Software methodologies

Agile methodologies - Exercise solutions

Exercise 1:

In this video you have a summary of Scrum methodology. After watching it, try to answer these questions:

Solution:

1. What is a *sprint* in Scrum?

A *sprint* is every iteration of the development process

2. Who is in charge of prioritizing the tasks to do in every *sprint*?

The development team

3. How can the final delivery date of a *sprint* be calculated?

We can calculate it by adding the estimated time for every user story included in this sprint. Besides, we can use a *burndown chart* to calculate the current estimation and see how far/near we are from our initial estimation.

Exercise 2:

In this video you have an example of Kanban methodology. Try to answer to these questions after watching it:

Solution:

1. What is the main function of WIP limits? What happens when we try to move a task to a column that exceeds this limit?

They should be set so that the work flows as smoothly and consistently as possible. If the team runs into a problem, WIP limits will show a bottleneck that requires the collaboration of (maybe) the whole team in order to solve it and keep the work flowing.

2. How can Kanban and Scrum be combined? Which is the main purpose of adding Scrum to Kanban?

Scrum provides the structure for organizing feedback, short-term planning and other organizational improvements, as Kanban focuses on day-to-day development.