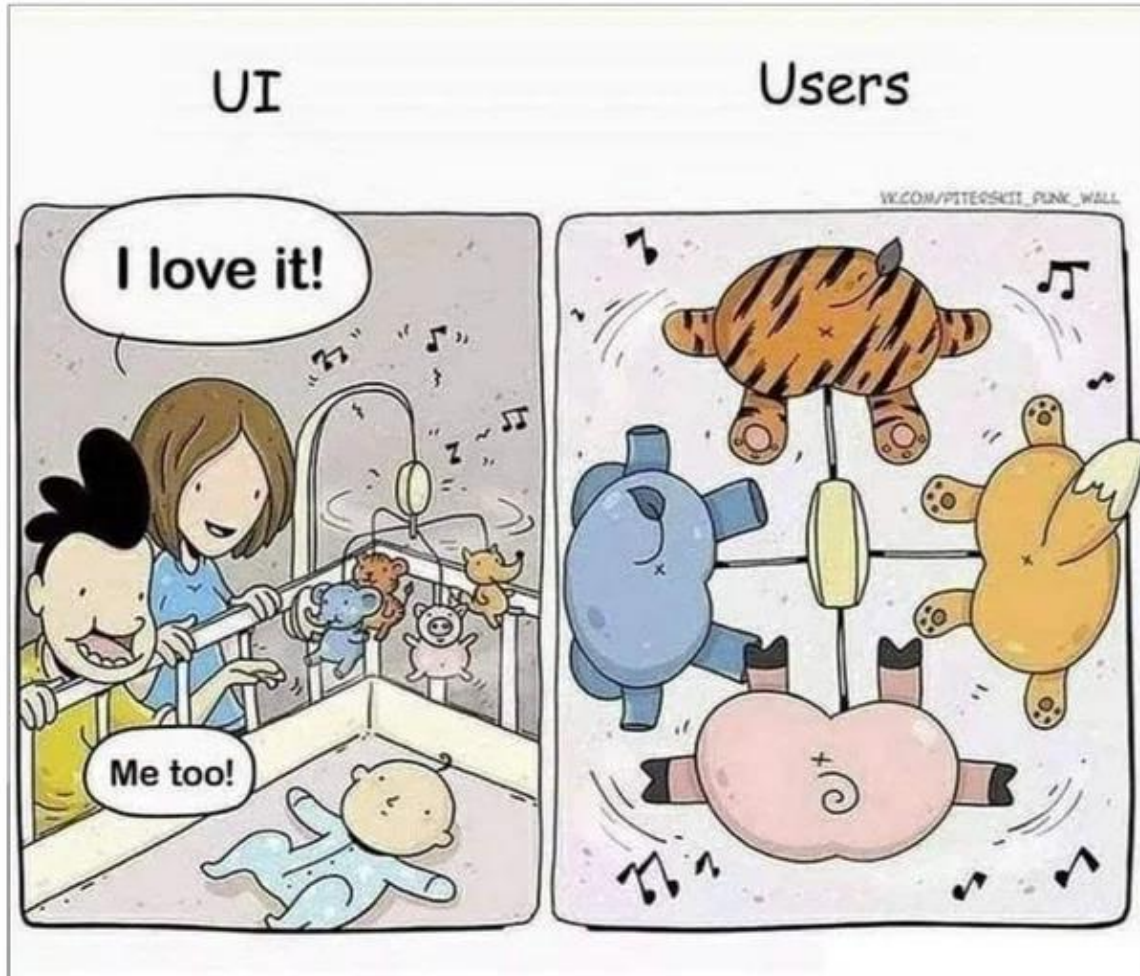


Challenges & Limitations



Concrete Benefits

Let's change this!





Thank You! 😊