

Assignment 2: Value Stream Mapping (Group 14)

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Abstract: Value stream mapping is one of the method in Lean development for visualizing the product flow and identify waste and support to eliminate the waste for continuous improvement. This document is an assignment on Value stream mapping for a software product development to view how value is added in the process.

Value Stream Mapping (VSM)

In Lean software development, eliminating waste is one of the core principle and is supported by the Value Stream Mapping (VSM). Eliminate the waste stop doing things that doesn't add value to customer or customers don't value. Anything that drains time, effort or money without adding customer value is waste. Value stream is flow of activities that start with customer requirements and ends when customer requirements are delivered. Rather to have detailed consider the process or activities (Value stream Mapping (VSM) gives a top-level view over the development processes. Waste can be seen from the following elements[1][2][3].

- Partially completed work
- Extra processes
- Extra features
- Delays
- Defects
- Task switching
- Relearning

When the value is created, the task of finding the waste is to be initiated. List all the activities and process from the customer required feature is identified and until the customer finds value from that feature. Next is identify the waste and eliminate them.

Metrics

There are two key metrics related with Value stream mapping. They are Value added and Non- value added. Cycle Time (C/T) and Process Cycle Efficiency(PCE) are calculated based on this two metrics[4][5].

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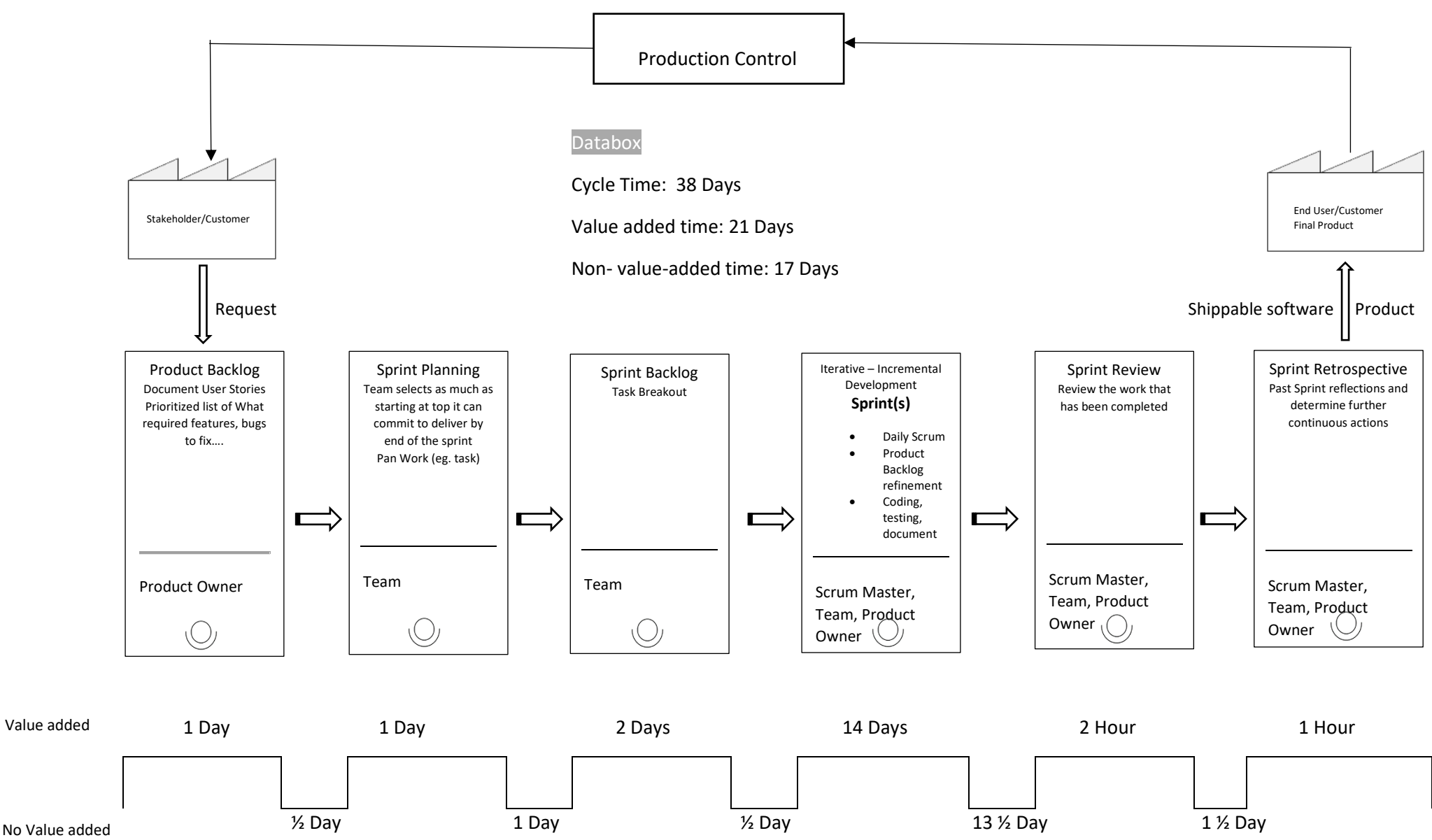


Fig 1. Value Stream Mapping, Software product Development

Process Cycle Efficiency = Value-Added Time / Cycle Time
= 55.2 %

References

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