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Metric chosen: Estimation Accuracy

Sprint 4 Data

Story Number	Original Estimate	Hours Logged at Completion
70	0	6
82	4	4
97	7	4.5
98	9	"Not Specified"

Sprint 5 Data

Story Number	Original Estimate	Hours Logged at Completion
96	8	14.5
99	12	11
100	2	0.5
101	3	2
102	4	2
103	3	3
104	3	8

Calculations

$(0-6) + (4-4) + (7-4.5) + (8-14.5) + (12-11) + (2-0.5) + (3-2) + (4-2) + (3-3) + (3-8) = 25.5$ hours deviated from original estimate.

Total estimated hours was 55.

$25.5 / 55 = 46.36\%$ estimation inaccuracy.

17.5 hours were over the original estimate, and 8 hours were under the original estimate.

Analysis

Overall, it looks like our team has over estimated our hours much more than we have under estimated the time needed to complete our work, having overestimated 17.5 hours and under estimated 8 hours. As shown in the calculations above, we have an estimation inaccuracy of 46.36%. Although this is a poor rating, it is not only our first couple sprints of development, but the poor performance may be attributed to a couple of factors discussed below.

It looks like a couple of factors may have played into these results that could be giving an inaccurate representation of our estimation accuracy. Failure to report hours worked and incorrectly reporting hours seem to be two major sources of inaccuracy. For example, story number 98 in sprint 4 had an original time estimate of 9 hours, was marked as having 2 hours remaining, had an "hours logged" value of "Not specified," and was still marked as being "done." It is probable that the assignee of this story forgot to log any hours worked, but instead just changed the hours remaining to 2. This is an example of incorrectly logged hours, and was not counted towards the statistic computed. In addition, story number 70 had an original estimate of 0 hours, and had 6 hours logged. Because two values were given for the two categories, this piece of data was included in the statistic, but is most likely skewing the data because of the original estimate of 0 hours.

Going forward, in order to not only improve at estimating the amount of time we need to complete tasks, but also give more accurate data on time estimates, we need to report all of hours worked and we need to report them in the correct way. This will ensure that all work logged is added to our estimate accuracy statistics, and that those estimates in and of themselves are accurate.