

Estimation Method

Credit task 63C



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Tutorial: Tuesday 12:30 Hawthorn EN310

Selected backlog item

No.	Item	Dependencies	Business Value (1 least – 10 most)	Release Schedule (Sprint 1 2)
F1	Add a new member (remake in PHP)	-	10	Sprint 2

Estimation method: Estimation by size comparison

Selected backlog item	Comparable backlog item
Sprint 02 F1- Add a new member (remake in PHP)	Sprint 01 F1 - Add a new member
Estimated time: 30 minutes	Measured actual time: 120 minutes

Explanation:

To estimate the time needed to develop selected backlog item F1 Add a new member (remake in PHP) for sprint 2 estimation by size comparison method is employed. In addition to this comparing the sprint 2 backlog item to F1 Add new members from sprint 1, which is essentially the identical backlog item but sprint 2 backlog is a remastering of the sprint 1 backlog item converting the code from Java to PHP. This is because during completing sprint 1 respective the management team decided to change the code from java to PHP as more team members had experience with PHP. Hence already completed backlog items from sprint 1 were moved to sprint 2 backlogs re-labelling them to be converted into PHP. Consequently, F1 from sprint 2 simply has a different coding language which would lead to a different time estimation. Therefore using the comparison by size estimation method the following can be concluded.

During sprint 1 the backlog item F1 Add new member had a development time of **120 minutes**. This included creating the **60 minutes** for developing UML and sequence diagrams, and also another **60 minutes** to program the add member feature coding in Java. Thus using the time estimation method and taking into account that F1 from sprint 1 took **120 minutes** to complete, it can be estimated that F1 Add a new member (remake in PHP) from sprint 2 would take $\frac{1}{4}$ of the estimated time of F1 from sprint 1. Due to $\frac{1}{4}$ of the programming materials such as the UML, block diagram and hierarchy diagram have been already done previously, which just leaves the backlog item task itself to be simply changing the language of the feature. Therefore F1 from sprint 2 would have an estimated time of **30 minutes approx.**

Sprint 01 F1 - Add a new member [2 hours] → Sprint 02 F1- Add a new member (remake in PHP) [$\frac{1}{4}$ ET]
Estimated Time = 30 minutes

Image citation:

Bell, M., 2022. The Difference Between Parametric vs Analogous Estimating PMP - Project Management Academy Resources. [online] Project Management Academy Resources. Available at:<<https://projectmanagementacademy.net/resources/blog/the-difference-between-parametric-vs-analogous-estimating-pmp/>> [Accessed 6 May 2022].