

SWE20001: Managing Software Projects

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Is the actual effort within 10% of original estimate?

Here the answer is both yes and no depending on the effect of “pair programming”.

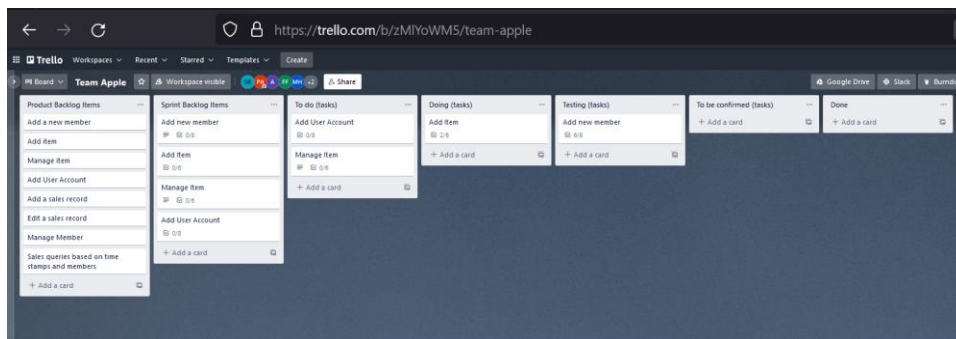
In the previous 61C task, I had come to the conclusion that by implementing pair programming, the task would take around 20hrs. Now, whilst this still hasn't been proven wrong, it hasn't been proven right either. That's because here, during this sprint, pair programming technique had not been used. Instead, this task had been done by a single person only, taking around 9hrs to complete (with majority of the time being used up in coming up with logic, cross-checking with similar solutions online, troubleshooting and correcting errors, improving the code to fit the “Definition of Done” conditions, thinking up and checking for all test cases, etc.).

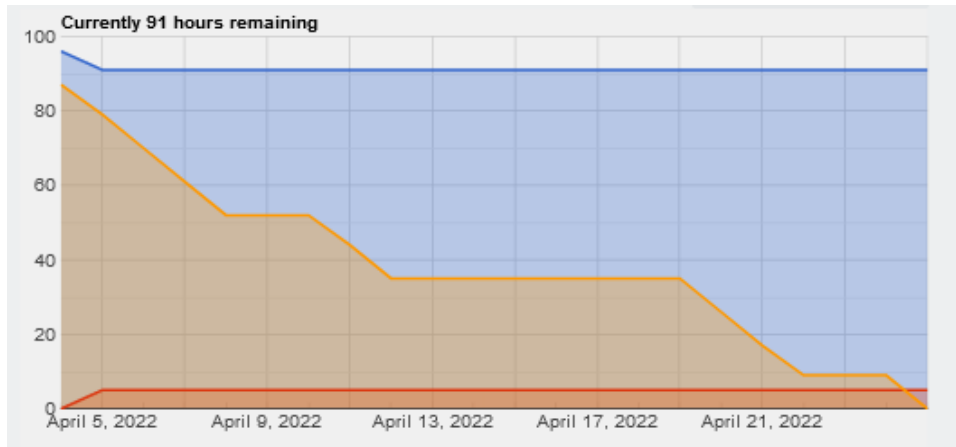
Thus, considering the fact that the total estimation time without “pair programming” was 10hrs initially, it can be said that yes, it is within 10% of original estimate.

But, if estimated time is considered including the “pair programming” time, then no it is not within 10% of estimated time. Instead, it has been completed in less than 50% of the time allocated.

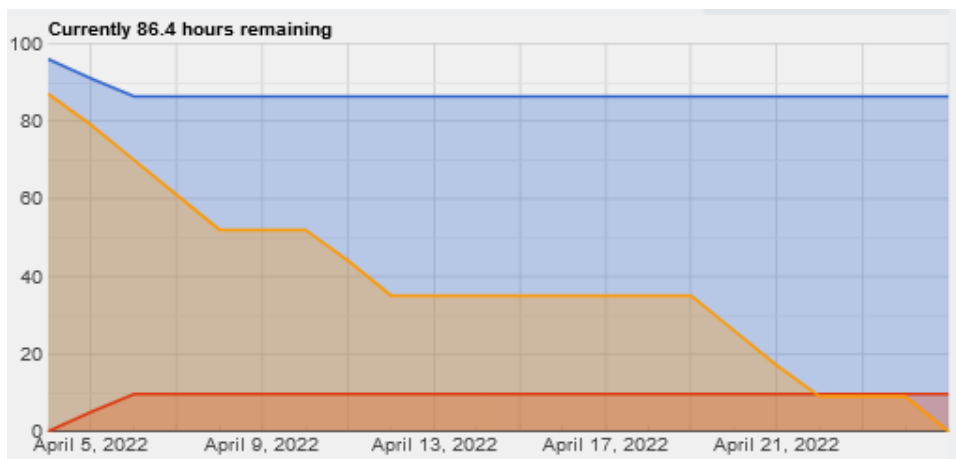
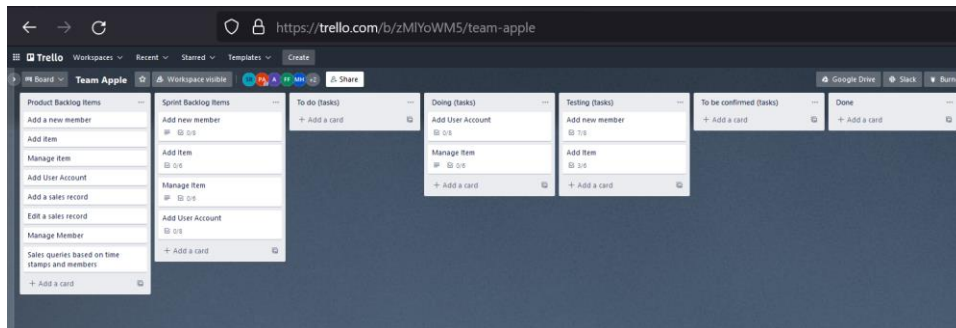
Proof of Validity via screenshots:

- On day-2: Approximately 2hr had been spent on the Add Item task to finish working on 2 of 6 subtasks.

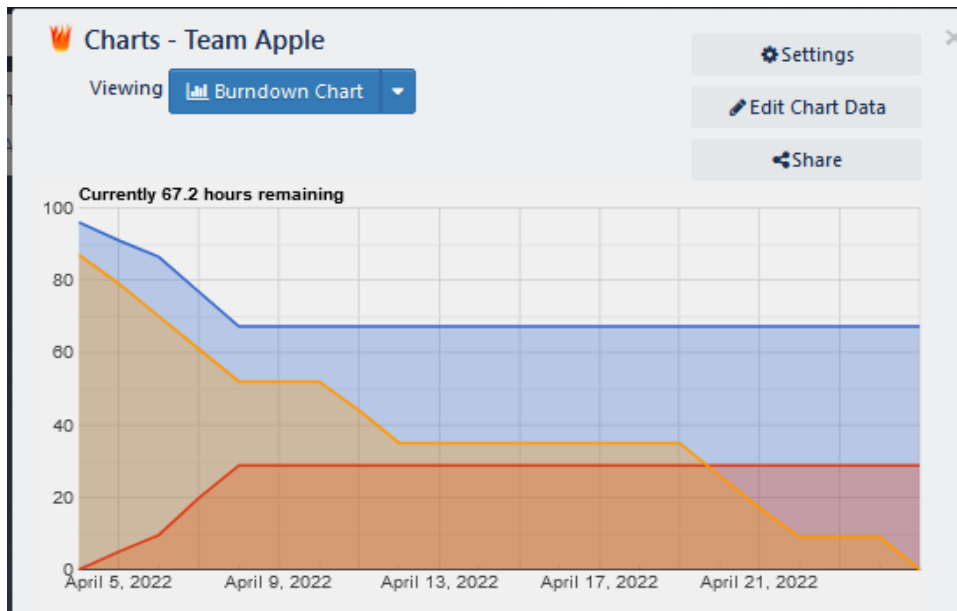
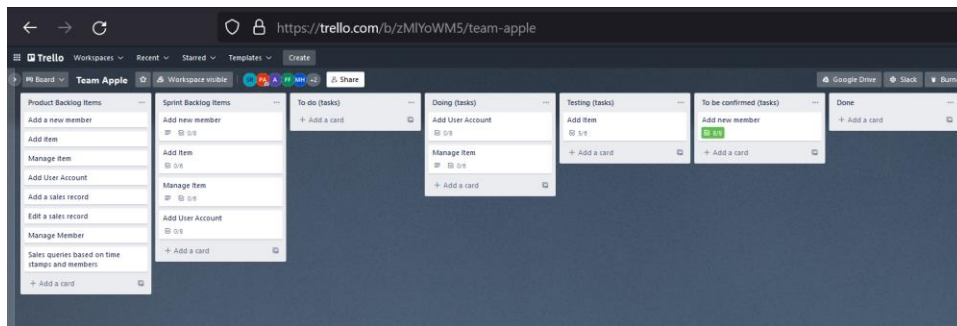




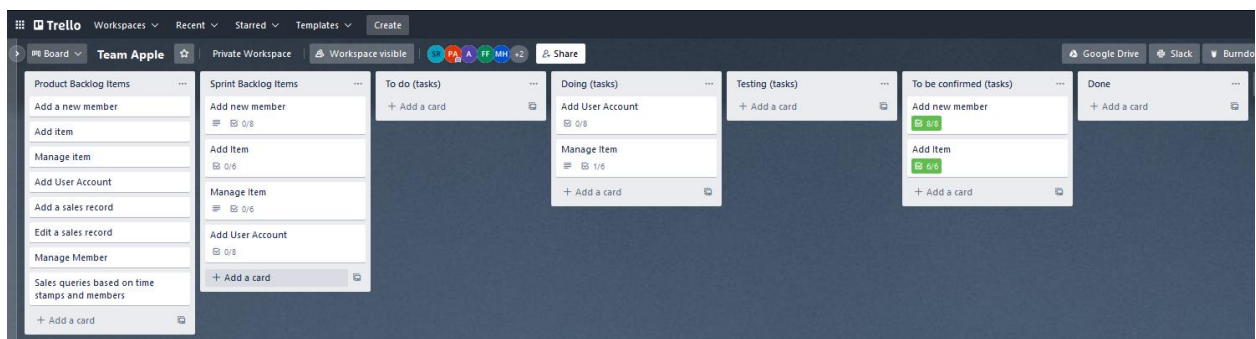
- On day-3: About 1hr had been spend on the task by working on another of its subtask

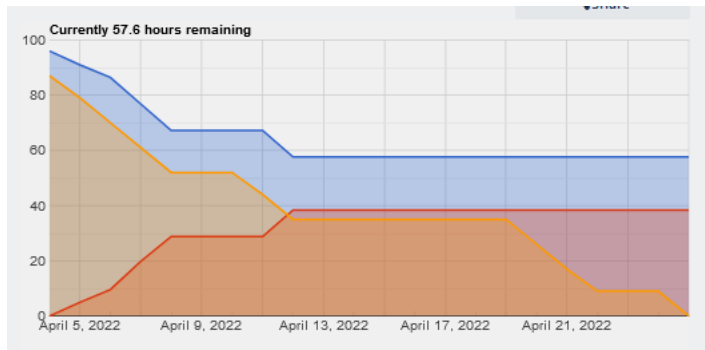


- On day-5: Around 4 hr had been spent on the task finishing almost all the subtasks remaining in it, alongside vigorously testing and troubleshooting the errors that had popped up.



- On day-6: about 2hrs had been spent on the task, finishing the final sub tasks and providing final touches before putting it as to be confirmed.





So, cumulative time spent on it over days had been: $2+1+4+2$ which results in **9** hrs time.