

SWE20001: Managing Software Projects

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Effort Estimation of Sprint-2 backlog Item “Add Sales record” using Estimation by analogy:

Here, I have chosen this Sprint-2 backlog item as it is extremely similar to “Add Item” with the only difference being in the tables and the data stored in each.

Furthermore, I have decided to use “Estimation by analogy” and not the other two as here, there is an extremely high level of similarity present between the two backlog items, making the mentioned method quite suitable for the task.

Whilst it is true that the other two methods can be used for it, it is not appropriate here. That’s because:

- a) For “estimation by Size comparison”, it uses relative size of tasks to find the relative times they will take. Thus, its main benefit lies in fact that it can estimate times for dissimilar items and so isn’t really needed for this case as the tasks are far too similar.

- b) For “estimation by Delphi”, its mainly used the help of a group experts who each have done related work before to provide individual estimates, before combining them and using them as basis for the estimation. So, its main benefit lies in handling estimates for unknown tasks where only the experts have the necessary knowledge and experience about the task, not us. But here, we are doing estimates for a very similar task that we had done before and thus taking experts help on something so simple feels more like wasted effort/ resource.

The process:

Add Item (previous sprint backlog item)

Create Table: 2hr

Design Backend Logic: 1hr

Test Backend Logic: 3hr

Design Front end/ GUI/ Client View for adding Item: 1hr

Test GUI for the front end: 2hr

Thus, for “Add Sales record” it will be similar to the following:

Create Table: 2hr

Design Backend Logic: 1hr

Test Backend Logic: 3hr

Design Front end/ GUI/ Client View for adding Sales record: 1hr

Test GUI for the front end: 2hr

Thus sales record will take 9hrs of effort in total. But it is good practice to some lee-way time for “just in case” type scenarios. Thus for that, it is better to keep 1 hr as spare, rounding it up to 10hrs for estimation for “Adding the Sales record”.