

# TEMPLATE FOR RETROSPECTIVE (Team ##)

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The retrospective should include *at least* the following sections:

- [process measures](#)
- [quality measures](#)
- [general assessment](#)

## PROCESS MEASURES

### Macro statistics

- Number of stories committed vs. done
- Total points committed vs. done
- Nr of hours planned vs. spent (as a team)

**Remember** a story is done ONLY if it fits the Definition of Done:

- Unit Tests passing
- Code review completed
- Code present on VCS
- End-to-End tests performed

Please refine your DoD if required (you cannot remove items!)

### Detailed statistics

Story	# Tasks	Points	Hours est.	Hours actual
<i>Uncategorized</i>	5	0	4d4h	4d4h
GetTiket	5	3	1d2h	1d4h5m
Call Customer	5	3	1d	7h
Next Customer	4	5	6h	6h

story *Uncategorized* is for technical tasks, leave out story points (not applicable in this case)

- Hours per task average, standard deviation (estimate and actual)

	Mean	StDev
Estimation	3,2	2.76
Actual	3,39	3.81

- Total estimation error ratio: sum of total hours spent / sum of total hours effort - 1

$$\frac{\sum_i \text{spent}_{\text{task}_i}}{\sum_i \text{estimation}_{\text{task}_i}} - 1 = 0,05$$

- Absolute relative task estimation error:  $\sum (\text{abs}(\text{spent}_{\text{task}_i} / \text{estimation}_{\text{task}_i} - 1)) / n$

$$\frac{1}{n} \sum_i \left| \frac{\text{spent}_{\text{task}_i}}{\text{estimation}_{\text{task}_i}} - 1 \right| = 0,18$$

## QUALITY MEASURES

- Unit Testing:
  - Total hours estimated = 6
  - Total hours spent = 2
  - Nr of automated unit test cases = 0
  - Coverage = 0
- E2E testing:
  - Total hours estimated = 0
  - Total hours spent = 0
  - Nr of test cases = 0
- Code review
  - Total hours estimated = 0
  - Total hours spent = 0

## ASSESSMENT

- What did go wrong in the sprint?  
We didn't define a working strategy, or some ticket management method.
  - We worked without any type of communication about implementation. We should use a better cooperation.
- What caused your errors in estimation (if any)
  - The inability to fully understand what our capabilities were.
- What lessons did you learn (both positive and negative) in this sprint?
  - We should use better communication method and define a working strategy. Also for all that concern tickets.
- Which improvement goals set in the previous retrospective were you able to achieve?
  - We don't know yet.
- Which ones you were not able to achieve? Why?
  - Define a common implementation strategy due to the knowledge gap in our team