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Do Work in Progress (WIP) - Limit in Agile Software Development Matter?

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Abstract

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Preface

Part I

Introduction

In the field of WIP and if WIP matters in software development, lacks proper research, but Giulio Concas and Hongyu Zhang has done research on the difference between limit WIP and unlimited WIP (Concas et al., 2013).

Work in progress is a tool that helps teams limits their tasks by specifying how many tasks a developer can be assigned to at once. WIP helps team to reduce overhead, decrease leadtime and increase throughput

How to find the best WIP in a given interval and context also lacks proper research, but in manufacture business some research has been done. Taho Yanga, Hsin-Pin Fub, Kuang-Yi Yanga stated that WIP could be defined as; $WIP = \text{cycle time} * \text{throughput rate}$ in manufacture business (Taho Yanga and Yanga, 2007).

Chapter 1

Background

"We can define Kanban software process as a WIP limited pull system visualized by the Kanban board" (Anderson et al., 2011).

Part II

The project

Chapter 2

Planning the project

Part III

Conclusion

Chapter 3

Results

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